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**Table 1. The Colorado Model Content Standards and Subcontent Areas**

<b>Reading</b>		
<b>Content Standards</b>		
CS	Grades	
1	3-10	Reading Comprehension
4	4-10	Thinking Skills
5	4-10	Use of Literary Information
6	4-10	Literature
<b>Subcontent Areas</b>		
SA	Grades	
1	7-10	Fiction
2	3-10	Nonfiction
3	3-10	Vocabulary
4	7-10	Poetry
1/4	3-6	Fiction and Poetry
<b>Writing</b>		
<b>Content Standards</b>		
CS	Grades	
2	3-10	Write for a Variety of Purposes
3	3-10	Write Using Conventions
<b>Subcontent Areas</b>		
SA	Grades	
5	3-10	Paragraph Writing
6	4-10	Extended Writing
7	3-10	Grammar and Usage
8	3-10	Mechanics
<b>Mathematics</b>		
<b>Content Standards</b>		
CS	Grades	
1	3-6	Number Sense
2	4-10	Algebra, Patterns, and Functions
2/3	3	Algebra, Patterns, and Functions / Statistics and Probability
3	4-10	Statistics and Probability
4/5	3-10	Geometry and Measurement
6	3-6	Computational Techniques
1/6	7-10	Number Sense and Computational Techniques

**Table 1. The Colorado Model Content Standards and Subcontent Areas (cont'd)**

<b>Mathematics (Continued)</b>		
<b>Subcontent Areas</b>		
SA	Grades	
1	4-6	Number and Operation Sense
1	7	Number Sense
1	8	Linear Pattern Representation
1	9	Multiple Representations of Linear/Nonlinear Functions
1	10	Multiple Representations of Functions
2	4-6	Patterns
2	7	Area and Perimeter Relationships
2	8-9	Proportional Thinking
2	10	Probability and Counting Techniques
3	4	Measurement
3	5	Data Displays
3	6 and 8	Geometry



**Table 2. Configuration of 2014 TCAP Assessments**

Content Area	Grade	Maximum Possible Points	Total # of Items			Frequency of CR Items with the Given Number of Maximum Points			
			MC	CR	Total	1	2	3	4
Reading	3	52	32	8	40		4	4	
	4 <sup>*1</sup>	90	55	14	69		7	7	
	5 <sup>*2</sup>	90	55	14	69		7	7	
	6	91	56	14	70		7	7	
	7	91	56	14	70		8	5	1
	8 <sup>*3</sup>	90	55	14	69		7	7	
	9 <sup>*4</sup>	94	55	14	69		3	11	
	10 <sup>*5</sup>	93	54	14	68		4	9	1
Writing	3	56	35	18	53	15	3		
	4	69	40	13	53	7	1		5
	5	69	40	13	53	7	1		5
	6	69	40	13	53	7	1		5
	7	69	40	13	53	7	1		5
	8	69	40	13	53	7	1		5
	9 <sup>*6</sup>	67	38	13	51	7	1		5
	10 <sup>*7</sup>	68	39	13	52	7	1		5
Mathematics	3	50	32	8	40		6	2	
	4	96	54	15	69		6	6	3
	5	96	54	15	69		6	6	3
	6	87	45	15	60		6	6	3
	7 <sup>*8</sup>	86	44	15	59		6	6	3
	8 <sup>*9</sup>	85	43	15	58		6	6	3
	9 <sup>*10</sup>	86	44	15	59		6	6	3
	10	87	45	15	60		6	6	3
Reading Spanish	3	52	32	8	40		4	4	
Spanish	4	91	56	14	70		7	7	
Writing Spanish	3	56	35	18	53	15	3		
Spanish	4	69	40	13	53	7	1		5

\*Content area in which item(s) were removed from calibration. Count shown in this table does not include removed items.

1. 1 MC item removed
2. 1 MC item removed
3. 1 MC item removed
4. 1 MC item removed
5. 2 MC items removed
6. 2 MC items removed
7. 1 MC item removed
8. 1 MC item removed
9. 2 MC items removed
10. 1 MC item removed

**Table 3. Configuration of 2014 TCAP Reading Assessments by Grade, Content Standard, Subcontent Area, and Item Type**

Grade	Content Area	Item Type	Content Standard								Subcontent Area									
			1		4		5		6		1		1/4		2		3		4	
			No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.
3	Reading	MC	32	32									10	10	9	9	13	13		
		CR	8	20										5	13	3	7			
4	Reading <sup>*1</sup>	MC	23	23	10	10	13	13	9	9			19	19	10	10	13	13		
		CR	6	14	3	8	2	4	3	9			9	23	3	8				
5	Reading <sup>*2</sup>	MC	18	18	15	15	15	15	7	7			23	23	9	9	8	8		
		CR	6	13	2	5	2	5	4	12			9	22	3	8				
6	Reading	MC	26	26	7	7	16	16	7	7			17	17	13	13	10	10		
		CR	2	5	5	13	2	4	5	13			6	15	6	16				
7	Reading	MC	18	18	12	12	18	18	8	8	12	12			9	9	9	9	8	8
		CR	5	13	3	8	1	2	5	12	5	11			6	16			2	6
8	Reading <sup>*3</sup>	MC	17	17	13	13	13	13	12	12	17	17			6	6	11	11	8	8
		CR	6	14	2	6	3	7	3	8	2	5			7	18			2	5
9	Reading <sup>*4</sup>	MC	18	18	12	12	15	15	10	10	15	15			8	8	10	10	7	7
		CR	5	14	3	9	2	6	4	10	4	11			5	14			3	8
10	Reading <sup>*5</sup>	MC	17	17	15	15	12	12	10	10	14	14			8	8	9	9	11	11
		CR	5	15	2	6	3	8	4	10	5	14			4	12			2	5
3	Spanish Reading	MC	32	32									13	13	7	7	12	12		
		CR	8	20									5	11	3	9				
4	Spanish Reading	MC	27	27	11	11	10	10	8	8			18	18	17	17	11	11		
		CR	4	10	3	7	3	8	4	10			8	20	3	7				

\* Content area in which item(s) were removed from the calibration. Counts shown in this table do not include removed items.

1. Removed one MC item from calibration in CS5.c
2. Removed one MC item from calibration in CS6.c SA 1/4FP
3. Removed one MC item from calibration in CS4.a SA 2NF
4. Removed one MC item from calibration in CS6.b SA 1F
5. Removed two MC items from calibration, one in CS 5c and one in CS6b SA 1F

**Table 4. Configuration of 2014 TCAP Writing Assessments by Grade, Content Standard, Subcontent Area, and Item Type**

Grade	Content Area	Item Type	Content Standard				Subcontent Area							
			2		3		5		6		7		8	
			No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.
3	Writing	MC	12	12	23	23	6	6			14	14	9	9
		CR	9	12	9	9	12	15			3	3	3	3
4	Writing	MC	15	15	25	25	9	9			12	12	13	13
		CR	6	21	7	8	3	12	4	11	3	3	3	3
5	Writing	MC	15	15	25	25	9	9			16	16	13	13
		CR	6	21	7	8	3	12	4	11	3	3	3	3
6	Writing	MC	15	15	25	25	9	9			18	18	11	11
		CR	6	21	7	8	3	12	4	11	2	2	4	4
7	Writing	MC	15	15	25	25	8	8			23	23	6	6
		CR	6	21	7	8	3	12	4	11	2	2	4	4
8	Writing	MC	15	15	25	25	8	8			24	24	5	5
		CR	6	21	7	8	3	12	4	11	3	3	3	3
9	Writing <sup>*1</sup>	MC	14	14	24	24	9	9			19	19	7	7
		CR	6	21	7	8	3	12	4	11	3	3	3	3
10	Writing <sup>*2</sup>	MC	15	15	24	24	11	11			21	21	6	6
		CR	6	21	7	8	3	12	4	11	2	2	4	4
3	Spanish Writing	MC	12	12	23	23					17	17	7	7
		CR	9	12	9	9	12	15			3	3	3	3
4	Spanish Writing	MC	13	13	27	27	6	6			15	15	12	12
		CR	6	21	7	8	3	12	4	11	4	4	2	2

\* Content area in which item(s) were removed from the calibration. Counts shown in this table do not include removed items.

1. Removed two MC items from calibration one in CS3.c SA 7GU and one in CS2b2 SA 5PW

2. Removed one MC item from calibration in CS3.b SA7GU

**Table 5. Configuration of 2014 TCAP Mathematics Assessments by Grade, Content Standard, Subcontent Area, and Item Type**

Grade	Content Area	Item Type	Content Standard												Subcontent Area							
			1		1/6		2		2/3		3		4/5		6		1		2		3	
			No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.	No. of Items	Total Pts.
3	Mathematics	MC	6	6					9	9			12	12	5	5						
		CR	2	4					2	4			2	5	2	5						
4	Mathematics	MC	10	10		6	6			9	9	17	17	12	12	9	9	6	6	6	6	
		CR	4	10		3	8			2	5	4	12	2	7	5	14	3	8	2	5	
5	Mathematics	MC	14	14		8	8			7	7	11	11	14	14	13	13	6	6	6	6	
		CR	2	5		4	11			4	12	3	9	2	5	3	8	4	11	3	9	
6	Mathematics	MC	10	10		7	7			7	7	12	12	9	9	6	6	6	6	6	6	
		CR	2	7		3	10			4	11	4	10	2	4	4	11	3	10	2	5	
7	Mathematics <sup>1</sup>	MC			15	15	8	8			9	9	12	12			3	3	7	7		
		CR			4	11	3	8			3	9	5	14			4	13	4	12		
8	Mathematics <sup>2</sup>	MC			11	11	10	10			9	9	13	13			5	5	5	5	7	7
		CR			4	11	4	11			3	8	4	12			5	13	4	10	2	7
9	Mathematics <sup>3</sup>	MC			10	10	12	12			11	11	11	11			5	5	6	6		
		CR			3	7	5	14			4	11	3	10			2	7	4	12		
10	Mathematics	MC			12	12	13	13			10	10	10	10			5	5	4	4		
		CR			2	5	5	14			4	11	4	12			6	19				

\* Content area in which item(s) were removed from the calibration. Counts shown in this table do not include removed items.

1. Removed one MC item from calibration in CS 2
2. Removed two MC items from calibration, one in CS 4/5 SA 3G, one in CS 2 SA 1LPR
3. Removed one MC item from calibration in CS 4/5

**Table 6. Percentage of Items in Depth of Knowledge Levels**

Content Area	Grade	DOK Level						Number of Items in Test
		1		2		3		
		MC	CR	MC	CR	MC	CR	
Reading	3	35%	0%	45%	13%	0%	8%	40
	4	19%	0%	52%	7%	9%	13%	69
	5	12%	0%	57%	10%	12%	10%	69
	6	17%	0%	59%	7%	4%	13%	70
	7	14%	1%	53%	7%	13%	11%	70
	8	12%	1%	51%	7%	17%	12%	69
	9	17%	1%	48%	1%	14%	17%	69
	10	7%	0%	53%	6%	19%	15%	68
Writing	3	45%	11%	19%	0%	2%	23%	53
	4	51%	13%	23%	0%	2%	11%	53
	5	40%	13%	28%	0%	8%	11%	53
	6	43%	13%	26%	0%	6%	11%	53
	7	40%	13%	25%	0%	11%	11%	53
	8	30%	13%	34%	0%	11%	11%	53
	9	27%	14%	35%	0%	12%	12%	51
	10	25%	13%	37%	0%	13%	12%	52
Mathematics	3	28%	0%	50%	15%	3%	5%	40
	4	28%	0%	46%	14%	4%	7%	69
	5	26%	0%	51%	12%	1%	10%	69
	6	15%	0%	60%	15%	0%	10%	60
	7	14%	0%	56%	12%	5%	14%	59
	8	19%	0%	47%	14%	9%	12%	58
	9	15%	0%	58%	17%	2%	8%	59
	10	15%	0%	53%	15%	7%	10%	60
Spanish	3	0%	0%	80%	20%	0%	0%	40
Reading	4	33%	1%	39%	16%	9%	1%	70
Spanish	3	66%	17%	0%	17%	0%	0%	53
Writing	4	64%	13%	11%	9%	0%	2%	53

**Table 7. Percentage of Score Points in Depth of Knowledge Levels**

Content Area	Grade	DOK Level						Total Number of Points in Test
		1		2		3		
		MC	CR	MC	CR	MC	CR	
Reading	3	27%	0%	35%	23%	0%	15%	52
	4	14%	0%	40%	12%	7%	27%	90
	5	9%	0%	43%	18%	9%	21%	90
	6	13%	0%	45%	13%	3%	25%	91
	7	11%	2%	41%	14%	10%	22%	91
	8	9%	2%	39%	13%	13%	23%	90
	9	13%	3%	35%	3%	11%	35%	94
	10	5%	0%	39%	13%	14%	29%	93
Writing	3	43%	11%	18%	0%	2%	27%	56
	4	39%	10%	17%	0%	1%	32%	69
	5	30%	10%	22%	0%	6%	32%	69
	6	33%	10%	20%	0%	4%	32%	69
	7	30%	10%	19%	0%	9%	32%	69
	8	23%	10%	26%	0%	9%	32%	69
	9	21%	10%	27%	0%	9%	33%	67
	10	19%	10%	28%	0%	10%	32%	68
Mathematics	3	22%	0%	40%	26%	2%	10%	50
	4	20%	0%	33%	27%	3%	17%	96
	5	19%	0%	36%	19%	1%	25%	96
	6	10%	0%	41%	29%	0%	20%	87
	7	9%	0%	38%	19%	3%	30%	86
	8	13%	0%	32%	24%	6%	26%	85
	9	10%	0%	40%	29%	1%	20%	86
	10	10%	0%	37%	26%	5%	22%	87
Spanish Reading	3	0%	0%	62%	39%	0%	0%	52
	4	25%	2%	30%	34%	7%	2%	91
Spanish Writing	3	63%	16%	0%	21%	0%	0%	56
	4	49%	12%	9%	29%	0%	1%	69

**Table 8. Previously Administered Items Selected for 2014 Test Forms that were Flagged for DIF or Fit**

Language	Content Area	Grade	Item Type	2014 Item	2014 Anchor	Year Flagged	DIF Flag*	Fit Flag*
English	Reading	3	CR	4		2013	0	1
English	Reading	3	CR	13		2013	0	1
English	Reading	4	CR	35		2013	0	1
English	Reading	4	MC	38		2013	0	1
English	Reading	4	CR	42		2013	E	0
English	Reading	4	CR	45		2013	E	0
English	Reading	6	CR	6		2012	E	0
English	Reading	6	MC	44	Yes	2013	0	1
English	Reading	6	CR	49		2013	E	0
English	Reading	7	CR	47		2012	E	0
English	Reading	8	CR	26		2013	E	0
English	Reading	8	MC	47		2012	0	1
English	Reading	8	CR	48		2012	E	0
English	Reading	9	CR	26		2013	E	0
English	Reading	9	MC	95	Yes	2012	E	0
English	Reading	9	CR	96		2012	E	0
English	Reading	9	CR	112		2012	E	0
English	Reading	10	CR	13		2012	E, G	0
English	Reading	10	CR	27		2013	0	1
English	Reading	10	CR	30		2013	0	1
English	Reading	10	CR	31		2013	E	0
English	Reading	10	CR	35		2013	E	0
English	Reading	10	CR	38		2013	E	0
English	Reading	10	CR	47		2012	E	0
English	Reading	10	CR	51		2012	E	0
English	Reading	10	CR	104		2012	E	0
English	Writing	3	MC	38		2013	E	0
English	Writing	4	CR	3A		2013	0	1
English	Writing	4	MC	72	Yes	2013	E	0
English	Writing	4	MC	78		2013	E	0
English	Writing	4	CR	95		2013	0	1
English	Writing	5	CR	3A		2013	0	1
English	Writing	5	CR	74		2013	G	0
English	Writing	5	CR	116		2012	G	0
English	Writing	6	CR	3A		2013	0	1
English	Writing	6	CR	73		2012	G	0
English	Writing	6	MC	81	Yes	2012	E	0
English	Writing	6	CR	97		2012	G	1
English	Writing	7	CR	3A		2013	E, G	1
English	Writing	7	CR	3B		2013	G	0
English	Writing	7	CR	70		2012	G	0
English	Writing	7	MC	86	Yes	2013	E	0

\* 0=No Flag; E=Flagged for Ethnicity; G=Flagged for Gender; 1=Flagged for Fit

**Table 8. Previously Administered Items Selected for 2014 Test Forms that were Flagged for DIF or Fit (cont'd)**

Language	Content Area	Grade	Item Type	2014 Item	2014 Anchor	Year Flagged	DIF Flag*	Fit Flag*
English	Writing	7	CR	95		2012	0	1
English	Writing	8	CR	3A		2013	0	1
English	Writing	8	CR	75		2012	G	0
English	Writing	8	MC	91	Yes	2012	E	0
English	Writing	8	CR	116		2012	G	0
English	Writing	9	CR	2D		2013	E	0
English	Writing	9	CR	2E		2013	E	0
English	Writing	9	CR	3A		2013	0	1
English	Writing	9	CR	72		2012	E, G	0
English	Writing	9	CR	116		2012	E	1
English	Writing	10	MC	67	Yes	2012	E	0
English	Writing	10	CR	71		2012	E, G	0
English	Writing	10	CR	116		2013	E, G	0
English	Mathematics	4	CR	5		2013	0	1
English	Mathematics	4	MC	17		2012	E	0
English	Mathematics	5	CR	20		2012	E	0
English	Mathematics	5	CR	23		2012	0	1
English	Mathematics	5	CR	41		2012	E	0
English	Mathematics	5	CR	46		2013	E	0
English	Mathematics	5	CR	52		2013	0	1
English	Mathematics	6	CR	4		2012	0	1
English	Mathematics	6	CR	8		2013	0	1
English	Mathematics	6	MC	19		2013	0	1
English	Mathematics	6	CR	52		2012	E	0
English	Mathematics	7	CR	3		2013	E	0
English	Mathematics	7	MC	14		2013	0	1
English	Mathematics	7	CR	26		2012	0	1
English	Mathematics	7	CR	40		2013	E	0
English	Mathematics	8	CR	14		2013	E	0
English	Mathematics	8	CR	34		2012	E	0
English	Mathematics	8	CR	53		2013	0	1
English	Mathematics	9	CR	20		2013	E	0
English	Mathematics	9	MC	41		2013	E	0
English	Mathematics	9	CR	44		2013	0	1
English	Mathematics	9	MC	49		2012	0	1
English	Mathematics	9	CR	60		2013	E	1
English	Mathematics	10	CR	2		2013	E	0
English	Mathematics	10	MC	5		2013	E	0
English	Mathematics	10	MC	21	Yes	2012	E	0
English	Mathematics	10	CR	36		2013	E	0
English	Mathematics	10	CR	42		2013	E	0
English	Mathematics	10	MC	50		2012	0	1

\* 0=No Flag; E=Flagged for Ethnicity; G=Flagged for Gender; 1=Flagged for Fit



**Table 8. Previously Administered Items Selected for 2014 Test Forms that were Flagged for DIF or Fit (cont'd)**

Language	Content Area	Grade	Item Type	2014 Item	2014 Anchor	Year Flagged	DIF Flag*	Fit Flag*
English	Mathematics	10	CR	54		2013	E	0
Spanish	Reading	3	CR	1		2007, 2008	0	1
Spanish	Reading	3	MC	7	yes	2004	0	1
Spanish	Reading	3	MC	14		2007	0	1
Spanish	Reading	3	MC	20	yes	2007	0	1
Spanish	Reading	3	MC	24	yes	2008	0	1
Spanish	Reading	3	CR	26		2002, 2003, 2006	0	1
Spanish	Reading	3	CR	32		2008	0	1
Spanish	Reading	3	CR	36		2008	0	1
Spanish	Reading	4	MC	15	yes	2005	0	1
Spanish	Reading	4	MC	19	yes	2008	0	1
Spanish	Reading	4	MC	21	yes	2008	0	1
Spanish	Reading	4	MC	23	yes	2004	0	1
Spanish	Reading	4	MC	26		2003, 2008	0	1
Spanish	Reading	4	MC	28	yes	2005, 2007	0	1
Spanish	Reading	4	MC	32		2008	0	1
Spanish	Reading	4	MC	38		2008	0	1
Spanish	Reading	4	MC	40		2008	0	1
Spanish	Reading	4	CR	42		2008	0	1
Spanish	Reading	4	CR	44		2004, 2008	0	1
Spanish	Reading	4	MC	46		2008	0	1
Spanish	Reading	4	MC	48		2004	0	1
Spanish	Reading	4	MC	92		2003, 2004	0	1
Spanish	Reading	4	MC	93	yes	2008	0	1
Spanish	Reading	4	MC	94		2003	0	1
Spanish	Reading	4	MC	95	yes	2008	0	1
Spanish	Reading	4	MC	102		2008	0	1
Spanish	Reading	4	MC	103		2008	0	1
Spanish	Reading	4	MC	107	yes	2005	0	1
Spanish	Reading	4	MC	110		2008	0	1
Spanish	Reading	4	MC	111		2008	0	1
Spanish	Reading	4	MC	113		2004	0	1
Spanish	Reading	4	MC	114		2008	0	1
Spanish	Writing	3	MC	6		2008	0	1

\* 0=No Flag; E=Flagged for Ethnicity; G=Flagged for Gender; 1=Flagged for Fit

**Table 8. Previously Administered Items Selected for 2014 Test Forms that were Flagged for DIF or Fit (cont'd)**

Language	Content Area	Grade	Item Type	2014 Item	2014 Anchor	Year Flagged	DIF Flag*	Fit Flag*
Spanish	Writing	3	CR	27A		2007	0	1
Spanish	Writing	3	MC	34		2004	0	1
Spanish	Writing	4	CR	2F		2008	0	1
Spanish	Writing	4	CR	3A		2005	0	1
Spanish	Writing	4	MC	52	yes	2005	0	1
Spanish	Writing	4	MC	55	yes	2005	0	1
Spanish	Writing	4	MC	57		2008	0	1
Spanish	Writing	4	MC	58		2008	0	1
Spanish	Writing	4	MC	60		2008	0	1
Spanish	Writing	4	MC	61		2005	0	1
Spanish	Writing	4	MC	65	yes	2005	G	0
Spanish	Writing	4	MC	71	yes	2004	0	1
Spanish	Writing	4	MC	74		2004, 2008	0	1
Spanish	Writing	4	MC	75		2008	0	1
Spanish	Writing	4	MC	76		2005, 2008	0	1
Spanish	Writing	4	MC	79		2004, 2008	0	1
Spanish	Writing	4	MC	83		2008	0	1
Spanish	Writing	4	MC	85		2004	0	1
Spanish	Writing	4	MC	87		2008	0	1
Spanish	Writing	4	MC	89		2008	0	1

\* 0=No Flag; E=Flagged for Ethnicity; G=Flagged for Gender; 1=Flagged for Fit

**Table 9. Lowest and Highest Obtainable Scale Scores for the TCAP Assessments**

Content Area	Grade	LOSS	HOSS
Reading	3	150	795
	4	180	940
	5	220	955
	6	260	970
	7	300	980
	8	330	990
	9	350	995
	10	370	999
Writing	3	150	680
	4	190	730
	5	220	780
	6	230	840
	7	240	890
	8	250	910
	9	260	930
	10	270	950
Mathematics	3	150	700
	4	180	780
	5	220	800
	6	240	830
	7	280	860
	8	310	890
	9	340	920
	10	370	950
Reading Spanish	3	300	740
	4	300	790
Writing Spanish	3	250	750
	4	300	790

**Table 10. Rater Reliability Statistics – Reading**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
3	4	3130	2	1.01	1.01	0.66	0.66	0.68	78.82	20.35	99.17
3	13	3106	3	1.33	1.32	0.96	0.96	0.74	73.78	24.36	98.14
3	16	3110	2	1.39	1.38	0.81	0.82	0.79	86.78	10.71	97.49
3	20	3147	3	1.21	1.20	0.77	0.77	0.70	73.61	25.37	98.98
3	23	3130	3	0.89	0.91	0.85	0.85	0.73	74.79	24.18	98.97
3	27	3074	2	0.82	0.83	0.76	0.74	0.69	74.97	24.51	99.48
3	32	3101	3	1.28	1.27	0.85	0.84	0.71	75.28	23.59	98.87
3	40	3013	2	1.00	1.00	0.87	0.87	0.81	89.73	10.10	99.83
4	6	3180	3	2.69	2.68	0.76	0.76	0.84	92.30	6.35	98.65
4	8	3159	2	1.59	1.59	0.70	0.70	0.74	83.21	15.15	98.36
4	19	3055	2	0.81	0.80	0.81	0.80	0.73	80.01	18.51	98.52
4	21	3101	3	0.54	0.54	0.76	0.76	0.59	70.50	26.44	96.94
4	27	3105	2	1.24	1.24	0.64	0.64	0.70	82.72	17.16	99.88
4	30	2991	2	1.22	1.22	0.77	0.76	0.62	70.29	28.54	98.83
4	35	3159	3	1.30	1.30	0.95	0.93	0.71	64.06	33.09	97.15
4	42	3146	3	1.51	1.50	0.92	0.90	0.68	63.79	33.44	97.23
4	45	3140	3	0.97	0.97	0.79	0.76	0.54	59.60	36.80	96.40
4	49	3134	3	1.37	1.37	1.15	1.14	0.78	72.88	22.48	95.36
4	51	3112	2	0.47	0.49	0.61	0.62	0.55	71.91	26.90	98.81
4	103	3176	2	1.66	1.66	0.65	0.64	0.82	90.99	7.97	98.96
4	106	3074	2	0.82	0.83	0.76	0.74	0.69	74.97	24.51	99.48
4	114	3145	3	1.70	1.70	1.20	1.21	0.74	65.86	26.25	92.11
5	5	3196	3	1.07	1.09	0.81	0.84	0.56	57.20	38.05	95.25
5	12	3142	3	1.14	1.17	0.97	0.96	0.60	56.87	35.79	92.66
5	17	3145	3	1.70	1.70	1.20	1.21	0.74	65.86	26.25	92.11
5	25	3088	2	0.60	0.60	0.61	0.61	0.57	74.81	24.61	99.42
5	27	3048	2	0.68	0.69	0.65	0.65	0.61	76.55	23.02	99.57
5	33	3182	3	1.51	1.51	0.91	0.91	0.69	62.22	35.58	97.80
5	39	3179	3	1.55	1.55	1.11	1.12	0.83	71.64	26.91	98.55
5	40	3175	3	1.05	1.05	0.86	0.86	0.64	64.18	32.19	96.37
5	47	3140	2	0.83	0.84	0.67	0.68	0.64	73.30	26.25	99.55
5	51	3132	2	0.98	0.99	0.76	0.75	0.64	70.50	27.20	97.70
5	94	3154	2	0.66	0.66	0.78	0.78	0.72	77.50	20.31	97.81
5	96	3138	3	1.11	1.11	0.91	0.93	0.72	73.44	24.11	97.55
5	111	3105	2	1.24	1.24	0.64	0.64	0.70	82.72	17.16	99.88
5	114	2991	2	1.22	1.22	0.77	0.76	0.62	70.29	28.54	98.83

**Table 10. Rater Reliability Statistics – Reading (cont'd)**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
6	4	3154	2	0.66	0.66	0.78	0.78	0.72	77.50	20.31	97.81
6	6	3138	3	1.11	1.11	0.91	0.93	0.72	73.44	24.11	97.55
6	12	3136	3	1.27	1.27	1.05	1.05	0.63	52.97	39.18	92.15
6	19	3135	3	1.11	1.12	0.95	0.95	0.86	85.06	14.68	99.74
6	21	3102	3	1.03	1.02	0.80	0.79	0.59	62.50	34.91	97.41
6	28	3103	3	1.17	1.16	0.93	0.92	0.67	70.04	24.51	94.55
6	40	3091	2	0.51	0.51	0.67	0.66	0.58	74.57	22.58	97.15
6	45	3051	2	1.51	1.51	0.69	0.69	0.80	93.28	6.23	99.51
6	46	3009	3	0.69	0.68	0.66	0.67	0.54	72.40	26.27	98.67
6	49	2833	2	0.67	0.67	0.77	0.77	0.68	87.62	12.06	99.68
6	102	3137	3	0.47	0.47	0.78	0.77	0.78	88.21	9.82	98.03
6	104	3102	2	0.86	0.85	0.61	0.61	0.67	81.14	18.54	99.68
6	109	3098	2	0.77	0.77	0.80	0.80	0.76	78.21	20.88	99.09
6	110	3109	2	0.96	0.96	0.60	0.60	0.60	75.71	23.78	99.49
7	5	3135	3	1.11	1.12	0.95	0.95	0.86	85.06	14.68	99.74
7	7	3102	3	1.03	1.02	0.80	0.79	0.59	62.50	34.91	97.41
7	12	3086	2	0.72	0.71	0.71	0.70	0.53	63.33	33.50	96.83
7	13	3072	2	1.39	1.40	0.83	0.82	0.81	89.19	7.88	97.07
7	24	3061	4	1.20	1.18	0.81	0.81	0.64	78.18	18.22	96.40
7	33	3049	3	2.25	2.26	0.94	0.93	0.82	88.08	11.26	99.34
7	35	3044	2	1.04	1.04	0.77	0.78	0.68	72.18	26.54	98.72
7	39	3070	3	1.00	1.00	0.84	0.84	0.65	65.08	32.70	97.78
7	44	3070	2	0.79	0.79	0.62	0.62	0.57	71.86	27.10	98.96
7	46	3077	3	0.92	0.92	0.72	0.72	0.63	77.78	19.10	96.88
7	47	3065	2	1.24	1.22	0.64	0.64	0.61	73.33	25.95	99.28
7	53	3021	2	1.37	1.37	0.81	0.81	0.63	71.49	23.91	95.40
7	104	3102	2	0.86	0.85	0.61	0.61	0.67	81.14	18.54	99.68
7	115	3056	2	0.56	0.57	0.62	0.62	0.55	71.10	27.95	99.05
8	5	3136	2	1.12	1.12	0.83	0.84	0.82	81.08	18.18	99.26
8	8	3129	3	2.62	2.63	0.64	0.64	0.64	80.47	17.77	98.24
8	19	3003	2	1.53	1.54	0.66	0.66	0.69	87.51	11.52	99.03
8	20	3034	3	1.88	1.89	1.04	1.03	0.75	78.89	18.67	97.56
8	26	2969	3	1.36	1.36	0.85	0.85	0.61	74.73	21.86	96.59
8	30	2809	3	1.41	1.42	1.03	1.02	0.63	77.78	19.29	97.07
8	42	2984	2	0.82	0.83	0.93	0.93	0.83	91.96	7.31	99.27
8	44	3070	2	0.79	0.79	0.62	0.62	0.57	71.86	27.10	98.96
8	46	3091	3	1.31	1.31	0.91	0.90	0.72	73.27	25.02	98.29
8	48	3065	2	1.24	1.22	0.64	0.64	0.61	73.33	25.95	99.28
8	54	3036	3	1.92	1.91	0.93	0.92	0.70	74.11	24.84	98.95
8	100	3080	3	0.96	0.95	0.84	0.84	0.64	71.07	25.81	96.88
8	109	3067	2	0.83	0.84	0.79	0.79	0.78	86.00	13.02	99.02
8	110	3079	2	0.97	0.99	0.79	0.79	0.71	75.20	23.43	98.63

**Table 10. Rater Reliability Statistics – Reading (cont'd)**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
9	5	3136	2	1.12	1.12	0.83	0.84	0.82	81.08	18.18	99.26
9	8	3129	3	2.62	2.63	0.64	0.64	0.64	80.47	17.77	98.24
9	11	3037	3	1.45	1.45	1.16	1.16	0.83	84.01	15.03	99.04
9	19	2852	2	0.26	0.26	0.61	0.60	0.55	85.56	11.91	97.47
9	22	2895	3	1.12	1.12	0.98	0.97	0.56	57.80	37.04	94.84
9	26	3021	3	1.53	1.52	0.89	0.90	0.62	61.71	35.61	97.32
9	37	3054	3	2.53	2.52	0.86	0.87	0.73	84.82	12.91	97.73
9	40	2963	3	1.13	1.15	1.01	1.01	0.64	68.38	26.34	94.72
9	44	2874	2	0.59	0.58	0.71	0.69	0.61	78.37	20.90	99.27
9	96	2958	3	1.19	1.19	0.85	0.85	0.56	60.94	35.77	96.71
9	99	2997	3	1.89	1.90	0.94	0.94	0.66	67.29	29.81	97.10
9	106	3036	3	1.92	1.91	0.93	0.92	0.70	74.11	24.84	98.95
9	112	2967	3	1.46	1.45	0.88	0.89	0.61	69.18	27.45	96.63
9	115	2938	3	1.09	1.10	0.84	0.84	0.61	76.02	20.78	96.80
10	7	2852	2	0.26	0.26	0.61	0.60	0.55	85.56	11.91	97.47
10	9	2768	2	0.74	0.75	0.76	0.76	0.63	73.81	24.38	98.19
10	11	2895	3	1.12	1.12	0.98	0.97	0.56	57.80	37.04	94.84
10	13	2811	4	2.33	2.33	0.99	1.00	0.62	65.18	31.29	96.47
10	21	2713	2	0.66	0.66	0.65	0.66	0.59	78.92	20.60	99.52
10	27	2768	3	1.46	1.47	1.05	1.05	0.68	74.74	20.96	95.70
10	30	2838	3	1.65	1.66	0.80	0.82	0.70	82.01	17.43	99.44
10	31	2802	3	1.60	1.62	0.98	0.98	0.58	63.93	28.57	92.50
10	35	2813	3	1.52	1.52	0.95	0.95	0.69	73.02	24.78	97.80
10	38	2755	3	0.84	0.84	0.84	0.85	0.64	79.17	19.37	98.54
10	47	2703	3	2.24	2.24	0.96	0.96	0.66	80.31	18.13	98.44
10	51	2658	3	1.25	1.24	1.13	1.12	0.57	64.24	25.66	89.90
10	97	2770	2	0.76	0.76	0.81	0.81	0.64	73.18	24.29	97.47
10	104	2967	3	1.46	1.45	0.88	0.89	0.61	69.18	27.45	96.63

**Table 11. Rater Reliability Statistics – Writing**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
3	1A	3216	1	0.92	0.92	0.27	0.27	0.87	98.44	1.56	100.00
3	1B	3215	1	0.95	0.96	0.21	0.20	0.69	97.57	2.43	100.00
3	1C	3215	1	0.70	0.70	0.46	0.46	0.91	96.58	3.42	100.00
3	1D	3215	1	0.83	0.83	0.38	0.38	0.91	97.79	2.21	100.00
3	1E	3214	1	0.46	0.45	0.50	0.50	0.92	96.64	3.36	100.00
3	1F	3215	1	0.68	0.67	0.47	0.47	0.94	97.95	2.05	100.00
3	10A	3202	2	1.17	1.17	0.56	0.56	0.54	72.98	26.74	99.72
3	10B	3203	1	0.79	0.80	0.41	0.40	0.47	82.79	17.21	100.00
3	10C	3203	1	0.64	0.65	0.48	0.48	0.48	76.51	23.49	100.00
3	10D	3203	1	0.71	0.72	0.45	0.45	0.48	78.91	21.09	100.00
3	28A	3203	2	1.22	1.24	0.44	0.44	0.37	75.01	24.99	100.00
3	28B	3203	1	0.97	0.97	0.17	0.16	0.36	96.34	3.66	100.00
3	28C	3203	1	0.81	0.81	0.40	0.39	0.44	82.60	17.40	100.00
3	28D	3203	1	0.86	0.87	0.34	0.33	0.48	88.16	11.84	100.00
3	39A	3191	2	1.26	1.26	0.50	0.50	0.41	71.08	28.92	100.00
3	39B	3191	1	0.91	0.91	0.28	0.28	0.41	90.59	9.41	100.00
3	39C	3191	1	0.69	0.69	0.46	0.46	0.44	76.38	23.62	100.00
3	39D	3191	1	0.83	0.82	0.37	0.38	0.46	84.72	15.28	100.00
4	1	3205	1	0.98	0.98	0.14	0.14	0.89	99.56	0.44	100.00
4	2A	3179	1	0.26	0.26	0.44	0.44	0.96	99.18	0.82	100.00
4	2B	3178	1	0.80	0.80	0.40	0.40	0.92	98.11	1.89	100.00
4	2C	3176	1	0.23	0.23	0.42	0.42	0.95	99.06	0.94	100.00
4	2D	3176	1	0.76	0.76	0.43	0.43	0.93	98.11	1.89	100.00
4	2E	3177	1	0.25	0.25	0.43	0.43	0.93	97.98	2.02	100.00
4	2F	3177	1	0.45	0.46	0.50	0.50	0.94	98.02	1.98	100.00
4	3A	3181	4	2.52	2.52	0.92	0.90	0.63	56.26	40.31	96.57
4	3B	3181	4	2.55	2.55	0.82	0.81	0.58	56.45	40.94	97.39
4	3C	3181	2	1.86	1.87	0.37	0.37	0.52	87.61	12.30	99.91
4	77	3133	4	2.27	2.28	0.70	0.70	0.53	64.21	34.64	98.85
4	95	2995	4	2.13	2.12	0.82	0.81	0.53	63.21	34.78	97.99
4	116	3106	4	2.00	2.01	0.78	0.78	0.57	64.50	34.04	98.54
5	1	3225	1	0.98	0.98	0.13	0.12	0.82	99.44	0.56	100.00
5	2A	3209	1	0.50	0.51	0.50	0.50	0.89	95.14	4.86	100.00
5	2B	3208	1	0.68	0.67	0.47	0.47	0.91	96.29	3.71	100.00
5	2C	3209	1	0.70	0.70	0.46	0.46	0.97	99.28	0.72	100.00
5	2D	3208	1	0.95	0.95	0.21	0.21	0.77	98.22	1.78	100.00
5	2E	3209	1	0.86	0.86	0.35	0.35	0.95	99.25	0.75	100.00
5	2F	3209	1	0.73	0.73	0.45	0.45	0.94	98.22	1.78	100.00
5	3A	3207	4	2.78	2.78	0.90	0.91	0.62	56.83	39.36	96.19
5	3B	3205	4	2.79	2.79	0.82	0.82	0.58	55.56	41.57	97.13
5	3C	3205	2	1.90	1.90	0.32	0.31	0.47	90.17	9.61	99.78
5	74	3161	4	2.53	2.51	0.74	0.74	0.59	66.66	32.49	99.15
5	93	3106	4	2.00	2.01	0.78	0.78	0.57	64.50	34.04	98.54
5	116	3157	4	2.49	2.50	0.67	0.69	0.56	69.17	30.03	99.20

**Table 11. Rater Reliability Statistics – Writing (cont'd)**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
6	1	3181	1	0.99	0.99	0.10	0.11	0.93	99.84	0.16	100.00
6	2A	3161	1	0.16	0.16	0.37	0.37	0.94	98.99	1.01	100.00
6	2B	3162	1	0.68	0.68	0.47	0.47	0.94	97.91	2.09	100.00
6	2C	3160	1	0.77	0.77	0.42	0.42	0.91	97.62	2.38	100.00
6	2D	3161	1	0.40	0.40	0.49	0.49	0.89	95.22	4.78	100.00
6	2E	3162	1	0.58	0.58	0.49	0.49	0.97	99.02	0.98	100.00
6	2F	3161	1	0.07	0.08	0.26	0.27	0.88	98.92	1.08	100.00
6	3A	3162	4	2.86	2.87	0.77	0.78	0.60	61.67	36.78	98.45
6	3B	3162	4	2.81	2.81	0.76	0.77	0.58	59.71	38.17	97.88
6	3C	3162	2	1.92	1.92	0.29	0.28	0.47	91.97	7.78	99.75
6	73	3101	4	2.77	2.76	0.75	0.75	0.57	65.57	33.14	98.71
6	97	3157	4	2.49	2.50	0.67	0.69	0.56	69.17	30.03	99.20
6	116	3095	4	2.17	2.17	0.77	0.77	0.60	66.71	32.35	99.06
7	1	3136	1	0.99	0.99	0.11	0.11	0.82	99.59	0.41	100.00
7	2A	3124	1	0.65	0.65	0.48	0.48	0.91	96.48	3.52	100.00
7	2B	3122	1	0.42	0.42	0.49	0.49	0.94	97.41	2.59	100.00
7	2C	3125	1	0.36	0.37	0.48	0.48	0.91	96.00	4.00	100.00
7	2D	3126	1	0.86	0.87	0.34	0.34	0.91	98.11	1.89	100.00
7	2E	3125	1	0.59	0.59	0.49	0.49	0.92	96.44	3.56	100.00
7	2F	3123	1	0.65	0.66	0.48	0.48	0.92	96.96	3.04	100.00
7	3A	3126	4	2.32	2.32	1.10	1.11	0.67	53.58	39.16	92.74
7	3B	3126	4	2.58	2.57	0.81	0.81	0.51	52.50	42.42	94.92
7	3C	3126	2	1.92	1.91	0.28	0.29	0.36	89.60	10.33	99.93
7	70	3081	4	2.38	2.37	0.67	0.66	0.63	76.44	23.17	99.61
7	95	3101	4	2.77	2.76	0.75	0.75	0.57	65.57	33.14	98.71
7	116	3075	4	2.42	2.41	0.99	0.98	0.56	50.81	42.19	93.00
8	1	3181	1	0.98	0.98	0.13	0.13	0.92	99.72	0.28	100.00
8	2A	3156	1	0.89	0.89	0.31	0.31	0.91	98.99	1.01	100.00
8	2B	3156	1	0.62	0.62	0.49	0.48	0.93	97.18	2.82	100.00
8	2C	3156	1	0.20	0.20	0.40	0.40	0.93	98.45	1.55	100.00
8	2D	3156	1	0.70	0.69	0.46	0.46	0.94	98.10	1.90	100.00
8	2E	3156	1	0.27	0.27	0.44	0.44	0.93	97.81	2.19	100.00
8	2F	3155	1	0.44	0.44	0.50	0.50	0.95	98.54	1.46	100.00
8	3A	3157	4	2.77	2.76	0.83	0.82	0.61	58.89	38.26	97.15
8	3B	3157	4	2.79	2.78	0.80	0.79	0.58	58.22	38.99	97.21
8	3C	3157	2	1.93	1.94	0.26	0.25	0.44	92.90	6.97	99.87
8	75	3081	4	2.38	2.37	0.67	0.66	0.63	76.44	23.17	99.61
8	98	3029	4	2.41	2.41	0.80	0.80	0.58	68.33	30.91	99.24
8	116	3124	4	2.54	2.54	0.78	0.78	0.61	65.95	32.93	98.88



**Table 11. Rater Reliability Statistics – Writing (cont'd)**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
9	1	3156	1	0.97	0.97	0.16	0.16	0.93	99.65	0.35	100.00
9	2A	3126	1	0.80	0.80	0.40	0.40	0.83	95.29	4.71	100.00
9	2B	3125	1	0.64	0.64	0.48	0.48	0.93	97.54	2.46	100.00
9	2C	3124	1	0.50	0.50	0.50	0.50	0.93	97.34	2.66	100.00
9	2D	3126	1	0.23	0.24	0.42	0.43	0.87	96.22	3.78	100.00
9	2E	3124	1	0.67	0.66	0.47	0.47	0.94	98.46	1.54	100.00
9	2F	3125	1	0.54	0.54	0.50	0.50	0.94	98.08	1.92	100.00
9	3A	3125	4	3.00	2.97	0.85	0.85	0.64	61.64	36.18	97.82
9	3B	3124	4	3.00	2.99	0.82	0.81	0.62	61.34	36.77	98.11
9	3C	3124	2	1.98	1.97	0.16	0.17	0.42	96.73	3.20	99.93
9	72	3047	4	2.64	2.65	0.79	0.80	0.62	71.18	28.36	99.54
9	94	2947	4	2.30	2.32	0.78	0.78	0.56	71.61	27.68	99.29
9	116	3124	4	2.54	2.54	0.78	0.78	0.61	65.95	32.93	98.88
10	1	2966	1	0.97	0.97	0.18	0.18	0.92	99.49	0.51	100.00
10	2A	2908	1	0.66	0.67	0.47	0.47	0.94	99.24	0.76	100.00
10	2B	2907	1	0.61	0.62	0.49	0.49	0.79	91.54	8.46	100.00
10	2C	2908	1	0.76	0.76	0.43	0.43	0.89	97.45	2.55	100.00
10	2D	2908	1	0.75	0.75	0.43	0.43	0.78	93.29	6.71	100.00
10	2E	2907	1	0.37	0.37	0.48	0.48	0.90	97.28	2.72	100.00
10	2F	2908	1	0.83	0.83	0.37	0.37	0.87	98.00	2.00	100.00
10	3A	2901	4	2.96	2.96	0.80	0.81	0.59	62.71	35.77	98.48
10	3B	2900	4	2.95	2.96	0.78	0.78	0.57	61.01	37.51	98.52
10	3C	2901	2	1.97	1.97	0.17	0.18	0.46	97.03	2.86	99.89
10	71	3047	4	2.64	2.65	0.79	0.80	0.62	71.18	28.36	99.54
10	93	2739	4	2.50	2.52	0.86	0.87	0.56	67.94	31.07	99.01
10	116	2819	4	2.62	2.64	0.83	0.84	0.61	70.90	28.68	99.58

**Table 12. Rater Reliability Statistics – Mathematics**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
3	6	3228	2	0.93	0.93	0.63	0.63	0.83	88.35	11.53	99.88
3	11	3229	2	1.46	1.46	0.71	0.71	0.92	93.87	6.10	99.97
3	15	3197	2	0.30	0.29	0.60	0.59	0.76	88.02	11.42	99.44
3	20	3223	3	1.98	1.98	0.88	0.88	0.85	85.35	13.84	99.19
3	26	3221	2	1.04	1.04	0.84	0.84	0.88	86.40	13.23	99.63
3	30	3182	2	1.06	1.06	0.94	0.94	0.92	95.94	3.33	99.27
3	36	3207	2	1.18	1.18	0.92	0.93	0.93	94.10	5.59	99.69
3	40	3191	3	1.14	1.14	0.97	0.98	0.76	72.65	24.81	97.46
4	5	3029	2	1.16	1.16	0.77	0.78	0.77	89.56	10.11	99.67
4	12	3206	3	2.63	2.62	0.67	0.68	0.87	91.95	7.77	99.72
4	16	3187	2	1.47	1.47	0.83	0.83	0.92	93.50	6.37	99.87
4	18	3223	3	1.98	1.98	0.88	0.88	0.85	85.35	13.84	99.19
4	23	3187	4	1.95	1.94	1.19	1.20	0.90	90.33	8.85	99.18
4	27	3203	2	1.23	1.24	0.77	0.77	0.92	92.78	7.06	99.84
4	31	3209	3	1.91	1.91	1.07	1.06	0.94	91.65	8.07	99.72
4	35	3229	2	1.46	1.46	0.71	0.71	0.92	93.87	6.10	99.97
4	41	3211	3	2.46	2.47	0.93	0.93	0.88	87.82	10.18	98.00
4	46	3200	4	2.89	2.90	1.48	1.48	0.90	83.41	11.84	95.25
4	51	3195	2	0.48	0.48	0.74	0.73	0.95	97.72	2.25	99.97
4	57	3197	3	1.62	1.62	1.21	1.21	0.90	85.47	12.15	97.62
4	60	3196	2	1.24	1.24	0.84	0.84	0.90	89.71	10.04	99.75
4	66	3194	3	0.61	0.63	0.95	0.96	0.85	85.46	12.69	98.15
4	69	3193	4	2.19	2.20	1.47	1.47	0.94	90.04	8.55	98.59
5	6	3249	2	1.35	1.35	0.69	0.69	0.92	94.64	5.23	99.87
5	10	3245	3	1.48	1.49	0.81	0.82	0.83	86.07	12.24	98.31
5	15	3187	2	1.47	1.47	0.83	0.83	0.92	93.50	6.37	99.87
5	20	3248	3	1.92	1.93	0.84	0.84	0.84	80.60	19.18	99.78
5	23	3232	4	2.27	2.25	1.05	1.05	0.86	83.10	15.97	99.07
5	27	3203	2	1.23	1.24	0.77	0.77	0.92	92.78	7.06	99.84
5	33	3212	3	1.00	0.99	1.11	1.12	0.90	88.94	10.68	99.62
5	38	3212	2	0.56	0.55	0.80	0.79	0.79	81.66	17.10	98.76
5	41	3214	3	0.91	0.90	1.15	1.15	0.91	92.58	6.61	99.19
5	46	3232	4	2.80	2.80	1.24	1.24	0.90	84.96	14.05	99.01
5	52	3234	2	1.00	1.00	0.69	0.69	0.93	96.72	3.28	100.00
5	57	3209	3	1.91	1.91	1.07	1.06	0.94	91.65	8.07	99.72
5	59	3229	2	0.99	0.99	0.93	0.92	0.92	90.18	9.79	99.97
5	63	3239	3	0.52	0.53	0.80	0.81	0.89	92.03	7.87	99.90
5	69	3233	4	2.03	2.03	1.04	1.04	0.80	77.03	20.06	97.09

**Table 12. Rater Reliability Statistics – Mathematics (cont'd)**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
6	4	3138	2	0.77	0.77	0.70	0.71	0.79	81.66	18.15	99.81
6	8	3086	3	1.56	1.55	1.01	1.01	0.82	82.85	16.34	99.19
6	11	3117	2	1.11	1.11	0.95	0.95	0.90	93.38	4.98	98.36
6	14	3120	3	1.09	1.08	1.16	1.16	0.90	86.09	13.01	99.10
6	20	3109	4	2.42	2.41	1.06	1.06	0.84	85.71	14.00	99.71
6	23	3120	2	1.47	1.46	0.79	0.80	0.89	92.84	6.58	99.42
6	29	3128	3	0.57	0.57	0.83	0.83	0.88	92.61	7.07	99.68
6	32	3135	2	1.60	1.59	0.67	0.67	0.89	93.97	5.74	99.71
6	38	3117	3	1.41	1.41	1.10	1.10	0.90	87.42	12.36	99.78
6	40	3125	4	1.29	1.29	0.79	0.80	0.78	87.71	11.55	99.26
6	46	3119	2	1.21	1.21	0.89	0.89	0.86	87.85	10.23	98.08
6	52	3214	3	0.91	0.90	1.15	1.15	0.91	92.58	6.61	99.19
6	54	3129	2	1.21	1.22	0.90	0.90	0.88	86.53	12.64	99.17
6	57	3140	3	2.12	2.11	1.00	1.00	0.89	84.80	14.69	99.49
6	60	3138	4	2.39	2.39	1.25	1.25	0.92	89.32	10.39	99.71
7	3	3142	2	0.80	0.80	0.96	0.96	0.93	94.62	3.92	98.54
7	6	3143	3	0.92	0.91	0.80	0.80	0.80	82.94	16.21	99.15
7	11	3139	2	0.53	0.53	0.57	0.57	0.92	98.47	1.50	99.97
7	17	3128	3	0.57	0.57	0.83	0.83	0.88	92.61	7.07	99.68
7	20	3076	4	1.15	1.15	1.28	1.29	0.82	81.20	17.11	98.31
7	23	3102	2	0.49	0.48	0.79	0.79	0.89	94.39	5.19	99.58
7	26	3148	3	2.45	2.44	0.87	0.87	0.78	81.51	14.80	96.31
7	30	3116	2	0.69	0.70	0.92	0.92	0.91	95.40	3.57	98.97
7	35	3129	3	0.87	0.87	0.93	0.92	0.82	81.52	17.36	98.88
7	40	3132	4	1.81	1.82	1.48	1.48	0.87	73.94	22.01	95.95
7	43	3110	2	0.51	0.51	0.80	0.80	0.90	95.49	4.45	99.94
7	46	3150	3	2.20	2.20	0.82	0.82	0.92	94.73	5.11	99.84
7	49	3140	2	0.93	0.93	0.87	0.88	0.90	89.46	10.07	99.53
7	54	3132	3	1.09	1.07	0.89	0.89	0.82	82.58	16.78	99.36
7	60	3125	4	1.29	1.29	0.79	0.80	0.78	87.71	11.55	99.26
8	4	3110	2	0.51	0.51	0.80	0.80	0.90	95.49	4.45	99.94
8	7	3092	3	1.56	1.56	0.92	0.92	0.79	77.02	21.55	98.57
8	10	3013	2	1.18	1.16	0.87	0.88	0.70	75.12	21.00	96.12
8	14	3072	3	1.40	1.40	1.01	1.01	0.87	88.57	11.00	99.57
8	20	3017	4	1.24	1.23	1.35	1.34	0.80	77.84	19.97	97.81
8	24	3139	2	0.53	0.53	0.57	0.57	0.92	98.47	1.50	99.97
8	27	3150	3	2.20	2.20	0.82	0.82	0.92	94.73	5.11	99.84
8	34	3080	2	0.85	0.85	0.82	0.82	0.80	81.36	17.34	98.70
8	37	3036	3	1.14	1.12	0.95	0.96	0.78	82.22	17.02	99.24
8	40	3074	4	1.01	1.00	1.14	1.13	0.82	82.70	15.77	98.47
8	45	3089	3	0.86	0.87	0.47	0.48	0.65	89.90	9.75	99.65
8	48	3069	2	0.50	0.51	0.73	0.73	0.85	91.81	7.73	99.54
8	53	3081	3	1.29	1.29	0.79	0.79	0.78	83.64	15.88	99.52
8	57	3007	2	0.37	0.38	0.62	0.62	0.73	89.39	10.41	99.80
8	60	3087	4	1.85	1.85	1.15	1.14	0.85	80.60	18.66	99.26

**Table 12. Rater Reliability Statistics – Mathematics (cont'd)**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
9	4	2984	2	0.21	0.21	0.47	0.47	0.61	90.66	8.97	99.63
9	9	3039	3	0.68	0.69	0.95	0.95	0.77	85.17	12.26	97.43
9	14	3007	2	0.37	0.38	0.62	0.62	0.73	89.39	10.41	99.80
9	17	2939	3	0.38	0.39	0.79	0.80	0.64	85.40	12.76	98.16
9	20	3038	4	1.97	1.97	1.10	1.10	0.71	67.00	29.68	96.68
9	23	2983	2	0.55	0.55	0.78	0.78	0.77	87.03	11.97	99.00
9	26	3038	2	0.61	0.61	0.70	0.69	0.85	95.19	4.67	99.86
9	30	2942	3	0.48	0.47	0.84	0.82	0.65	82.48	15.24	97.72
9	36	3036	3	1.14	1.12	0.95	0.96	0.78	82.22	17.02	99.24
9	40	3001	4	0.74	0.74	1.27	1.27	0.80	88.63	10.23	98.86
9	44	3043	2	0.88	0.89	0.76	0.76	0.85	92.05	7.89	99.94
9	48	2965	3	1.09	1.09	1.27	1.27	0.82	88.15	10.73	98.88
9	51	3018	2	1.30	1.30	0.81	0.81	0.76	79.85	19.62	99.47
9	56	2998	3	0.84	0.82	1.01	1.00	0.80	88.08	11.62	99.70
9	60	2973	4	1.62	1.65	1.40	1.40	0.79	81.86	16.22	98.08
10	2	2863	2	0.61	0.61	0.69	0.70	0.72	84.73	14.95	99.68
10	8	2896	3	0.74	0.73	0.90	0.90	0.76	83.75	15.42	99.17
10	12	2859	2	0.90	0.90	0.82	0.81	0.83	91.84	8.02	99.86
10	17	2835	3	0.48	0.47	0.81	0.80	0.73	93.65	5.40	99.05
10	20	2908	4	2.07	2.08	1.08	1.08	0.74	73.42	24.92	98.34
10	23	2882	2	0.78	0.78	0.82	0.82	0.79	87.91	10.53	98.44
10	28	2942	3	0.48	0.47	0.84	0.82	0.65	82.48	15.24	97.72
10	32	2907	2	1.18	1.18	0.71	0.71	0.77	87.28	12.10	99.38
10	36	2885	3	0.69	0.68	1.05	1.04	0.81	90.92	6.38	97.30
10	40	2847	4	0.86	0.86	1.07	1.06	0.72	81.42	17.49	98.91
10	42	2841	2	0.60	0.60	0.88	0.87	0.86	97.14	2.64	99.78
10	49	2847	3	0.74	0.72	0.92	0.92	0.75	88.53	10.74	99.27
10	54	2816	2	0.62	0.63	0.88	0.88	0.81	91.48	8.34	99.82
10	57	2825	3	1.01	0.99	1.15	1.14	0.80	87.40	11.86	99.26
10	60	2854	4	1.31	1.31	1.55	1.55	0.84	86.60	12.70	99.30

**Table 13. Rater Reliability Statistics – Spanish Reading**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
3	1	267	3	1.84	1.84	1.24	1.23	0.96	96.25	3.75	100.00
3	2	266	3	1.92	1.92	1.34	1.34	0.96	98.12	1.88	100.00
3	8	265	2	1.22	1.14	0.79	0.79	0.82	83.40	16.23	99.63
3	17	264	3	1.96	1.91	1.01	1.05	0.73	61.74	35.61	97.35
3	25	269	2	1.55	1.54	0.71	0.71	0.82	85.13	14.13	99.26
3	26	267	2	1.01	1.00	0.93	0.95	0.86	88.39	8.61	97.00
3	32	267	3	1.25	1.22	0.93	0.88	0.89	91.01	8.61	99.62
3	36	269	2	1.15	1.12	0.81	0.81	0.79	76.21	23.05	99.26
4	13	29	3	1.38	1.34	0.90	0.86	0.72	89.66	10.34	100.00
4	14	30	2	0.80	0.63	0.81	0.72	0.69	80.00	16.67	96.67
4	29	31	3	2.03	2.06	1.14	1.12	0.96	90.32	9.68	100.00
4	31	31	2	0.65	0.58	0.88	0.85	0.96	93.55	6.45	100.00
4	33	30	3	0.80	0.67	0.89	0.92	0.70	76.67	20.00	96.67
4	34	30	3	1.27	1.37	1.23	1.25	0.81	73.33	23.33	96.66
4	42	29	2	0.28	0.28	0.45	0.45	0.70	100.00	0.00	100.00
4	44	29	2	1.28	1.28	0.88	0.84	0.78	86.21	13.79	100.00
4	45	29	3	0.90	0.83	0.82	0.80	0.68	86.21	13.79	100.00
4	97	31	2	0.45	0.55	0.68	0.72	0.70	80.65	16.13	96.78
4	98	31	3	1.03	1.03	1.20	1.22	0.98	93.55	6.45	100.00
4	100	31	2	0.58	0.55	0.76	0.72	0.91	90.32	9.68	100.00
4	108	31	2	1.32	1.35	0.87	0.88	0.93	90.32	9.68	100.00
4	116	31	3	1.61	1.58	0.95	0.96	0.98	96.77	3.23	100.00

**Table 14. Rater Reliability Statistics – Spanish Writing**

Grade	Item	N	Max Score	Mean		SD		Weighted Kappa	Agreement		
				Rater 1	Rater 2	Rater 1	Rater 2		Exact	Adjacent	Exact + Adjacent
3	4A	268	1	0.81	0.81	0.39	0.39	0.92	98.51	1.49	100.00
3	4B	268	1	0.29	0.30	0.45	0.46	0.91	97.39	2.61	100.00
3	4C	268	1	0.68	0.68	0.47	0.47	0.95	98.88	1.12	100.00
3	4D	268	1	0.64	0.63	0.48	0.48	0.93	97.76	2.24	100.00
3	4E	268	1	0.57	0.56	0.50	0.50	0.93	97.76	2.24	100.00
3	4F	268	1	0.84	0.83	0.37	0.38	0.87	97.39	2.61	100.00
3	16A	265	2	1.26	1.27	0.59	0.62	0.60	75.47	24.15	99.62
3	16B	265	1	0.86	0.80	0.35	0.40	0.48	85.28	14.72	100.00
3	16C	265	1	0.78	0.72	0.42	0.45	0.61	86.42	13.58	100.00
3	16D	265	1	0.90	0.90	0.30	0.30	0.58	93.21	6.79	100.00
3	27A	270	2	1.15	1.16	0.71	0.69	0.71	76.21	22.68	98.89
3	27B	270	1	0.69	0.67	0.46	0.47	0.52	79.55	20.45	100.00
3	27C	270	1	0.70	0.68	0.46	0.47	0.69	86.99	13.01	100.00
3	27D	270	1	0.85	0.83	0.36	0.37	0.72	92.94	7.06	100.00
3	39A	270	2	1.16	1.09	0.79	0.78	0.64	63.20	34.94	98.14
3	39B	270	1	0.68	0.65	0.47	0.48	0.53	79.55	20.45	100.00
3	39C	270	1	0.63	0.62	0.48	0.49	0.61	82.16	17.84	100.00
3	39D	270	1	0.79	0.76	0.41	0.43	0.60	86.25	13.75	100.00
4	1	31	1	0.94	0.94	0.25	0.25	1.00	100.00	0.00	100.00
4	2A	29	1	0.93	0.90	0.26	0.31	0.63	96.55	3.45	100.00
4	2B	29	1	0.52	0.52	0.51	0.51	0.89	100.00	0.00	100.00
4	2C	29	1	0.83	0.83	0.38	0.38	0.83	100.00	0.00	100.00
4	2D	29	1	0.55	0.59	0.51	0.50	0.83	96.55	3.45	100.00
4	2E	29	1	0.45	0.52	0.51	0.51	0.77	93.10	6.90	100.00
4	2F	29	1	0.17	0.14	0.38	0.35	0.73	96.55	3.45	100.00
4	3A	29	4	1.38	1.31	1.08	1.00	0.65	75.86	20.69	96.55
4	3B	29	4	1.76	1.83	0.69	0.80	0.58	79.31	20.69	100.00
4	3C	29	2	1.45	1.59	0.63	0.57	0.60	79.31	20.69	100.00
4	25	30	4	1.47	1.57	0.97	1.07	0.68	66.67	30.00	96.67
4	63	31	4	1.71	1.58	0.97	1.18	0.86	67.74	32.26	100.00
4	90	30	4	1.60	1.83	0.89	1.05	0.71	80.00	16.67	96.67

**Table 15. Rater Severity/Leniency Study Results**

Content Area	2012/2013		2014	Valid N	Mean		Mean Difference	STD		% Adjacent		% Discrepant		Intra Class	Wtd Kappa
	Grade	Item Number	Item Number		2012/2013	2014		2013	2014	% Exact	% Discrepant	Corr			
Reading	3	4	4	973	1.07	1.02	0.05	0.68	0.67	26.72	72.56	0.72	0.68	0.84	0.68
Reading	3	20	20	984	1.21	1.39	-0.18	0.84	0.89	36.59	59.86	3.56	0.68	0.83	0.66
Reading	3	32	32	973	1.25	1.30	-0.05	0.85	0.87	24.25	73.59	2.16	0.77	0.89	0.77
Reading	4	21	21	969	0.82	0.51	0.31	0.92	0.72	26.42	68.01	5.57	0.73	0.82	0.66
Reading	4	45	45	980	1.35	1.09	0.26	0.87	0.78	31.02	64.49	4.49	0.69	0.82	0.65
Reading	4	103	103	988	1.61	1.63	-0.02	0.70	0.70	9.01	89.47	1.52	0.85	0.92	0.85
Reading	5	5	5	989	1.13	1.53	-0.40	0.84	0.89	46.51	43.68	9.81	0.53	0.72	0.47
Reading	5	39	39	984	1.50	1.55	-0.05	1.16	1.10	29.67	63.21	7.11	0.75	0.88	0.75
Reading	5	47	47	972	0.81	0.92	-0.11	0.66	0.74	25.82	73.66	0.51	0.73	0.86	0.72
Reading	6	6	6	934	1.34	1.36	-0.02	0.96	0.94	22.59	75.48	1.93	0.83	0.92	0.83
Reading	6	49	49	974	0.85	0.86	-0.01	0.82	0.82	11.60	87.99	0.41	0.90	0.95	0.90
Reading	6	110	110	985	0.97	0.89	0.08	0.58	0.60	25.79	73.71	0.51	0.61	0.80	0.61
Reading	7	24	24	979	1.18	1.21	-0.03	0.86	0.86	19.00	78.24	2.76	0.80	0.90	0.79
Reading	7	52	39	971	0.94	1.07	-0.13	0.89	0.95	37.90	56.95	5.15	0.65	0.82	0.65
Reading	7	45	53	965	1.52	1.36	0.16	0.73	0.81	25.49	69.84	4.66	0.65	0.81	0.63
Reading	8	30	30	889	1.30	1.34	-0.04	0.93	1.00	28.68	69.18	2.14	0.80	0.90	0.80
Reading	8	48	48	903	1.28	1.28	0.00	0.65	0.68	25.03	72.76	2.21	0.62	0.81	0.62
Reading	8	100	100	964	1.04	1.09	-0.05	0.85	0.79	28.84	67.95	3.22	0.70	0.85	0.69
Reading	9	19	19	846	0.17	0.21	-0.04	0.50	0.57	5.79	91.96	2.25	0.75	0.87	0.74
Reading	9	26	26	958	1.37	1.60	-0.23	0.81	0.96	44.78	50.52	4.70	0.63	0.80	0.60
Reading	9	96	96	884	1.44	0.89	0.55	0.83	0.94	48.76	43.21	8.03	0.67	0.76	0.56
Reading	10	7	7	855	0.28	0.30	-0.02	0.59	0.64	10.88	87.25	1.87	0.76	0.88	0.76
Reading	10	13	13	881	2.75	2.38	0.37	1.21	1.09	41.54	50.96	7.49	0.77	0.86	0.73
Reading	10	47	47	843	2.19	2.08	0.11	0.97	1.00	23.49	74.14	2.37	0.82	0.91	0.82
Writing	3	39A	39A	984	1.28	1.17	0.11	0.46	0.43	24.59	75.30	0.10	0.40	0.69	0.39

\* Items from 2013 are in bold.

**Table 15. Rater Severity/Leniency Study Results (cont'd)**

Content Area	2012/2013		2014	Valid N	Mean		Mean Difference	STD		% Adjacent	% Exact	% Discrepant	Corr	Intra Class Corr	Wtd Kappa
	Grade	Item Number	Item Number		2012/2013	2014		2013	2014						
<b>Writing</b>	<b>3</b>	<b>39B</b>	<b>39B</b>	<b>984</b>	<b>1.00</b>	<b>0.88</b>	<b>0.12</b>	<b>0.06</b>	<b>0.32</b>	<b>11.99</b>	<b>88.01</b>	<b>0.00</b>	<b>-0.02</b>	<b>0.47</b>	<b>-0.01</b>
<b>Writing</b>	<b>3</b>	<b>39C</b>	<b>39C</b>	<b>984</b>	<b>0.79</b>	<b>0.70</b>	<b>0.09</b>	<b>0.41</b>	<b>0.46</b>	<b>21.65</b>	<b>78.35</b>	<b>0.00</b>	<b>0.45</b>	<b>0.72</b>	<b>0.44</b>
<b>Writing</b>	<b>3</b>	<b>39D</b>	<b>39D</b>	<b>984</b>	<b>0.88</b>	<b>0.78</b>	<b>0.10</b>	<b>0.32</b>	<b>0.41</b>	<b>16.36</b>	<b>83.64</b>	<b>0.00</b>	<b>0.45</b>	<b>0.71</b>	<b>0.42</b>
<b>Writing</b>	<b>4</b>	<b>95</b>	<b>95</b>	<b>936</b>	<b>2.21</b>	<b>2.37</b>	<b>-0.16</b>	<b>0.84</b>	<b>0.83</b>	<b>37.93</b>	<b>59.83</b>	<b>2.24</b>	<b>0.67</b>	<b>0.83</b>	<b>0.66</b>
Writing	5	116	116	932	2.73	2.72	0.01	0.80	0.77	32.40	66.85	0.75	0.71	0.86	0.71
Writing	6	94	97	908	2.56	2.80	-0.24	0.75	0.80	36.67	62.00	1.32	0.70	0.83	0.66
Writing	7	93	95	909	2.62	2.67	-0.05	0.76	0.77	28.49	71.40	0.11	0.75	0.88	0.75
Writing	8	116	116	909	2.62	2.55	0.07	0.76	0.80	27.50	72.28	0.22	0.77	0.88	0.77
Writing	9	116	116	887	2.48	2.41	0.07	0.75	0.75	23.11	76.32	0.56	0.76	0.88	0.76
<b>Writing</b>	<b>10</b>	<b>116</b>	<b>116</b>	<b>953</b>	<b>2.69</b>	<b>2.69</b>	<b>0.00</b>	<b>0.81</b>	<b>0.87</b>	<b>28.02</b>	<b>71.46</b>	<b>0.52</b>	<b>0.79</b>	<b>0.89</b>	<b>0.79</b>
<b>Mathematics</b>	<b>3</b>	<b>6</b>	<b>6</b>	<b>995</b>	<b>0.96</b>	<b>0.89</b>	<b>0.07</b>	<b>0.61</b>	<b>0.63</b>	<b>15.38</b>	<b>84.52</b>	<b>0.10</b>	<b>0.80</b>	<b>0.90</b>	<b>0.80</b>
<b>Mathematics</b>	<b>3</b>	<b>30</b>	<b>30</b>	<b>979</b>	<b>1.05</b>	<b>1.04</b>	<b>0.01</b>	<b>0.96</b>	<b>0.96</b>	<b>4.09</b>	<b>95.30</b>	<b>0.61</b>	<b>0.96</b>	<b>0.98</b>	<b>0.96</b>
Mathematics	4	27	31	976	1.97	2.00	-0.03	1.05	1.04	12.09	87.19	0.72	0.93	0.96	0.93
<b>Mathematics</b>	<b>4</b>	<b>60</b>	<b>60</b>	<b>990</b>	<b>1.20</b>	<b>1.16</b>	<b>0.04</b>	<b>0.83</b>	<b>0.85</b>	<b>8.28</b>	<b>91.52</b>	<b>0.20</b>	<b>0.94</b>	<b>0.97</b>	<b>0.94</b>
<b>Mathematics</b>	<b>4</b>	<b>69</b>	<b>69</b>	<b>994</b>	<b>2.23</b>	<b>2.29</b>	<b>-0.06</b>	<b>1.44</b>	<b>1.37</b>	<b>18.21</b>	<b>78.77</b>	<b>3.02</b>	<b>0.92</b>	<b>0.96</b>	<b>0.92</b>
<b>Mathematics</b>	<b>5</b>	<b>8</b>	<b>10</b>	<b>994</b>	<b>1.52</b>	<b>1.52</b>	<b>0.00</b>	<b>0.81</b>	<b>0.84</b>	<b>11.07</b>	<b>88.23</b>	<b>0.70</b>	<b>0.90</b>	<b>0.95</b>	<b>0.90</b>
<b>Mathematics</b>	<b>5</b>	<b>46</b>	<b>46</b>	<b>994</b>	<b>2.87</b>	<b>2.77</b>	<b>0.10</b>	<b>1.22</b>	<b>1.21</b>	<b>24.95</b>	<b>72.74</b>	<b>2.31</b>	<b>0.89</b>	<b>0.94</b>	<b>0.88</b>
<b>Mathematics</b>	<b>5</b>	<b>59</b>	<b>59</b>	<b>986</b>	<b>1.03</b>	<b>0.98</b>	<b>0.05</b>	<b>0.93</b>	<b>0.94</b>	<b>8.72</b>	<b>91.28</b>	<b>0.00</b>	<b>0.95</b>	<b>0.97</b>	<b>0.95</b>
<b>Mathematics</b>	<b>6</b>	<b>20</b>	<b>20</b>	<b>993</b>	<b>2.40</b>	<b>2.44</b>	<b>-0.04</b>	<b>1.12</b>	<b>1.07</b>	<b>21.95</b>	<b>77.74</b>	<b>0.30</b>	<b>0.90</b>	<b>0.95</b>	<b>0.90</b>
<b>Mathematics</b>	<b>6</b>	<b>47</b>	<b>46</b>	<b>993</b>	<b>1.25</b>	<b>1.29</b>	<b>-0.04</b>	<b>0.87</b>	<b>0.88</b>	<b>14.00</b>	<b>81.77</b>	<b>4.23</b>	<b>0.80</b>	<b>0.90</b>	<b>0.80</b>
Mathematics	6	51	52	968	1.10	1.16	-0.06	1.22	1.24	10.12	88.84	1.03	0.95	0.98	0.95
Mathematics	7	26	26	974	2.50	2.45	0.05	0.89	0.91	12.94	83.88	3.18	0.84	0.92	0.84
<b>Mathematics</b>	<b>7</b>	<b>30</b>	<b>30</b>	<b>976</b>	<b>0.72</b>	<b>0.73</b>	<b>-0.01</b>	<b>0.93</b>	<b>0.93</b>	<b>5.94</b>	<b>93.44</b>	<b>0.61</b>	<b>0.95</b>	<b>0.98</b>	<b>0.95</b>
<b>Mathematics</b>	<b>7</b>	<b>40</b>	<b>40</b>	<b>987</b>	<b>1.74</b>	<b>1.67</b>	<b>0.07</b>	<b>1.46</b>	<b>1.45</b>	<b>22.70</b>	<b>68.39</b>	<b>8.92</b>	<b>0.84</b>	<b>0.92</b>	<b>0.84</b>
Mathematics	8	27	27	964	2.28	2.29	-0.01	0.80	0.81	8.09	91.91	0.00	0.94	0.97	0.94

\* Items from 2013 are in bold.



**Table 15. Rater Severity/Leniency Study Results (cont'd)**

Content Area	Grade	2012/2013	2014	Valid N	Mean		Mean Difference	STD		% Adjacent		% Discrepant		Intra Class Corr	Wtd Kappa
		Item Number	Item Number		2012/2013	2014		2013	2014	% Exact	% Discrepant				
Mathematics	8	50	48	985	0.48	0.52	-0.04	0.71	0.72	11.98	87.61	0.41	0.87	0.93	0.87
Mathematics	8	60	60	987	2.06	1.90	0.16	1.09	1.17	28.37	70.72	0.91	0.89	0.94	0.87
Mathematics	9	4	4	963	0.21	0.24	-0.03	0.48	0.49	10.28	89.51	0.21	0.77	0.88	0.76
Mathematics	9	40	40	966	0.77	0.82	-0.05	1.30	1.34	11.39	87.58	1.04	0.96	0.98	0.96
Mathematics	9	54	56	972	0.81	0.82	-0.01	0.98	1.00	9.57	89.92	0.51	0.94	0.97	0.94
Mathematics	10	2	2	965	0.60	0.66	-0.06	0.62	0.70	18.76	80.83	0.41	0.78	0.88	0.77
Mathematics	10	40	40	973	0.94	0.96	-0.02	1.03	1.11	23.95	74.31	1.75	0.86	0.93	0.86
Mathematics	10	57	57	968	1.06	0.99	0.07	1.16	1.12	14.05	84.71	1.24	0.93	0.96	0.93

\* Items from 2013 are in bold.

**Table 16. Tested Population Demographic Distribution – Reading**

Subgroup	Grade							
	3	4	5	6	7	8	9	10
<b>No Disability</b>	57127	57628	57799	56915	57032	56446	56362	54160
<b>Disability</b>	6054	6307	6636	6283	5954	5393	5172	4722
<b>No IEP</b>	57132	57622	57788	56918	57044	56457	56364	54146
<b>IEP</b>	6200	6448	6785	6411	6039	5503	5271	4831
<b>No Accommodation</b>	49170	48543	48785	49692	51157	50166	52313	50145
<b>Accommodation</b>	9678	10981	11154	8577	6823	6675	4011	3543
<b>Am. Indian/Alaska Native</b>	463	478	462	446	526	506	477	462
<b>Asian</b>	2047	2017	2089	2095	1970	1964	1861	1905
<b>Black</b>	2958	2871	2902	2881	2898	2963	3104	2900
<b>Hispanic</b>	20442	21295	21437	20944	20585	20136	19662	18157
<b>White</b>	34847	35058	35210	34699	34755	34220	34339	33589
<b>Hawaiian/Pacific Islander</b>	141	147	162	119	136	133	166	146
<b>Two or More Races</b>	2445	2210	2321	2148	2216	2040	2032	1824
<b>Not Free Lunch Eligible</b>	35098	35634	36095	35472	36079	36304	37530	37344
<b>Free Lunch Eligible</b>	23708	23927	23874	23040	22260	21201	19761	17716
<b>Reduced Lunch Eligible</b>	4507	4500	4595	4805	4723	4433	4319	3879
<b>Female</b>	30956	31431	31832	30967	31107	30252	30183	29020
<b>Male</b>	32384	32646	32752	32365	31978	31712	31457	29960
<b>Language Proficiency NA</b>	51280	51170	51460	50599	50792	50188	50419	48412
<b>Language Proficiency NEP</b>	1276	888	928	815	801	880	830	583
<b>Language Proficiency LEP</b>	9230	8551	7826	6691	6319	5338	4466	3384
<b>Language Proficiency FEP</b>	1245	3223	4091	4892	4861	5180	5363	6035
<b>Not Migrant Or Immigrant</b>	62677	63533	64011	62758	62503	61402	61005	58358
<b>Migrant</b>	154	139	167	162	165	147	137	126
<b>Immigrant</b>	479	391	384	397	393	395	474	478
<b>Migrant and Immigrant</b>	21	7	13	12	22	15	14	12

**Table 17. Tested Population Demographic Distribution – Writing**

Subgroup	Grade							
	3	4	5	6	7	8	9	10
<b>No Disability</b>	57244	57593	57783	56936	57021	56399	56425	54193
<b>Disability</b>	6077	6306	6637	6282	5960	5393	5149	4726
<b>No IEP</b>	57246	57587	57772	56939	57033	56410	56427	54179
<b>IEP</b>	6228	6448	6786	6411	6046	5503	5250	4839
<b>No Accommodation</b>	48468	47251	47540	48867	50181	49570	51728	49756
<b>Accommodation</b>	10600	12172	12282	9436	7779	7094	4617	3826
<b>Am. Indian/Alaska Native</b>	464	479	461	448	526	508	478	463
<b>Asian</b>	2053	2016	2090	2091	1970	1960	1858	1902
<b>Black</b>	2971	2869	2903	2881	2896	2960	3105	2908
<b>Hispanic</b>	20499	21273	21422	20957	20590	20146	19685	18167
<b>White</b>	34903	35045	35213	34702	34751	34171	34362	33613
<b>Hawaiian/Pacific Islander</b>	145	148	162	120	136	133	164	146
<b>Two or More Races</b>	2450	2211	2317	2154	2213	2037	2031	1825
<b>Not Free Lunch Eligible</b>	35209	35622	36084	35465	36078	36250	37553	37368
<b>Free Lunch Eligible</b>	23751	23908	23876	23067	22257	21208	19781	17730
<b>Reduced Lunch Eligible</b>	4497	4496	4590	4806	4723	4433	4318	3882
<b>Female</b>	31024	31414	31830	30975	31116	30220	30198	29029
<b>Male</b>	32460	32628	32739	32378	31965	31697	31484	29992
<b>Language Proficiency NA</b>	51394	51153	51461	50613	50785	50135	50455	48447
<b>Language Proficiency NEP</b>	1287	891	922	817	801	874	825	576
<b>Language Proficiency LEP</b>	9248	8532	7821	6692	6321	5343	4469	3383
<b>Language Proficiency FEP</b>	1245	3221	4086	4895	4862	5186	5371	6049
<b>Not Migrant Or Immigrant</b>	62825	63498	63994	62777	62499	61357	61045	58404
<b>Migrant</b>	150	139	167	163	165	147	139	126
<b>Immigrant</b>	480	391	386	398	393	393	474	473
<b>Migrant and Immigrant</b>	22	7	13	12	22	15	14	12

**Table 18. Tested Population Demographic Distribution – Mathematics**

Subgroup	Grade							
	3	4	5	6	7	8	9	10
<b>No Disability</b>	58535	57846	57831	57000	57114	56494	56535	54290
<b>Disability</b>	6180	6331	6667	6296	5961	5411	5202	4757
<b>No IEP</b>	58542	57838	57820	57001	57124	56502	56533	54279
<b>IEP</b>	6326	6472	6817	6425	6052	5525	5300	4861
<b>No Accommodation</b>	49525	49294	49350	50056	51064	50538	52224	50381
<b>Accommodation</b>	10904	10639	10972	8350	7109	6421	4386	3658
<b>Am. Indian/Alaska Native</b>	469	477	462	448	525	508	484	465
<b>Asian</b>	2056	2026	2089	2102	1973	1964	1865	1904
<b>Black</b>	2973	2873	2904	2873	2910	2960	3119	2903
<b>Hispanic</b>	21879	21487	21460	20982	20617	20172	19742	18232
<b>White</b>	34914	35094	35241	34752	34797	34251	34429	33667
<b>Hawaiian/Pacific Islander</b>	143	148	161	122	137	132	166	145
<b>Two or More Races</b>	2444	2215	2330	2152	2221	2041	2039	1833
<b>Not Free Lunch Eligible</b>	35285	35667	36112	35527	36115	36307	37644	37444
<b>Free Lunch Eligible</b>	24969	24111	23912	23085	22306	21262	19834	17771
<b>Reduced Lunch Eligible</b>	4595	4519	4602	4805	4737	4438	4334	3890
<b>Female</b>	31719	31520	31846	30994	31146	30277	30253	29096
<b>Male</b>	33158	32799	32801	32439	32036	31754	31590	30052
<b>Language Proficiency NA</b>	51394	51228	51508	50668	50858	50234	50586	48545
<b>Language Proficiency NEP</b>	1570	1029	936	836	829	883	840	591
<b>Language Proficiency LEP</b>	10351	8582	7839	6700	6324	5350	4484	3397
<b>Language Proficiency FEP</b>	1249	3229	4090	4892	4854	5185	5370	6042
<b>Not Migrant Or Immigrant</b>	64147	63726	64069	62842	62581	61467	61192	58519
<b>Migrant</b>	161	142	168	164	164	147	142	128
<b>Immigrant</b>	540	436	389	407	408	397	481	483
<b>Migrant and Immigrant</b>	22	8	13	13	21	15	15	12

**Table 19. Tested Population Demographic Distribution – Spanish Reading and Writing**

Subgroup	Reading Grade		Writing Grade	
	3	4	3	4
No Disability	1288	149	1301	143
Disability	93	4	92	4
No IEP	1288	149	1301	143
IEP	94	4	93	4
No Accommodation	1173	90	1173	78
Accommodation	204	55	209	61
Am. Indian/Alaska Native	3	.	3	.
Asian	.	.	.	.
Black	2	.	2	.
Hispanic	1372	152	1384	146
White	5	1	5	1
Hawaiian/Pacific Islander	.	.	.	.
Two or More Races	.	.	.	.
Not Free Lunch Eligible	73	28	77	27
Free Lunch Eligible	1213	120	1219	115
Reduced Lunch Eligible	96	5	96	5
Female	689	71	695	68
Male	693	82	698	79
Language Proficiency NA	4	1	5	1
Language Proficiency NEP	271	126	275	123
Language Proficiency LEP	1097	18	1103	16
Language Proficiency FEP	8	.	8	.
Not Migrant Or Immigrant	1321	110	1331	105
Migrant	9	2	9	2
Immigrant	51	40	53	39
Migrant and Immigrant	1	1	1	1

**Table 20. Multiple-Choice Item Analyses, Grade 3 Reading**Mean Item-Total Corr.: 0.40 Mean  $p$ -Value: 0.65

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
1	1	1	1/4	0.37	0.15	0.54	21	2	1	1/4	0.26	0.15	0.59
2	1	1	1/4	0.31	0.17	0.46	22	2	1	1/4	0.47	0.17	0.76
3	1	1	3	0.39	0.13	0.60	24	2	1	3	0.47	0.70	0.72
5	1	1	1/4	0.49	0.24	0.76	25	2	1	2	0.43	0.25	0.42
6	1	1	3	0.44	0.50	0.71	26	2	1	3	0.53	0.79	0.67
7	1	1	2	0.26	0.13	0.75	28	2	1	3	0.40	0.55	0.72
8	1	1	2	0.37	0.30	0.40	29	2	1	2	0.37	1.20	0.54
9	1	1	2	0.33	0.25	0.65	30	2	1	3	0.44	1.51	0.82
10	1	1	2	0.45	0.70	0.64	31	2	1	3	0.42	0.57	0.75
11	1	1	1/4	0.27	0.26	0.41	33	2	1	2	0.36	0.97	0.40
12	1	1	1/4	0.26	0.31	0.76	34	2	1	2	0.54	1.30	0.75
14	1	1	1/4	0.43	0.57	0.84	35	2	1	3	0.51	1.35	0.74
15	1	1	1/4	0.37	0.64	0.46	36	2	1	3	0.40	2.12	0.69
17	1	1	3	0.43	1.03	0.77	37	2	1	3	0.53	1.70	0.61
18	1	1	3	0.44	1.15	0.89	38	2	1	3	0.47	2.06	0.69
19	2	1	1/4	0.37	0.05	0.80	39	2	1	2	0.16	2.27	0.40

**Table 21. Constructed-Response Item Analyses, Grade 3 Reading**Mean Item-Total Corr.: 0.48 Mean *p*-Value: 0.45

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
4		1	1	1/4	0.53	20.70	55.32	22.23			1.75	0.50
13		1	1	1/4	0.41	23.08	33.55	29.79	11.54		2.05	0.43
16		1	1	1/4	0.35	20.70	19.41	57.64			2.26	0.67
20		2	1	1/4	0.42	20.01	43.42	33.12	2.46		1.01	0.39
23		2	1	1/4	0.39	38.44	34.27	23.51	2.43		1.35	0.30
27		2	1	2	0.59	37.41	38.63	20.81			3.15	0.40
32		2	1	2	0.47	16.69	44.55	28.72	7.69		2.35	0.42
40		2	1	2	0.64	35.34	23.78	35.37			5.51	0.47

**Table 22. Multiple-Choice Item Analyses, Grade 3 Reading (Spanish)**Mean Item-Total Corr.: 0.32 Mean *p*-Value: 0.61

Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value
3	1	1	2	0.33	0.29	0.28	21	2	1	1/4	0.37	0.58	0.95
4	1	1	2	0.17	0.07	0.67	22	2	1	1/4	0.37	0.14	0.72
5	1	1	3	0.19	0.29	0.32	23	2	1	1/4	0.45	0.00	0.87
6	1	1	3	0.19	0.36	0.24	24	2	1	3	0.35	0.07	0.87
7	1	1	1/4	0.30	0.22	0.31	27	2	1	2	0.28	0.36	0.89
9	1	1	3	0.32	0.29	0.43	28	2	1	3	0.40	0.07	0.78
10	1	1	3	0.28	0.43	0.63	29	2	1	3	0.29	0.00	0.75
11	1	1	1/4	0.40	0.29	0.69	30	2	1	2	0.39	0.22	0.53
12	1	1	1/4	0.30	0.80	0.54	31	2	1	2	0.40	0.51	0.64
13	1	1	1/4	0.26	1.30	0.34	33	2	1	2	0.33	0.22	0.58
14	1	1	1/4	-0.05	0.87	0.37	34	2	1	2	0.23	0.65	0.48
15	1	1	3	0.43	1.52	0.80	35	2	1	3	0.02	1.01	0.34
16	1	1	1/4	0.39	1.59	0.86	37	2	1	1/4	0.55	0.58	0.76
18	1	1	1/4	0.40	8.61	0.73	38	2	1	3	0.41	0.72	0.62
19	1	1	1/4	0.47	4.27	0.77	39	2	1	1/4	0.37	0.80	0.58
20	1	1	3	0.43	4.70	0.66	40	2	1	3	0.34	0.58	0.63



**Table 23. Constructed-Response Item Analyses, Grade 3 Reading (Spanish)**Mean Item-Total Corr.: 0.50 Mean *p*-Value: 0.60

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
1		1	1	2	0.49	25.33	9.91	23.08	40.81		0.87	0.60
2		1	1	2	0.56	23.88	6.22	9.12	59.33		1.45	0.67
8		1	1	1/4	0.53	21.13	36.98	40.59			1.30	0.59
17		1	1	1/4	0.49	11.94	19.90	31.84	33.79		2.53	0.62
25		2	1	1/4	0.48	9.33	23.95	66.06			0.65	0.78
26		2	1	1/4	0.45	43.05	8.10	47.76			1.09	0.52
32		2	1	2	0.47	25.98	33.65	30.68	8.97		0.72	0.41
36		2	1	1/4	0.55	24.02	33.14	41.82			1.01	0.58

**Table 24. Multiple-Choice Item Analyses, Grade 3 Writing**Mean Item-Total Corr.: 0.38 Mean *p*-Value: 0.76

Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value
2	1	2		0.47	0.07	0.78	21	2	3	7	0.39	0.11	0.91
3	1	2		0.27	0.17	0.69	22	2	3	7	0.38	0.10	0.79
4	1	3	7	0.48	0.40	0.82	23	2	3	7	0.48	0.28	0.80
5	1	3	7	0.42	0.60	0.79	24	2	3	7	0.43	0.16	0.78
6	1	3	7	0.48	0.15	0.90	25	2	3	7	0.41	0.24	0.88
7	1	3	7	0.29	0.39	0.94	26	2	2	5	0.40	0.16	0.88
8	1	3	8	0.31	0.31	0.58	27	2	3	8	0.37	0.50	0.77
9	1	3	8	0.29	0.42	0.79	29	2	3	8	0.39	0.58	0.65
11	1	2	5	0.24	0.29	0.56	30	2	3	8	0.33	0.55	0.85
12	1	2	5	0.32	0.35	0.75	31	2	3	8	0.28	0.58	0.42
13	1	2		0.37	5.13	0.84	32	2	3	7	0.49	0.99	0.74
14	1	2		0.37	2.02	0.81	33	2	2	5	0.34	1.06	0.83
15	1	3	7	0.41	0.88	0.58	34	2	2		0.45	0.21	0.78
16	1	2		0.38	0.69	0.83	35	2	3	8	0.45	0.33	0.67
17	1	3	7	0.36	1.13	0.72	36	2	3	8	0.40	0.29	0.71
18	1	2	5	0.40	0.45	0.77	37	2	3	8	0.47	0.61	0.76
19	1	2	5	0.36	0.60	0.50	38	2	3	7	0.35	1.04	0.66
20	2	3	7	0.44	0.08	0.91							

**Table 25. Constructed-Response Item Analyses, Grade 3 Writing**Mean Item-Total Corr.: 0.45 Mean *p*-Value: 0.75

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
1	A	1	3	7	0.40	7.88	91.95				0.16	0.92
1	B	1	3	7	0.21	4.50	95.29				0.20	0.95
1	C	1	3	8	0.48	31.03	68.78				0.19	0.69
1	D	1	3	7	0.50	18.28	81.53				0.19	0.82
1	E	1	3	8	0.38	55.62	44.16				0.22	0.44
1	F	1	3	8	0.43	32.14	67.66				0.20	0.68
10	A	1	2	5	0.51	8.23	65.35	25.91			0.51	0.59
10	B	1	2	5	0.51	21.05	78.44				0.51	0.78
10	C	1	2	5	0.55	35.28	64.22				0.50	0.64
10	D	1	3	5	0.57	28.66	70.83				0.50	0.71
28	A	2	2	5	0.34	0.87	75.70	23.00			0.44	0.61
28	B	2	2	5	0.33	3.09	96.48				0.43	0.96
28	C	2	2	5	0.49	19.04	80.53				0.43	0.81
28	D	2	3	5	0.49	12.68	86.89				0.43	0.87
39	A	2	2	5	0.44	2.98	68.16	28.06			0.81	0.62
39	B	2	2	5	0.41	9.00	90.20				0.80	0.90
39	C	2	2	5	0.52	31.06	68.14				0.80	0.68
39	D	2	3	5	0.50	16.96	82.24				0.80	0.82

**Table 26. Multiple-Choice Item Analyses, Grade 3 Writing (Spanish)**Mean Item-Total Corr.: 0.36 Mean *p*-Value: 0.72

Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value
1	1	3	7	0.35	0.22	0.88	21	2	3	8	0.36	0.14	0.75
2	1	3	7	0.42	0.29	0.86	22	2	3	8	0.36	0.14	0.62
3	1	3	7	0.41	0.43	0.90	23	2	3	8	0.38	0.07	0.78
5	1	3	7	0.33	0.00	0.59	24	2	3	8	0.33	0.00	0.71
6	1	3	7	0.30	0.22	0.81	25	2	3	8	0.42	0.00	0.80
7	1	3	7	0.26	0.29	0.70	26	2	3	8	0.31	0.22	0.41
8	1	3	7	0.27	1.22	0.54	28	2	3	7	0.29	0.00	0.69
9	1	3	7	0.34	2.01	0.49	29	2	3	7	0.39	0.29	0.89
10	1	3	7	0.28	0.00	0.94	30	2	3	7	0.41	0.29	0.85
11	1	3	7	0.36	0.14	0.84	31	2	3	7	0.50	0.72	0.74
12	1	3	7	0.39	0.65	0.92	32	2	3	7	0.39	0.86	0.62
13	1	2		0.36	0.43	0.77	33	2	2		0.41	1.36	0.68
14	1	2		0.36	0.43	0.77	34	2	2		0.39	0.22	0.93
15	1	2	7	0.40	0.29	0.82	35	2	2		0.39	0.43	0.93
17	1	2		0.43	0.79	0.77	36	2	2		0.42	0.86	0.72
18	1	2		0.19	0.86	0.21	37	2	2		0.35	0.72	0.54
19	1	2		0.17	0.93	0.26	38	2	2		0.32	0.79	0.78
20	2	3	8	0.40	0.00	0.72							

**Table 27. Constructed-Response Item Analyses, Grade 3 Writing (Spanish)**Mean Item-Total Corr.: 0.49 Mean *p*-Value: 0.69

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
4	A	1	3	8	0.39	16.79	82.43				0.79	0.82
4	B	1	3	7	0.32	72.96	26.26				0.79	0.26
4	C	1	3	8	0.48	31.49	67.72				0.79	0.68
4	D	1	3	8	0.44	35.73	63.49				0.79	0.63
4	E	1	3	7	0.45	43.97	55.24				0.79	0.55
4	F	1	3	7	0.32	18.87	80.34				0.79	0.80
16	A	1	2	5	0.46	8.03	54.52	36.44			1.00	0.64
16	B	1	2	5	0.50	15.21	83.79				1.00	0.84
16	C	1	2	5	0.54	23.03	75.97				1.00	0.76
16	D	1	3	5	0.47	8.90	90.10				1.00	0.90
27	A	2	2	5	0.55	19.23	44.98	35.22			0.57	0.58
27	B	2	2	5	0.61	28.69	70.73				0.57	0.71
27	C	2	2	5	0.62	30.78	68.65				0.57	0.69
27	D	2	3	5	0.57	17.43	81.99				0.57	0.82
39	A	2	2	5	0.52	21.38	37.66	39.96			1.00	0.59
39	B	2	2	5	0.53	30.13	68.87				1.00	0.69
39	C	2	2	5	0.55	34.15	64.85				1.00	0.65
39	D	2	3	5	0.49	18.94	80.06				1.00	0.80

**Table 28. Multiple-Choice Item Analyses, Grade 3 Mathematics**Mean Item-Total Corr.: 0.40 Mean *p*-Value: 0.70

Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value
1	1	4/5		0.30	0.12	0.29	21	2	4/5		0.22	0.16	0.97
2	1	2/3		0.47	0.22	0.51	22	2	6		0.21	0.20	0.66
3	1	1		0.37	0.55	0.63	23	2	2/3		0.40	0.29	0.36
4	1	4/5		0.36	0.30	0.50	24	2	4/5		0.35	0.16	0.91
5	1	1		0.33	0.41	0.74	25	2	2/3		0.52	0.31	0.60
7	1	4/5		0.35	5.66	0.86	27	2	2/3		0.51	0.59	0.56
8	1	4/5		0.24	1.54	0.54	28	2	4/5		0.23	0.69	0.95
9	1	2/3		0.45	0.24	0.64	29	2	4/5		0.35	0.56	0.90
10	1	2/3		0.47	0.41	0.86	31	2	2/3		0.52	0.76	0.76
12	1	4/5		0.15	1.11	0.64	32	2	4/5		0.37	0.36	0.76
13	1	6		0.42	2.53	0.66	33	2	1		0.53	0.49	0.69
14	1	2/3		0.40	1.23	0.85	34	2	4/5		0.55	0.31	0.80
16	1	6		0.50	1.17	0.59	35	2	6		0.41	1.29	0.73
17	1	6		0.40	0.88	0.87	37	2	1		0.47	0.45	0.62
18	1	1		0.43	0.44	0.70	38	2	4/5		0.57	0.35	0.59
19	1	1		0.44	0.51	0.80	39	2	2/3		0.59	0.38	0.73

**Table 29. Constructed-Response Item Analyses, Grade 3 Mathematics**Mean Item-Total Corr.: 0.52 Mean *p*-Value: 0.50

Item #	Part	Session	CS	SA	Item-Total	% Score	% Score	% Score	% Score	% Score	Omit %	<i>p</i> -Value
					Corr.	0	1	2	3	4		
6		1	6		0.59	23.15	59.10	17.49			0.25	0.47
11		1	4/5		0.50	12.74	28.09	59.03			0.14	0.73
15		1	1		0.40	75.85	15.95	7.22			0.97	0.15
20		1	4/5		0.45	6.05	21.13	39.92	32.53		0.37	0.66
26		2	1		0.51	32.15	28.96	38.58			0.32	0.53
30		2	2/3		0.57	40.25	12.76	45.75			1.25	0.52
36		2	2/3		0.62	34.43	11.33	53.64			0.59	0.59
40		2	6		0.55	31.44	30.82	27.52	9.31		0.92	0.38

**Table 30. Multiple-Choice Item Analyses, Grade 4 Reading**Mean Item-Total Corr.: 0.40 Mean *p*-Value: 0.68

Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value
4	3	1	1/4	0.39	0.07	0.87	39	4	4	2	0.42	0.09	0.59
5	3	1	3	0.38	0.08	0.81	40	4	5		0.44	0.22	0.78
7	3	1	3	0.28	1.94	0.91	41	4	6	2	0.51	0.52	0.75
9	3	1	3	0.34	0.34	0.94	43	4	1	2	0.51	0.31	0.87
10	3	5		0.33	0.89	0.68	44	4	4	2	0.46	0.69	0.73
11	3	4	2	0.35	0.22	0.57	46	4	5		0.34	0.40	0.60
12	3	5		0.43	0.32	0.56	47	4	1	1/4	0.48	0.31	0.76
13	3	1	3	0.46	0.47	0.86	48	4	6	1/4	0.31	0.34	0.61
14	3	5		0.32	0.21	0.88	50	4	1	1/4	0.36	0.54	0.56
15	3	5		0.32	0.35	0.55	52	4	5		0.46	2.05	0.73
16	3	6	1/4	0.44	0.21	0.66	53	4	1	3	0.31	2.13	0.85
17	3	1	3	0.11	0.37	0.33	96	6	4	2	0.50	0.10	0.73
18	3	1	3	0.22	0.40	0.45	97	6	4	2	0.39	0.30	0.78
20	3	4	1/4	0.16	1.32	0.38	98	6	4	2	0.39	0.30	0.90
22	3	6	1/4	0.29	0.99	0.46	99*	6	5		-0.22	0.65	0.11
23	3	6	1/4	0.39	1.19	0.47	100	6	5		0.40	0.45	0.50
24	3	6	1/4	0.42	1.39	0.55	101	6	1	3	0.42	0.29	0.90
25	3	1	1/4	0.55	1.91	0.81	102	6	5		0.48	0.50	0.74
26	3	1	1/4	0.55	2.14	0.63	104	6	1	2	0.47	0.30	0.55
28	3	1	3	0.47	3.22	0.70	105	6	1	3	0.52	0.48	0.78
29	3	6	1/4	0.50	4.16	0.75	107	6	1	3	0.45	0.42	0.81
31	3	5		0.47	4.97	0.76	108	6	1	2	0.39	0.88	0.62
32	4	4	1/4	0.27	0.15	0.36	109	6	1	3	0.46	0.94	0.91
33	4	6	1/4	0.35	0.17	0.82	110	6	1	3	0.48	0.51	0.89
34	4	1	1/4	0.44	0.18	0.70	111	6	1	1/4	0.45	0.39	0.61
36	4	4	1/4	0.35	0.27	0.59	112	6	4	1/4	0.33	0.94	0.54
37	4	5		0.36	0.27	0.73	113	6	5		0.32	1.32	0.48
38	4	5		0.34	0.20	0.33	115	6	6	1/4	0.47	1.64	0.89



**Table 31. Constructed-Response Item Analyses, Grade 4 Reading**Mean Item-Total Corr.: 0.50 Mean *p*-Value: 0.51

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
6		3	1	1/4	0.46	4.52	4.62	8.33	82.17		0.36	0.89
8		3	1	1/4	0.42	11.73	16.82	70.23			1.22	0.79
19		3	5		0.55	41.58	30.51	23.27			4.65	0.39
21		3	6	1/4	0.47	58.76	25.54	10.92	1.82		2.96	0.18
27		3	4	1/4	0.59	11.25	52.52	33.16			3.07	0.59
30		3	1	1/4	0.62	19.68	33.00	40.96			6.36	0.57
35		4	4	1/4	0.36	21.19	39.37	27.12	11.38		0.94	0.43
42		4	4	2	0.47	13.45	39.89	29.32	16.06		1.29	0.49
45		4	1	2	0.48	28.60	47.48	19.60	2.88		1.44	0.32
49		4	6	1/4	0.58	28.76	29.96	15.87	23.87		1.55	0.44
51		4	1	1/4	0.43	56.49	34.94	6.18			2.39	0.24
103		6	5		0.45	10.08	14.62	74.64			0.65	0.82
106		6	1	2	0.58	33.35	44.01	18.82			3.82	0.41
114		6	6	1/4	0.55	23.43	19.50	18.33	37.40		1.35	0.56

**Table 32. Multiple-Choice Item Analyses, Grade 4 Reading (Spanish)**Mean Item-Total Corr.: 0.35 Mean  $p$ -Value: 0.60

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
4	3	1	2	0.50	1.31	0.46	39	4	5		0.33	4.58	0.68
5	3	5		0.45	0.00	0.57	40	4	1	1/4	0.41	1.96	0.69
6	3	6	2	0.17	0.65	0.78	41	4	1	1/4	0.49	1.96	0.48
7	3	5		0.15	0.00	0.31	43	4	1	1/4	0.26	3.27	0.37
8	3	6	2	0.07	0.65	0.33	46	4	1	3	0.53	3.27	0.72
9	3	4	2	0.40	1.31	0.69	47	4	6	3	0.07	3.27	0.34
10	3	4	2	0.46	1.31	0.65	48	4	5		0.15	3.27	0.26
11	3	1	3	0.23	0.65	0.68	91	6	1	2	0.36	0.00	0.88
12	3	6	2	0.13	0.65	0.44	92	6	1	3	0.46	0.00	0.67
15	3	4	1/4	0.29	1.96	0.76	93	6	1	3	0.37	0.00	0.44
16	3	1	1/4	0.50	1.96	0.75	94	6	1	2	0.21	0.00	0.73
17	3	4	1/4	0.36	1.96	0.84	95	6	1	2	0.46	0.65	0.83
18	3	1	1/4	0.47	2.61	0.71	96	6	1	2	0.36	0.00	0.61
19	3	6	1/4	0.26	2.61	0.88	99	6	6	1/4	0.19	0.00	0.54
20	3	1	1/4	0.04	2.61	0.54	101	6	4	1/4	0.48	0.00	0.45
21	3	1	1/4	0.53	2.61	0.46	102	6	4	1/4	0.28	0.00	0.34
22	3	1	1/4	0.52	2.61	0.51	103	6	1	3	0.53	1.31	0.76
23	3	6	1/4	0.30	2.61	0.52	104	6	1	3	0.36	3.27	0.68
24	3	6	1/4	0.37	2.61	0.80	105	6	5		0.44	3.27	0.61
26	4	1	2	0.12	0.00	0.41	106	6	5		0.22	1.31	0.35
27	4	1	3	0.42	0.00	0.79	107	6	5		0.35	0.65	0.51
28	4	4	2	0.41	0.00	0.71	109	6	1	2	0.43	1.31	0.65
30	4	4	2	0.25	0.00	0.48	110	6	1	2	0.32	1.96	0.58
32	4	4	2	0.34	0.65	0.39	111	6	4	2	0.59	1.31	0.67
35	4	4	1/4	0.35	1.96	0.76	112	6	1	3	0.45	2.61	0.62
36	4	1	1/4	0.57	0.65	0.58	113	6	1	3	0.43	2.61	0.71
37	4	1	3	0.32	1.31	0.79	114	6	5		0.51	2.61	0.72
38	4	5		0.31	3.27	0.42	115	6	5		0.45	1.96	0.52

**Table 33. Constructed-Response Item Analyses, Grade 4 Reading (Spanish)**Mean Item-Total Corr.: 0.48 Mean *p*-Value: 0.39

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
13		3	1	2	0.57	25.49	26.14	37.91	7.19		3.27	0.41
14		3	5		0.28	41.18	34.64	18.30			5.88	0.36
29		4	5		0.65	13.07	15.69	16.99	52.29		1.96	0.69
31		4	4	2	0.48	67.32	15.69	11.77			5.23	0.20
33		4	6	1/4	0.48	35.29	35.29	18.30	9.80		1.31	0.34
34		4	1	1/4	0.72	30.72	24.84	22.22	18.95		3.27	0.42
42		4	1	1/4	0.28	64.71	22.88	6.54			5.88	0.18
44		4	6	1/4	0.57	34.64	22.22	38.56			4.58	0.50
45		4	4	1/4	0.45	41.18	35.29	12.42	5.23		5.88	0.25
97		6	4	1/4	0.28	50.98	34.64	13.07			1.31	0.30
98		6	6	1/4	0.51	44.44	28.11	10.46	13.73		3.27	0.30
100		6	6	1/4	0.49	50.98	37.26	9.80			1.96	0.28
108		6	1	2	0.52	24.18	17.65	55.56			2.61	0.64
116		6	5		0.39	20.92	3.27	67.97	5.88		1.96	0.52

**Table 34. Multiple-Choice Item Analyses, Grade 4 Writing**Mean Item-Total Corr.: 0.39 Mean  $p$ -Value: 0.71

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
54	5	2	5	0.35	0.12	0.66	74	5	3	8	0.39	0.63	0.80
55	5	3	7	0.24	0.24	0.94	75	5	2		0.32	0.97	0.87
56	5	2		0.38	0.21	0.71	76	5	2		0.36	2.01	0.53
57	5	2		0.42	0.32	0.85	78	5	3	7	0.40	0.90	0.57
58	5	2		0.32	0.54	0.74	79	5	3	7	0.47	1.45	0.73
59	5	3	7	0.37	0.43	0.61	80	5	3	7	0.49	1.75	0.84
60	5	3	7	0.40	0.76	0.61	81	5	3	7	0.43	2.17	0.84
61	5	3	8	0.27	0.62	0.42	82	5	3	7	0.44	1.23	0.80
62	5	2	5	0.34	0.37	0.78	83	5	3	7	0.50	1.50	0.83
63	5	3	7	0.47	1.04	0.79	84	5	3	8	0.50	1.64	0.69
64	5	3	8	0.45	0.44	0.76	85	5	3	8	0.51	1.64	0.82
65	5	3	7	0.39	0.81	0.56	86	5	3	8	0.43	2.32	0.55
66	5	2	5	0.29	0.36	0.77	87	5	3	7	0.30	3.02	0.81
67	5	2	5	0.35	0.43	0.86	88	5	2	5	0.43	1.87	0.84
68	5	2	5	0.34	0.67	0.57	89	5	3	8	0.44	2.11	0.69
69	5	2	5	0.32	0.74	0.63	90	5	2	5	0.27	2.26	0.55
70	5	3	8	0.40	1.55	0.60	91	5	2	5	0.52	2.92	0.68
71	5	2		0.35	1.43	0.91	92	5	3	8	0.45	2.51	0.74
72	5	3	8	0.36	0.79	0.56	93	5	3	8	0.49	3.03	0.78
73	5	3	8	0.34	1.12	0.69	94	5	3	8	0.46	3.18	0.58

**Table 35. Constructed-Response Item Analyses, Grade 4 Writing**Mean Item-Total Corr.: 0.41 Mean *p*-Value: 0.57

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
1		1	2	6	0.13	1.76	98.24				0.00	0.98
2	A	2	3	7	0.25	72.88	26.77				0.35	0.27
2	B	2	3	7	0.39	20.22	79.44				0.34	0.79
2	C	2	3	7	0.12	76.59	23.07				0.34	0.23
2	D	2	3	8	0.46	23.59	76.06				0.34	0.76
2	E	2	3	8	0.15	74.96	24.68				0.36	0.25
2	F	2	3	8	0.46	54.15	45.44				0.41	0.45
3	A	2	2	6	0.62	2.82	7.68	35.78	40.65	12.80	0.27	0.63
3	B	2	2	6	0.64	0.00	9.17	39.14	39.13	12.29	0.27	0.63
3	C	2	3	6	0.49	1.00	12.01	86.72			0.27	0.93
77		5	2	5	0.49	0.32	10.75	53.37	31.01	2.91	1.65	0.56
95		5	2	5	0.50	1.38	17.50	48.92	22.49	3.90	5.81	0.50
116		5	2	5	0.58	1.73	22.47	50.27	20.05	2.95	2.54	0.49

**Table 36. Multiple-Choice Item Analyses, Grade 4 Writing (Spanish)**Mean Item-Total Corr.: 0.32 Mean *p*-Value: 0.52

Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value
49	5	3	7	0.42	0.68	0.79	70	5	3	7	0.40	0.00	0.39
50	5	3	7	0.32	0.00	0.82	71	5	3	7	0.26	2.04	0.59
51	5	2		0.37	0.00	0.78	72	5	3	8	0.18	0.00	0.52
52	5	2		0.28	0.00	0.46	73	5	3	8	0.11	0.00	0.32
53	5	2		0.27	0.00	0.97	74	5	3	8	0.37	0.68	0.62
54	5	3	7	0.40	0.00	0.62	75	5	3	8	0.27	4.08	0.33
55	5	2		0.41	0.00	0.77	76	5	3	7	0.35	0.68	0.29
56	5	3	7	0.32	1.36	0.84	77	5	3	7	0.21	0.68	0.42
57	5	2	5	0.27	0.68	0.46	78	5	3	7	0.17	2.72	0.31
58	5	2	5	0.42	0.00	0.53	79	5	3	8	0.16	0.68	0.54
59	5	2	5	0.36	0.00	0.46	80	5	3	8	0.42	0.68	0.30
60	5	2	5	0.40	0.00	0.53	81	5	3	8	0.30	4.08	0.39
61	5	2	5	0.41	0.00	0.50	82	5	3	8	0.39	3.40	0.41
62	5	2	5	0.29	0.00	0.39	83	5	3	8	0.34	2.04	0.45
64	5	3	7	0.30	0.00	0.41	84	5	3	8	0.21	2.04	0.40
65	5	3	7	0.39	0.00	0.73	85	5	3	8	0.34	3.40	0.39
66	5	3	7	0.18	0.00	0.61	86	5	3	8	0.12	2.04	0.38
67	5	3	7	0.49	0.00	0.58	87	5	2		0.40	2.72	0.43
68	5	3	7	0.29	4.76	0.57	88	5	2		0.44	2.04	0.72
69	5	3	7	0.30	6.12	0.52	89	5	2		0.29	2.04	0.41

**Table 37. Constructed-Response Item Analyses, Grade 4 Writing (Spanish)**Mean Item-Total Corr.: 0.43 Mean *p*-Value: 0.54

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
1		1	2	6	0.12	3.40	96.60				0.00	0.97
2	A	2	3	7	0.42	13.61	85.71				0.68	0.86
2	B	2	3	7	0.46	36.05	63.27				0.68	0.63
2	C	2	3	7	0.40	31.29	68.03				0.68	0.68
2	D	2	3	8	0.34	27.21	72.11				0.68	0.72
2	E	2	3	7	0.37	57.14	42.18				0.68	0.42
2	F	2	3	8	0.31	86.40	12.93				0.68	0.13
3	A	2	2	6	0.54	36.05	10.20	37.42	12.93	2.04	1.36	0.33
3	B	2	2	6	0.52	0.00	28.57	54.42	12.93	2.72	1.36	0.47
3	C	2	3	6	0.61	6.12	44.22	48.30			1.36	0.70
25		5	2	5	0.53	24.49	31.29	24.49	10.88	2.04	6.80	0.30
63		5	2	5	0.56	10.20	23.81	42.18	20.41	2.04	1.36	0.44
90		5	2	5	0.37	8.16	34.69	37.42	12.93	2.72	4.08	0.40

**Table 38. Multiple-Choice Item Analyses, Grade 4 Mathematics**Mean Item-Total Corr.: 0.40 Mean  $p$ -Value: 0.67

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
1	1	2	2	0.51	0.06	0.61	36	2	3		0.36	0.27	0.83
2	1	4/5		0.38	0.21	0.49	37	2	1	1	0.41	0.42	0.89
3	1	6		0.41	0.56	0.81	38	2	1	1	0.32	0.65	0.39
4	1	3		0.50	0.67	0.67	39	2	4/5		0.21	0.25	0.85
6	1	1	1	0.25	0.50	0.36	40	2	3		0.52	0.17	0.69
7	1	6		0.43	0.96	0.60	42	2	1	1	0.32	0.53	0.62
8	1	2	2	0.52	0.41	0.67	43	2	4/5		0.44	0.34	0.71
9	1	6		0.43	1.09	0.76	44	2	4/5		0.40	0.34	0.55
10	1	3		0.44	0.24	0.72	45	2	3		0.50	0.35	0.47
11	1	4/5	3	0.15	0.41	0.37	47	3	6		0.55	0.09	0.77
13	1	3		0.46	0.42	0.72	48	3	3		0.46	0.15	0.73
14	1	6		0.55	1.07	0.63	49	3	4/5	3	0.55	0.21	0.60
15	1	4/5		0.27	0.21	0.88	50	3	1	1	0.34	0.14	0.85
17	1	6		0.44	1.40	0.72	52	3	4/5	3	0.29	0.26	0.64
19	1	2	2	0.39	0.75	0.85	53	3	6		0.26	0.49	0.67
20	1	4/5		0.43	1.73	0.72	54	3	1	1	0.35	0.29	0.72
21	1	4/5		0.26	0.91	0.41	55	3	4/5	3	0.24	0.38	0.86
22	1	2	2	0.51	1.07	0.55	56	3	4/5		0.48	0.62	0.62
24	2	3		0.50	0.11	0.57	58	3	4/5		0.40	0.81	0.61
25	2	2	2	0.42	0.09	0.74	59	3	6	1	0.41	0.97	0.48
26	2	1	1	0.51	0.53	0.63	61	3	6		0.44	0.67	0.71
28	2	4/5	3	0.30	0.31	0.57	62	3	1		0.56	0.37	0.64
29	2	4/5	3	0.50	0.19	0.73	63	3	3		0.25	0.37	0.51
30	2	6		0.30	1.64	0.87	64	3	2	2	0.48	0.28	0.67
32	2	6		0.27	4.37	0.90	65	3	1		0.25	0.38	0.60
33	2	4/5		0.50	0.38	0.75	67	3	6		0.48	1.29	0.78
34	2	1	1	0.35	0.46	0.62	68	3	4/5		0.22	0.32	0.95



**Table 39. Constructed-Response Item Analyses, Grade 4 Mathematics**Mean Item-Total Corr.: 0.56 Mean *p*-Value: 0.61

Item #	Part	Session	CS	SA	Item-Total	% Score	% Score	% Score	% Score	% Score	Omit %	<i>p</i> -Value
					Corr.	0	1	2	3	4		
5		1	1	1	0.61	21.41	36.38	36.52			5.69	0.55
12		1	1	1	0.43	1.31	7.24	19.23	72.06		0.17	0.87
16		1	3		0.39	21.94	8.74	68.79			0.53	0.73
18		1	4/5		0.42	3.50	15.63	41.28	39.23		0.36	0.72
23		1	6	1	0.66	7.88	34.23	22.99	19.81	14.18	0.92	0.49
27		2	2	2	0.66	19.33	34.04	46.26			0.37	0.63
31		2	6	1	0.66	13.87	18.97	28.62	38.23		0.31	0.64
35		2	4/5	3	0.49	8.43	21.61	69.74			0.23	0.81
41		2	4/5	3	0.54	6.52	10.24	11.94	71.11		0.19	0.82
46		2	2	2	0.60	11.99	9.32	11.00	9.27	58.05	0.36	0.73
51		3	1	1	0.53	65.08	18.50	16.03			0.39	0.25
57		3	3		0.61	26.23	19.62	19.06	34.51		0.58	0.54
60		3	2	2	0.61	26.05	22.96	50.67			0.31	0.62
66		3	1		0.52	62.38	21.33	5.70	9.86		0.74	0.21
69		3	4/5		0.62	16.53	19.24	20.40	13.33	30.12	0.38	0.55

**Table 40. Multiple-Choice Item Analyses, Grade 5 Reading**

Mean Item-Total Corr.: 0.39 Mean p-Value: 0.67

Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	p-Value
4	3	6	1/4	0.39	0.09	0.73	38	4	5		0.41	0.27	0.58
6*	3	6	1/4	0.09	0.14	0.40	41	4	4	2	0.44	0.28	0.68
7	3	4	1/4	0.49	0.22	0.69	42	4	1	3	0.39	0.27	0.85
8	3	5		0.48	0.10	0.84	43	4	5		0.42	0.31	0.69
9	3	5		0.45	0.17	0.56	44	4	5		0.33	0.25	0.59
10	3	1	1/4	0.33	0.22	0.61	45	4	1	3	0.31	0.62	0.51
11	3	1	1/4	0.27	0.28	0.60	46	4	1	2	0.50	0.43	0.74
13	3	1	3	0.41	0.24	0.92	48	4	1	3	0.52	0.48	0.83
14	3	1	1/4	0.45	0.34	0.66	49	4	5		0.39	0.48	0.58
15	3	4	1/4	0.29	0.54	0.60	50	4	4	2	0.34	1.07	0.57
16	3	5		0.38	0.67	0.66	95	6	4	1/4	0.41	0.25	0.84
18	3	6	1/4	0.40	0.82	0.93	97	6	1	3	0.45	0.19	0.62
19	3	4	1/4	0.51	0.70	0.78	98	6	1	1/4	0.16	0.37	0.25
20	3	5		0.45	0.68	0.78	99	6	5		0.32	0.18	0.60
21	3	5		0.41	0.72	0.73	100	6	5		0.15	0.23	0.26
22	3	5		0.47	0.89	0.85	101	6	4	2	0.40	0.50	0.67
23	3	4	1/4	0.45	1.30	0.68	102	6	5		0.14	0.17	0.55
24	3	1	3	0.36	1.52	0.66	103	6	4	2	0.38	0.24	0.51
26	3	4	1/4	0.38	2.69	0.48	104	6	6	1/4	0.39	0.13	0.68
28	3	4	1/4	0.48	3.34	0.78	105	6	6	1/4	0.28	1.32	0.39
29	3	6	1/4	0.48	5.22	0.76	106	6	6	1/4	0.27	0.40	0.66
30	3	1	1/4	0.46	5.50	0.76	107	6	1	3	0.33	0.38	0.87
31	4	1	2	0.39	0.03	0.87	108	6	4	1/4	0.37	0.79	0.73
32	4	1	2	0.35	0.13	0.43	109	6	1	1/4	0.52	0.51	0.88
34	4	4	2	0.26	0.27	0.39	110	6	1	1/4	0.55	0.48	0.78
35	4	4	2	0.51	0.17	0.81	112	6	1	3	0.47	0.30	0.79
36	4	5		0.35	0.28	0.61	113	6	6	1/4	0.49	0.42	0.85
37	4	5		0.41	0.19	0.61	115	6	4	1/4	0.45	0.76	0.71

**Table 41. Constructed-Response Item Analyses, Grade 5 Reading**Mean Item-Total Corr.: 0.52 Mean *p*-Value: 0.44

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
5		3	6	1/4	0.46	26.07	44.25	24.26	4.84		0.58	0.36
12		3	6	1/4	0.49	26.86	40.59	18.96	11.22		2.37	0.37
17		3	6	1/4	0.47	20.44	20.36	20.54	37.23		1.43	0.58
25		3	1	1/4	0.48	45.31	45.05	5.97			3.67	0.28
27		3	1	1/4	0.54	38.93	45.88	10.26			4.93	0.33
33		4	1	2	0.57	14.77	33.09	37.90	13.26		0.99	0.50
39		4	4	2	0.64	24.19	21.61	29.19	24.02		0.99	0.51
40		4	5		0.53	27.62	45.64	19.54	6.12		1.09	0.34
47		4	1	2	0.57	31.24	51.19	15.50			2.07	0.41
51		4	5		0.51	28.51	42.28	26.98			2.23	0.48
94		6	1	1/4	0.47	51.91	27.81	18.65			1.63	0.33
96		6	6	1/4	0.42	25.14	45.72	16.25	10.48		2.42	0.37
111		6	4	1/4	0.51	5.86	46.78	46.48			0.88	0.70
114		6	1	1/4	0.60	14.40	36.71	46.93			1.97	0.65

**Table 42. Multiple-Choice Item Analyses, Grade 5 Writing**Mean Item-Total Corr.: 0.37 Mean  $p$ -Value: 0.66

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
52	5	3	8	0.43	0.07	0.74	72	5	2	5	0.32	0.35	0.54
53	5	3	7	0.23	0.20	0.72	73	5	3	7	0.33	1.51	0.57
54	5	3	8	0.37	0.21	0.66	75	5	3	8	0.40	0.55	0.89
55	5	2	7	0.32	0.09	0.71	76	5	2	7	0.18	0.84	0.39
56	5	3	8	0.36	0.47	0.76	77	5	2	5	0.49	0.64	0.82
57	5	3	8	0.42	0.68	0.90	78	5	3	8	0.42	0.97	0.51
58	5	3	8	0.31	0.29	0.47	79	5	3	8	0.38	1.33	0.65
59	5	3	8	0.40	0.54	0.65	80	5	2	5	0.23	0.82	0.51
60	5	3	8	0.49	0.38	0.83	81	5	3	7	0.47	1.50	0.75
61	5	2	8	0.48	0.24	0.74	82	5	2	5	0.39	1.08	0.62
62	5	3	7	0.19	0.71	0.31	83	5	3	7	0.36	1.73	0.46
63	5	3	7	0.43	1.23	0.81	84	5	3	8	0.42	1.38	0.67
64	5	2	5	0.35	0.48	0.56	85	5	2	5	0.22	1.43	0.34
65	5	2		0.38	0.70	0.82	86	5	3	7	0.37	1.95	0.49
66	5	2		0.24	0.47	0.91	87	5	3	7	0.50	2.01	0.74
67	5	2	8	0.45	0.53	0.89	88	5	3	7	0.42	1.77	0.90
68	5	3	7	0.42	1.42	0.65	89	5	3	7	0.39	1.96	0.62
69	5	3	7	0.42	0.87	0.73	90	5	2	5	0.37	2.00	0.62
70	5	3	7	0.21	1.05	0.30	91	5	2	5	0.40	2.42	0.59
71	5	2	5	0.22	0.34	0.60	92	5	3	7	0.46	2.79	0.85

**Table 43. Constructed-Response Item Analyses, Grade 5 Writing**

Mean Item-Total Corr.: 0.42 Mean *p*-Value: 0.73

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
1		1	2	6	0.12	1.42	98.58				0.00	0.99
2	A	2	3	8	0.49	48.49	51.29				0.22	0.51
2	B	2	3	8	0.39	32.12	67.66				0.22	0.68
2	C	2	3	7	0.37	29.00	70.80				0.20	0.71
2	D	2	3	8	0.15	4.82	94.93				0.24	0.95
2	E	2	3	7	0.45	13.94	85.85				0.21	0.86
2	F	2	3	7	0.38	27.69	72.09				0.22	0.72
3	A	2	2	6	0.60	2.56	3.36	27.96	44.61	21.24	0.26	0.70
3	B	2	2	6	0.64	0.00	4.67	31.38	43.12	20.55	0.27	0.70
3	C	2	3	6	0.43	0.66	8.05	91.03			0.26	0.95
74		5	2	5	0.49	0.29	6.31	40.96	43.69	7.39	1.36	0.62
93		5	2	5	0.52	0.62	19.43	49.52	22.57	2.76	5.10	0.49
116		5	2	5	0.49	0.30	4.70	43.62	44.87	4.81	1.69	0.61

**Table 44. Multiple-Choice Item Analyses, Grade 5 Mathematics**Mean Item-Total Corr.: 0.40 Mean  $p$ -Value: 0.67

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
1	1	6	1	0.52	0.30	0.58	35	2	1	1	0.50	0.33	0.79
2	1	4/5		0.39	0.05	0.87	36	2	2		0.32	0.47	0.38
3	1	4/5		0.20	0.15	0.45	37	2	6		0.54	0.45	0.70
4	1	4/5		0.32	0.31	0.55	39	2	6		0.37	0.43	0.92
5	1	6		0.45	0.56	0.81	40	2	2	2	0.42	0.21	0.80
7	1	1	1	0.38	0.33	0.67	42	2	4/5		0.51	0.48	0.67
8	1	1	1	0.47	1.57	0.46	43	2	1		0.58	0.54	0.69
9	1	2	2	0.45	0.36	0.80	44	2	6	1	0.56	0.52	0.75
11	1	3	3	0.39	0.20	0.84	45	2	3	3	0.38	0.60	0.72
12	1	1		0.42	0.28	0.86	47	3	1	1	0.47	0.13	0.79
13	1	2		0.35	0.48	0.38	48	3	4/5		0.43	0.06	0.56
14	1	6		0.30	0.27	0.92	49	3	6		0.45	0.63	0.70
16	1	1	1	0.46	0.17	0.70	50	3	2	2	0.41	0.17	0.76
17	1	1	1	0.47	0.26	0.77	51	3	1	1	0.39	0.26	0.85
18	1	3	3	0.53	0.21	0.45	53	3	3	2	0.48	0.27	0.56
19	1	6		0.38	0.41	0.85	54	3	2		0.18	0.53	0.50
21	1	6	1	0.30	0.58	0.44	55	3	4/5		0.48	0.27	0.60
22	1	1	1	0.21	0.73	0.47	56	3	6		0.38	0.72	0.88
24	2	4/5	3	0.51	0.13	0.65	58	3	4/5		0.31	0.41	0.63
25	2	6		0.49	0.83	0.76	60	3	1		0.34	0.27	0.75
26	2	3		0.43	0.57	0.59	61	3	6		0.27	0.49	0.91
28	2	6		0.25	0.36	0.90	62	3	2	2	0.50	0.26	0.62
29	2	2	2	0.45	0.27	0.59	64	3	4/5		0.37	0.24	0.53
30	2	1	1	0.36	0.71	0.48	65	3	1	1	0.38	0.48	0.70
31	2	4/5		0.24	0.32	0.28	66	3	1	3	0.32	0.37	0.39
32	2	4/5		0.29	0.29	0.93	67	3	6		0.47	1.20	0.72
34	2	3		0.47	0.36	0.56	68	3	3	3	0.39	0.63	0.50

**Table 45. Constructed-Response Item Analyses, Grade 5 Mathematics**Mean Item-Total Corr.: 0.58 Mean *p*-Value: 0.52

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
6		1	4/5		0.59	11.72	41.47	46.55			0.27	0.67
10		1	3		0.49	2.92	63.56	15.94	17.19		0.39	0.49
15		1	3	3	0.33	13.13	6.76	79.85			0.27	0.83
20		1	1	1	0.52	5.42	21.99	46.65	25.59		0.35	0.64
23		1	2	2	0.61	6.48	14.41	39.71	26.57	12.07	0.76	0.55
27		2	2	2	0.61	11.07	31.55	57.05			0.33	0.73
33		2	3	3	0.69	47.76	19.36	18.33	13.72		0.85	0.32
38		2	6	1	0.57	63.52	16.39	18.92			1.18	0.27
41		2	4/5		0.70	53.66	14.51	15.91	14.84		1.07	0.30
46		2	4/5		0.63	3.84	15.26	18.48	20.27	41.57	0.59	0.70
52		3	2	2	0.51	23.79	51.68	24.21			0.33	0.50
57		3	6	1	0.63	10.15	17.37	30.34	41.88		0.26	0.68
59		3	1		0.66	42.49	14.24	42.48			0.79	0.50
63		3	2	2	0.54	63.64	23.57	8.72	3.59		0.48	0.17
69		3	3	3	0.64	5.27	26.52	40.49	15.16	12.13	0.43	0.50

**Table 46. Multiple-Choice Item Analyses, Grade 6 Reading**Mean Item-Total Corr.: 0.37 Mean  $p$ -Value: 0.67

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
5	3	4	1/4	0.34	0.46	0.87	38	4	4	1/4	0.42	0.34	0.76
7	3	1	3	0.49	0.10	0.71	39	4	5		0.37	0.44	0.62
8	3	1	1/4	0.24	0.37	0.30	41	4	1	2	0.19	0.54	0.37
9	3	6	1/4	0.23	0.28	0.56	42	4	5		0.32	0.87	0.69
10	3	5		0.34	0.16	0.58	43	4	5		0.30	0.76	0.59
11	3	6	1/4	0.37	0.11	0.89	44	4	6	2	0.27	0.89	0.32
13	3	1	2	0.40	0.21	0.54	47	4	1	3	0.46	2.05	0.49
14	3	1	2	0.44	0.39	0.64	48	4	4	2	0.24	1.95	0.52
15	3	1	2	0.46	0.36	0.76	50	4	5		0.32	4.75	0.63
16	3	4	2	0.51	0.14	0.88	51	4	5		0.37	4.70	0.62
17	3	5		0.36	0.27	0.48	52	4	5		0.33	5.06	0.49
18	3	5		0.47	0.21	0.75	53	4	1	2	0.40	5.56	0.47
20	3	1	2	0.50	0.58	0.68	54	4	5		0.34	5.56	0.70
22	3	5		0.42	0.52	0.85	55	4	1	3	0.22	5.92	0.47
23	3	1	3	0.41	1.09	0.86	98	6	1	3	0.39	0.04	0.59
24	3	1	3	0.33	1.17	0.92	99	6	1	3	0.43	0.16	0.67
25	3	1	2	0.30	1.27	0.66	100	6	6	1/4	0.37	0.11	0.94
26	4	6	1/4	0.50	0.18	0.76	101	6	4	1/4	0.34	0.31	0.84
27	4	5		0.32	0.18	0.67	103	6	5		0.19	0.22	0.51
29	4	1	1/4	0.44	0.49	0.70	105	6	1	1/4	0.44	0.49	0.54
30	4	1	1/4	0.39	0.38	0.88	106	6	5		0.08	0.24	0.27
31	4	5		0.28	0.28	0.69	107	6	6	1/4	0.25	0.45	0.59
32	4	1	3	0.30	0.12	0.64	108	6	1	1/4	0.39	0.71	0.72
33	4	1	1/4	0.53	0.32	0.81	111	6	1	2	0.43	0.27	0.79
34	4	6	1/4	0.49	0.33	0.74	112	6	4	2	0.43	0.51	0.58
35	4	5		0.44	0.24	0.83	113	6	1	2	0.55	0.66	0.74
36	4	1	1/4	0.46	0.52	0.75	114	6	1	3	0.34	0.27	0.60
37	4	4	1/4	0.51	0.44	0.85	115	6	1	3	0.44	0.31	0.89



**Table 47. Constructed-Response Item Analyses, Grade 6 Reading**Mean Item-Total Corr.: 0.48 Mean *p*-Value: 0.38

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
4		3	1	1/4	0.45	44.40	29.56	24.93			1.12	0.40
6		3	6	1/4	0.45	16.53	42.12	20.79	18.67		1.88	0.47
12		3	6	2	0.48	27.22	33.99	19.01	18.77		1.01	0.43
19		3	4	2	0.55	30.92	32.00	27.25	8.61		1.22	0.37
21		3	1	2	0.51	24.89	45.91	23.07	4.18		1.95	0.35
28		4	4	1/4	0.60	28.92	26.00	38.05	5.68		1.35	0.40
40		4	6	1/4	0.49	56.77	31.75	9.45			2.03	0.25
45		4	5		0.53	10.29	25.21	61.58			2.92	0.74
46		4	6	2	0.51	41.05	45.15	8.90	0.48		4.43	0.21
49		4	5		0.42	45.28	26.94	17.62			10.17	0.31
102		6	4	1/4	0.36	66.78	20.09	10.10	2.36		0.68	0.16
104		6	6	1/4	0.45	25.32	60.59	12.27			1.82	0.43
109		6	4	2	0.55	44.71	30.24	23.02			2.03	0.38
110		6	4	2	0.44	18.63	62.96	16.77			1.63	0.48

**Table 48. Multiple-Choice Item Analyses, Grade 6 Writing**Mean Item-Total Corr.: 0.37 Mean *p*-Value: 0.65

Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value
56	5	3	7	0.41	0.27	0.62	77	5	3	7	0.34	0.51	0.60
57	5	3	8	0.45	0.13	0.90	78	5	3	7	0.36	1.23	0.66
58	5	2	5	0.43	0.10	0.84	79	5	3	8	0.44	1.12	0.69
59	5	2		0.19	0.98	0.49	80	5	3	7	0.21	1.05	0.69
60	5	2	5	0.26	0.31	0.42	81	5	3	7	0.42	0.78	0.57
61	5	3	8	0.48	0.31	0.87	82	5	2	7	0.45	0.80	0.66
62	5	2	8	0.40	0.27	0.92	83	5	2	5	0.28	0.98	0.40
63	5	2	5	0.39	0.41	0.89	84	5	3	8	0.34	1.04	0.60
64	5	3	7	0.30	0.89	0.65	85	5	2	5	0.23	0.93	0.61
65	5	2		0.33	0.73	0.51	86	5	3	8	0.50	1.42	0.86
66	5	3	7	0.43	0.59	0.82	87	5	2	5	0.35	0.98	0.59
67	5	3	7	0.32	0.64	0.45	88	5	3	8	0.46	1.42	0.63
68	5	3	7	0.27	0.66	0.61	89	5	2	5	0.32	1.33	0.61
69	5	2	5	0.20	0.56	0.48	90	5	3	7	0.48	1.80	0.77
70	5	2	7	0.25	0.41	0.44	91	5	3	7	0.24	1.78	0.55
71	5	3	8	0.49	0.56	0.87	92	5	3	7	0.53	1.90	0.83
72	5	3	7	0.42	0.77	0.71	93	5	3	8	0.40	1.94	0.53
74	5	3	7	0.49	0.46	0.75	94	5	2	5	0.34	1.75	0.42
75	5	3	8	0.47	0.62	0.90	95	5	2	8	0.54	1.90	0.72
76	5	3	7	0.37	0.84	0.55	96	5	3	7	0.23	2.36	0.50

**Table 49. Constructed-Response Item Analyses, Grade 6 Writing**Mean Item-Total Corr.: 0.41 Mean *p*-Value: 0.61

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
1		1	2	6	0.12	0.75	99.25				0.00	0.99
2	A	2	3	7	0.32	84.57	15.22				0.22	0.15
2	B	2	3	8	0.27	31.06	68.78				0.16	0.69
2	C	2	3	8	0.44	21.82	78.01				0.17	0.78
2	D	2	3	8	0.35	59.90	39.91				0.20	0.40
2	E	2	3	7	0.52	40.65	59.18				0.17	0.59
2	F	2	3	8	0.17	91.93	7.88				0.20	0.08
3	A	2	2	6	0.56	0.93	1.57	26.82	50.82	19.67	0.18	0.72
3	B	2	2	6	0.59	0.00	3.54	29.48	48.66	18.14	0.18	0.70
3	C	2	3	6	0.38	0.63	6.81	92.37			0.18	0.96
73		5	2	5	0.49	0.20	3.42	28.61	51.31	14.96	1.50	0.69
97		5	2	5	0.47	0.46	6.63	44.56	36.30	7.32	4.74	0.58
116		5	2	5	0.58	1.00	13.58	53.35	26.24	4.18	1.65	0.54

**Table 50. Multiple-Choice Item Analyses, Grade 6 Mathematics**Mean Item-Total Corr.: 0.42 Mean  $p$ -Value: 0.59

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
1	1	4/5		0.30	0.25	0.52	31	2	6		0.39	0.58	0.84
2	1	2		0.35	0.13	0.89	33	2	2	2	0.47	0.23	0.66
3	1	6		0.38	0.56	0.79	34	2	4/5		0.39	0.35	0.34
5	1	2	2	0.46	0.14	0.81	35	2	6		0.45	0.43	0.83
6	1	6	1	0.29	0.19	0.58	36	2	2	2	0.47	0.34	0.37
7	1	6		0.38	1.24	0.83	37	2	1		0.50	0.62	0.47
9	1	1		0.36	0.22	0.49	39	2	4/5		0.50	0.52	0.73
10	1	4/5	3	0.49	0.29	0.26	41	3	2	2	0.33	0.09	0.76
12	1	1		0.44	0.23	0.62	42	3	6		0.43	0.71	0.81
13	1	3		0.55	0.19	0.69	43	3	1		0.48	0.17	0.38
15	1	4/5		0.38	0.32	0.78	44	3	6		0.43	0.30	0.61
16	1	3		0.48	1.03	0.63	45	3	1	1	0.33	0.28	0.47
17	1	4/5		0.45	0.70	0.42	47	3	1	1	0.52	0.31	0.65
18	1	4/5		0.61	0.75	0.53	48	3	1		0.54	0.24	0.51
19	1	4/5	3	0.32	1.31	0.22	49	3	4/5	3	0.40	0.44	0.70
21	2	1		0.27	0.21	0.43	50	3	6		0.38	0.92	0.83
22	2	3		0.37	0.09	0.65	51	3	3		0.45	0.53	0.57
24	2	6	1	0.49	0.14	0.84	53	3	4/5	3	0.47	0.53	0.53
25	2	1		0.43	0.36	0.42	55	3	2	2	0.40	0.42	0.47
26	2	4/5	3	0.37	0.19	0.71	56	3	4/5	3	0.38	0.34	0.59
27	2	3		0.49	0.23	0.50	58	3	3	2	0.48	0.32	0.65
28	2	3	1	0.34	0.23	0.79	59	3	1	1	0.40	0.52	0.26
30	2	2		0.34	0.26	0.28							

**Table 51. Constructed-Response Item Analyses, Grade 6 Mathematics**Mean Item-Total Corr.: 0.62 Mean *p*-Value: 0.52

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
4		1	4/5	3	0.58	38.68	46.31	14.77			0.24	0.38
8		1	1	1	0.67	19.55	24.80	35.51	17.95		2.20	0.50
11		1	3		0.56	40.02	9.34	49.45			1.19	0.54
14		1	3		0.66	44.83	18.99	17.98	17.43		0.77	0.36
20		1	2	2	0.67	7.13	12.74	21.61	47.56	9.90	1.06	0.60
23		2	3		0.56	19.74	15.10	64.28			0.89	0.72
29		2	4/5	3	0.57	60.67	26.65	8.23	3.75		0.70	0.18
32		2	4/5		0.44	10.15	19.28	70.13			0.45	0.80
38		2	2	2	0.76	28.20	22.15	29.72	19.02		0.91	0.46
40		2	3		0.62	11.83	54.15	28.48	3.42	1.48	0.64	0.32
46		3	6	1	0.51	31.75	15.39	52.21			0.66	0.60
52		3	4/5		0.74	39.95	13.91	19.52	25.32		1.30	0.43
54		3	6	1	0.63	32.05	14.42	53.06			0.47	0.60
57		3	2	2	0.61	9.25	17.77	26.35	46.38		0.25	0.70
60		3	1	1	0.76	7.64	19.95	22.37	26.85	22.81	0.39	0.59

**Table 52. Multiple-Choice Item Analyses, Grade 7 Reading**Mean Item-Total Corr.: 0.36 Mean  $p$ -Value: 0.71

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
4	3	5		0.41	0.05	0.81	40	4	1	1	0.42	0.22	0.72
6	3	1	2	0.40	0.10	0.80	41	4	1	1	0.42	0.38	0.81
8	3	5		0.36	0.21	0.91	42	4	4	1	0.50	0.42	0.79
9	3	1	3	0.33	0.08	0.91	43	4	1	3	0.27	0.22	0.77
10	3	5		0.35	0.19	0.77	45	4	5		0.44	0.46	0.77
11	3	4	2	0.42	0.37	0.88	48	4	1	3	0.48	0.42	0.86
14	3	1	1	0.33	0.20	0.71	49	4	4	2	0.21	0.58	0.65
15	3	4	1	0.46	0.55	0.90	50	4	6	1	0.32	0.44	0.77
16	3	4	1	0.30	0.26	0.68	51	4	1	3	0.51	0.57	0.87
17	3	5		0.07	0.28	0.36	52	4	5		0.46	0.78	0.86
18	3	1	3	0.48	0.21	0.65	96	6	4	2	0.43	0.17	0.79
19	3	5		0.31	0.26	0.66	97	6	5		0.27	0.12	0.84
20	3	5		0.42	0.40	0.73	98	6	5		0.29	0.20	0.55
21	3	4	4	0.48	0.35	0.72	99	6	1	2	0.26	0.34	0.47
22	3	6	4	0.27	0.44	0.59	100	6	4	2	0.26	0.30	0.62
23	3	6	4	0.37	0.46	0.70	101	6	1	2	0.49	0.50	0.71
25	3	6	4	0.28	0.72	0.37	102	6	5		0.22	0.49	0.48
26	3	4	4	0.51	0.98	0.83	103	6	5		0.20	0.17	0.50
27	3	4	4	0.30	1.04	0.62	105	6	1	1	0.49	0.29	0.63
28	3	1	2	0.37	1.22	0.79	106	6	5		0.11	0.68	0.32
29	3	1	3	0.36	1.29	0.74	107	6	6	1	0.27	0.24	0.65
30	3	1	3	0.33	1.46	0.85	108	6	1	1	0.42	0.54	0.79
31	3	4	2	0.33	1.55	0.74	109	6	1	3	0.48	0.42	0.75
32	3	5		0.39	1.81	0.65	110	6	6	1	0.34	0.29	0.51
34	4	6	1	0.43	0.10	0.92	111	6	4	4	0.26	0.19	0.70
36	4	5		0.51	0.10	0.84	112	6	6	4	0.27	0.40	0.68
37	4	1	3	0.36	0.14	0.67	113	6	5		0.51	0.28	0.62
38	4	5		0.38	0.24	0.84	114	6	5		0.37	0.34	0.62

**Table 53. Constructed-Response Item Analyses, Grade 7 Reading**Mean Item-Total Corr.: 0.48 Mean *p*-Value: 0.46

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
5		3	4	2	0.46	18.32	35.40	33.23	12.50		0.55	0.46
7		3	1	2	0.43	19.39	52.17	24.38	2.84		1.23	0.36
12		3	6	1	0.41	42.74	41.15	14.93			1.19	0.36
13		3	6	1	0.56	20.87	15.48	62.16			1.50	0.70
24		3	6	4	0.52	16.02	54.86	19.84	5.60	1.39	2.30	0.29
33		3	1	2	0.55	6.04	14.09	25.01	52.06		2.80	0.73
35		4	4	1	0.60	26.13	39.80	31.11			2.97	0.51
39		4	1	1	0.54	28.89	46.96	16.72	5.57		1.86	0.32
44		4	1	2	0.40	31.29	55.89	10.94			1.88	0.39
46		4	4	2	0.53	25.05	59.21	9.98	3.84		1.92	0.30
47		4	1	2	0.42	10.60	53.45	33.74			2.21	0.60
53		4	5		0.54	20.35	19.51	56.35			3.79	0.66
104		6	6	1	0.44	21.49	65.59	10.65			2.27	0.43
115		6	6	4	0.36	49.53	41.68	6.83			1.96	0.28

**Table 54. Multiple-Choice Item Analyses, Grade 7 Writing**Mean Item-Total Corr.: 0.36 Mean *p*-Value: 0.67

Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value
54	5	3	7	0.18	0.09	0.62	75	5	3	7	0.09	1.22	0.25
55	5	3	7	0.21	0.22	0.49	76	5	2	5	0.17	0.49	0.44
56	5	3	7	0.32	0.36	0.72	77	5	3	7	0.24	2.06	0.71
57	5	2	8	0.41	0.12	0.56	78	5	3	7	0.48	0.62	0.90
58	5	3	7	0.42	0.44	0.88	79	5	3	7	0.45	0.55	0.91
59	5	3	7	0.41	0.78	0.78	80	5	3	8	0.38	0.71	0.65
60	5	3	7	0.44	0.44	0.74	81	5	3	7	0.40	0.72	0.69
61	5	3	8	0.43	0.51	0.80	82	5	2	5	0.48	0.91	0.74
62	5	2	5	0.44	0.38	0.80	83	5	3	7	0.51	1.27	0.78
63	5	2	8	0.22	0.47	0.83	84	5	2	5	0.36	0.77	0.52
64	5	2		0.33	0.47	0.58	85	5	2		0.46	1.02	0.80
65	5	3	7	0.30	0.60	0.56	86	5	2	5	0.43	0.93	0.73
66	5	2	7	0.34	0.45	0.84	87	5	3	7	0.41	1.53	0.74
67	5	3	7	0.26	0.72	0.63	88	5	3	8	0.44	1.78	0.69
68	5	2	5	0.21	0.32	0.62	89	5	3	7	0.50	1.37	0.75
69	5	3	7	0.49	1.34	0.73	90	5	3	8	0.21	1.19	0.29
71	5	2	5	0.31	0.42	0.42	91	5	2	5	0.31	1.27	0.51
72	5	3	7	0.25	2.63	0.60	92	5	2		0.46	1.34	0.75
73	5	2	7	0.46	0.39	0.73	93	5	3	7	0.57	1.67	0.70
74	5	3	7	0.43	0.64	0.57	94	5	3	7	0.35	1.85	0.57



**Table 55. Constructed-Response Item Analyses, Grade 7 Writing**Mean Item-Total Corr.: 0.40 Mean *p*-Value: 0.65

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
1		1	2	6	0.11	0.97	99.03				0.00	0.99
2	A	2	3	8	0.42	34.58	65.22				0.20	0.65
2	B	2	3	8	0.32	57.13	42.63				0.24	0.43
2	C	2	3	7	0.36	64.50	35.36				0.15	0.35
2	D	2	3	7	0.30	13.25	86.56				0.20	0.87
2	E	2	3	8	0.19	40.67	59.17				0.16	0.59
2	F	2	3	8	0.44	35.07	64.76				0.17	0.65
3	A	2	2	6	0.54	9.23	6.20	39.18	30.52	14.69	0.19	0.59
3	B	2	2	6	0.56	0.00	5.33	45.30	33.72	15.45	0.19	0.65
3	C	2	3	6	0.38	0.15	7.86	91.80			0.19	0.96
70		5	2	5	0.49	0.13	5.85	53.73	34.79	4.26	1.25	0.59
95		5	2	5	0.50	0.18	6.56	43.30	38.60	7.70	3.66	0.60
116		5	2	5	0.53	2.75	11.15	38.07	31.50	14.80	1.75	0.60

**Table 56. Multiple-Choice Item Analyses, Grade 7 Mathematics**Mean Item-Total Corr.: 0.35 Mean  $p$ -Value: 0.49

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
1	1	2		0.32	0.37	0.49	32	2	1/6		0.44	0.51	0.55
2	1	1/6		0.26	0.06	0.88	33	2	2		0.46	0.40	0.49
4	1	4/5		0.56	0.24	0.50	34	2	4/5	2	0.11	0.57	0.15
5	1	1/6		0.38	0.17	0.53	36	2	2		0.46	0.55	0.75
7	1	3		0.40	0.26	0.76	37	2	4/5	2	0.15	0.92	0.44
8	1	2		0.27	0.25	0.41	38	2	2		0.54	0.43	0.36
9	1	3		0.33	0.34	0.24	39	2	1/6	1	0.32	0.47	0.41
10	1	1/6		0.40	0.46	0.63	41	3	3		0.32	0.16	0.30
12	1	4/5		0.26	0.24	0.27	42	3	1/6		0.38	0.21	0.37
13	1	3		0.42	0.20	0.57	44	3	4/5	2	0.16	0.17	0.44
14	1	4/5	2	0.24	0.41	0.30	45	3	1/6		0.33	0.38	0.86
15	1	1/6	1	0.28	0.49	0.46	47	3	2		0.49	0.29	0.59
16*	1	2		0.04	0.44	0.14	48	3	3		0.45	0.23	0.79
18	1	1/6		0.44	1.04	0.64	50	3	3		0.32	0.53	0.49
19	1	4/5	2	0.44	1.39	0.36	51	3	1/6		0.28	0.86	0.66
21	2	3		0.35	0.13	0.47	52	3	3		0.19	0.98	0.40
22	2	1/6		0.27	0.45	0.47	53	3	4/5		0.47	0.42	0.60
24	2	1/6		0.45	0.33	0.40	55	3	3		0.48	0.26	0.54
25	2	4/5	2	0.15	0.38	0.34	56	3	2		0.39	0.33	0.79
27	2	4/5	2	0.58	0.33	0.38	57	3	2		0.34	0.24	0.30
28	2	1/6	1	0.36	0.30	0.39	58	3	4/5		0.48	0.30	0.62
29	2	1/6		0.24	0.58	0.39	59	3	4/5		0.18	0.41	0.34
31	2	1/6		0.46	0.29	0.62							

**Table 57. Constructed-Response Item Analyses, Grade 7 Mathematics**Mean Item-Total Corr.: 0.59 Mean *p*-Value: 0.38

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
3		1	4/5		0.57	56.80	4.34	38.49			0.37	0.41
6		1	2		0.48	34.26	41.90	21.24	2.19		0.41	0.30
11		1	1/6		0.59	50.42	45.17	3.91			0.50	0.26
17		1	4/5	2	0.64	54.86	29.20	10.25	4.79		0.90	0.21
20		1	1/6	1	0.64	43.65	18.49	17.53	11.80	6.03	2.50	0.28
23		2	4/5	2	0.59	69.13	9.87	19.36			1.63	0.24
26		2	2		0.37	5.10	11.38	17.80	65.38		0.35	0.81
30		2	1/6	1	0.49	61.53	5.57	31.19			1.71	0.34
35		2	3	1	0.66	44.36	28.26	20.85	5.67		0.87	0.29
40		2	4/5	2	0.65	28.90	12.60	22.41	17.16	18.10	0.84	0.45
43		3	2		0.63	65.66	12.78	19.83			1.72	0.26
46		3	1/6		0.61	5.56	10.66	42.95	40.41		0.42	0.73
49		3	3		0.68	42.76	22.01	34.62			0.61	0.46
54		3	4/5	2	0.56	30.20	38.86	23.72	6.37		0.86	0.35
60		3	3	1	0.63	7.42	51.41	33.10	4.54	3.00	0.53	0.36

**Table 58. Multiple-Choice Item Analyses, Grade 8 Reading**Mean Item-Total Corr.: 0.34 Mean  $p$ -Value: 0.66

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
4	3	1	2	0.19	0.25	0.44	38	4	4	2	0.36	0.13	0.70
6	3	5		0.39	0.17	0.63	39	4	5		0.36	0.20	0.59
7	3	1	2	0.38	0.26	0.74	40	4	5		0.39	0.14	0.88
9	3	5		0.17	0.16	0.25	41	4	1	2	0.45	0.25	0.63
10	3	1	3	0.44	0.23	0.87	43*	4	4	2	0.07	0.28	0.52
11	3	6	1	0.43	0.11	0.91	45	4	1	3	0.42	0.24	0.90
12	3	1	1	0.24	0.15	0.81	47	4	5		0.39	0.37	0.79
13	3	4	1	0.22	0.31	0.75	49	4	1	3	0.24	0.23	0.78
14	3	1	3	0.42	0.20	0.80	50	4	4	1	0.32	0.65	0.46
15	3	1	3	0.46	0.23	0.73	51	4	4	1	0.47	0.72	0.51
16	3	1	1	0.42	0.27	0.83	52	4	6	1	0.20	0.79	0.31
17	3	4	1	0.32	0.34	0.37	53	4	6	1	0.50	0.88	0.74
18	3	4	1	0.33	0.42	0.79	55	4	4	1	0.27	3.06	0.58
21	3	4	2	0.38	1.05	0.79	56	4	6	1	0.33	3.06	0.66
22	3	1	3	0.49	1.11	0.89	99	6	5		0.39	0.20	0.55
23	3	1	3	0.45	1.27	0.73	101	6	6	1	0.24	0.22	0.73
24	3	5		0.37	1.43	0.65	102	6	4	1	0.29	0.33	0.48
25	3	5		0.26	1.59	0.41	103	6	5		0.43	0.20	0.84
27	3	1	3	0.49	3.69	0.73	104	6	5		0.24	0.22	0.60
28	3	6	4	0.35	4.00	0.53	105	6	4	4	0.37	0.10	0.80
29	3	1	3	0.39	4.45	0.49	106	6	6	4	0.30	0.20	0.54
31	3	1	4	0.46	5.41	0.78	107	6	6	4	0.21	0.22	0.48
32	3	5		0.36	7.48	0.75	108	6	6	4	0.28	0.24	0.59
33	3	4	4	0.49	8.10	0.69	111	6	4	1	0.17	0.34	0.29
34	3	6	4	0.40	8.12	0.61	112	6	5		0.26	0.19	0.67
35	4	1	3	0.25	0.04	0.90	113	6	6	1	0.12	0.66	0.62
36	4	1	3	0.31	0.07	0.62	114	6	6	1	0.41	0.22	0.76
37	4	4	2	0.29	0.13	0.89	115	6	5		0.38	0.22	0.55

**Table 59. Constructed-Response Item Analyses, Grade 8 Reading**Mean Item-Total Corr.: 0.49 Mean *p*-Value: 0.52

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
5		3	1	2	0.50	28.60	29.86	40.70			0.84	0.56
8		3	1	2	0.40	1.45	4.90	22.28	70.49		0.87	0.87
19		3	5		0.56	9.67	27.39	58.43			4.51	0.72
20		3	1	2	0.54	8.99	31.42	17.78	38.24		3.57	0.61
26		3	6	2	0.46	13.26	44.69	24.72	10.92		6.42	0.42
30		3	6	4	0.61	17.78	37.02	16.14	17.61		11.44	0.41
42		4	5		0.56	50.88	9.18	34.60			5.34	0.39
44		4	1	2	0.36	25.83	56.11	15.80			2.26	0.44
46		4	4	2	0.58	20.05	36.29	32.41	9.18		2.07	0.43
48		4	1	2	0.46	11.57	43.88	41.88			2.67	0.64
54		4	5		0.61	9.03	21.10	37.56	28.53		3.78	0.61
100		6	4	1	0.34	30.28	46.97	14.46	5.74		2.56	0.31
109		6	6	4	0.40	42.13	31.68	23.54			2.65	0.39
110		6	1	1	0.44	32.16	36.06	29.33			2.46	0.47

**Table 60. Multiple-Choice Item Analyses, Grade 8 Writing**Mean Item-Total Corr.: 0.37 Mean  $p$ -Value: 0.68

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
57	5	2		0.28	0.25	0.89	78	5	3	7	0.39	0.44	0.62
58	5	3	7	0.24	0.16	0.56	79	5	3	7	0.46	0.42	0.86
59	5	2	5	0.16	0.14	0.49	80	5	2	5	0.43	0.39	0.77
60	5	3	7	0.30	1.54	0.92	81	5	3	7	0.41	0.58	0.84
61	5	2	5	0.27	0.25	0.53	82	5	3	7	0.35	0.83	0.53
62	5	3	7	0.29	0.33	0.84	83	5	2	7	0.36	0.50	0.54
63	5	3	7	0.41	0.65	0.61	84	5	2		0.39	1.02	0.66
64	5	3	7	0.23	0.79	0.50	85	5	3	7	0.45	0.70	0.78
65	5	3	7	0.33	0.72	0.62	86	5	3	7	0.35	0.99	0.59
66	5	2	5	0.34	0.24	0.72	87	5	3	7	0.50	1.01	0.70
67	5	2	7	0.37	0.42	0.50	88	5	3	8	0.49	0.68	0.85
68	5	3	7	0.44	0.27	0.60	89	5	3	7	0.52	0.82	0.70
69	5	3	8	0.32	0.65	0.68	90	5	2	5	0.26	0.98	0.37
70	5	3	8	0.41	0.66	0.76	91	5	2		0.33	0.78	0.51
71	5	3	7	0.45	0.31	0.89	92	5	3	7	0.47	0.93	0.84
72	5	3	8	0.41	0.35	0.71	93	5	2	7	0.47	1.03	0.75
73	5	3	7	0.15	1.01	0.30	94	5	2	7	0.51	0.91	0.84
74	5	3	8	0.34	0.50	0.81	95	5	2	5	0.50	1.11	0.69
76	5	3	7	0.37	0.43	0.95	96	5	3	7	0.40	1.47	0.72
77	5	2	5	0.33	0.31	0.91	97	5	2	5	0.17	1.40	0.46

**Table 61. Constructed-Response Item Analyses, Grade 8 Writing**

Mean Item-Total Corr.: 0.42 Mean *p*-Value: 0.64

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
1		1	2	6	0.14	1.28	98.72				0.00	0.99
2	A	2	3	7	0.33	11.10	88.78				0.12	0.89
2	B	2	3	8	0.38	38.78	61.09				0.13	0.61
2	C	2	3	7	0.30	80.52	19.34				0.14	0.19
2	D	2	3	8	0.41	30.32	69.54				0.14	0.70
2	E	2	3	8	0.35	73.97	25.87				0.16	0.26
2	F	2	3	7	0.42	55.58	44.27				0.14	0.44
3	A	2	2	6	0.61	0.93	3.95	32.00	44.61	18.34	0.16	0.69
3	B	2	2	6	0.60	0.00	4.39	31.66	45.27	18.52	0.16	0.69
3	C	2	3	6	0.37	0.17	6.02	93.65			0.16	0.97
75		5	2	5	0.50	0.16	4.51	43.67	42.81	7.40	1.44	0.62
98		5	2	5	0.55	0.27	10.07	44.22	32.36	8.88	4.20	0.58
116		5	2	5	0.54	0.26	6.11	42.53	37.97	11.98	1.15	0.63

**Table 62. Multiple-Choice Item Analyses, Grade 8 Mathematics**Mean Item-Total Corr.: 0.39 Mean  $p$ -Value: 0.49

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
1	1	3		0.34	0.22	0.43	31	2	1/6		0.34	0.43	0.45
2	1	3		0.42	0.12	0.33	32	2	2		0.47	0.53	0.30
3	1	1/6		0.29	0.27	0.49	33	2	1/6		0.50	0.80	0.35
5	1	3		0.33	0.27	0.53	35	2	3		0.32	0.21	0.66
6	1	1/6		0.45	2.96	0.58	36	2	2		0.28	0.53	0.43
8	1	4/5	3	0.56	0.15	0.42	38	2	1/6		0.52	0.29	0.46
9	1	1/6	2	0.44	0.20	0.41	39	2	4/5	3	0.48	0.52	0.41
11	1	4/5		0.15	0.35	0.44	41	3	2	1	0.29	0.16	0.40
12	1	4/5	2	0.60	0.30	0.44	42*	3	4/5	3	-0.05	0.25	0.14
13	1	3		0.44	0.33	0.48	43	3	2		0.57	0.27	0.40
15	1	1/6		0.45	1.29	0.62	44	3	1/6		0.58	0.28	0.50
16	1	2	1	0.40	0.43	0.38	46	3	1/6	2	0.40	0.41	0.47
17	1	4/5	3	0.27	0.70	0.73	47	3	4/5	3	0.43	0.70	0.57
18	1	3		0.31	0.57	0.32	49	3	4/5		0.40	0.20	0.50
19	1	3		0.33	0.70	0.84	50	3	2		0.43	0.52	0.42
21	2	2		0.36	0.08	0.45	51	3	2	1	0.12	0.51	0.38
22	2	4/5	3	0.53	0.21	0.60	52	3	4/5		0.42	0.38	0.63
23	2	1/6		0.28	0.32	0.71	54	3	2	1	0.37	0.33	0.56
25	2	3		0.50	0.12	0.52	55	3	3		0.43	0.35	0.62
26	2	1/6		0.41	0.32	0.77	56	3	2	1	0.48	0.57	0.40
28	2	4/5	2	0.30	0.14	0.45	58	3	4/5	3	0.33	0.38	0.52
29	2	4/5	2	0.32	0.15	0.56	59*	3	2	1	0.03	0.52	0.16
30	2	4/5	3	0.32	0.32	0.30							



**Table 63. Constructed-Response Item Analyses, Grade 8 Mathematics**Mean Item-Total Corr.: 0.61 Mean *p*-Value: 0.40

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
4		1	2	1	0.65	50.87	16.90	30.44			1.79	0.39
7		1	3		0.61	16.12	25.71	44.04	13.34		0.79	0.51
10		1	2	1	0.55	30.38	19.89	46.81			2.92	0.57
14		1	4/5		0.54	26.39	19.47	40.55	12.65		0.94	0.46
20		1	1/6	2	0.73	42.43	16.15	14.88	16.28	7.18	3.08	0.31
24		2	1/6	2	0.57	45.47	48.82	5.13			0.58	0.30
27		2	1/6		0.57	3.54	8.20	41.25	46.56		0.45	0.77
34		2	4/5	2	0.64	41.84	30.29	26.62			1.25	0.42
37		2	2	1	0.67	34.40	22.23	35.71	5.16		2.50	0.36
40		2	4/5	3	0.69	44.35	24.95	19.68	5.32	4.51	1.19	0.25
45		3	3		0.46	17.98	77.27	2.66	1.26		0.82	0.29
48		3	3	1	0.64	62.91	21.42	14.21			1.47	0.25
53		3	4/5	3	0.60	11.82	54.93	22.78	9.39		1.08	0.43
57		3	1/6	2	0.63	67.52	22.06	7.07			3.35	0.18
60		3	2	1	0.65	8.61	36.43	27.58	15.19	11.38	0.82	0.46

**Table 64. Multiple-Choice Item Analyses, Grade 9 Reading**Mean Item-Total Corr.: 0.35 Mean  $p$ -Value: 0.65

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
4	3	1	2	0.20	0.28	0.48	39	4	4	4	0.24	0.44	0.59
6	3	5		0.39	0.06	0.66	41	4	6	4	0.44	0.30	0.62
7	3	1	2	0.40	0.18	0.77	42	4	6	4	0.26	0.60	0.43
9	3	5		0.22	0.14	0.28	43	4	4	4	0.40	0.69	0.69
10	3	1	2	0.31	0.16	0.57	45	4	4	4	0.22	0.91	0.57
12	3	1	4	0.43	0.25	0.77	46	4	1	2	0.28	1.36	0.49
13	3	1	3	0.46	0.10	0.90	47	4	1	3	0.25	0.95	0.75
14	3	5		0.33	0.20	0.55	48	4	1	3	0.33	1.05	0.61
15	3	5		0.43	0.24	0.84	49	4	5		0.41	1.22	0.65
16	3	6	1	0.27	0.38	0.30	50	4	5		0.44	1.32	0.68
17	3	5		0.37	0.21	0.57	51	4	5		0.43	2.42	0.62
18	3	6	1	0.32	0.48	0.46	52	4	1	3	0.29	2.45	0.66
20	3	4	1	0.38	0.47	0.65	95	6	1	3	0.26	0.16	0.67
21	3	1	3	0.33	0.54	0.30	97	6	1	3	0.38	0.15	0.90
23	3	4	1	0.38	5.58	0.47	98	6	4	2	0.36	0.27	0.64
24	4	5		0.48	0.09	0.79	100	6	5		0.29	0.10	0.97
25	4	5		0.15	0.16	0.42	101	6	5		0.32	0.16	0.97
27	4	1	2	0.40	0.11	0.92	102	6	4	1	0.35	0.17	0.51
28	4	5		0.32	0.17	0.83	103	6	4	1	0.49	0.19	0.58
29	4	1	2	0.36	0.22	0.56	104	6	6	1	0.24	0.29	0.34
30	4	1	2	0.38	0.39	0.88	105	6	6	1	0.49	0.44	0.78
31	4	1	3	0.30	0.18	0.56	107	6	4	1	0.22	0.68	0.57
32	4	6	1	0.31	0.17	0.84	108	6	6	1	0.38	0.31	0.72
33	4	5		0.44	0.16	0.86	109	6	1	3	0.38	0.35	0.70
34	4	6	1	0.37	0.27	0.48	110	6	5		0.31	0.33	0.53
35	4	1	3	0.45	0.35	0.79	111	6	4	1	0.36	0.65	0.62
36	4	6	1	0.38	0.60	0.58	113	6	4	1	0.41	0.66	0.85
38	4	4	4	0.48	0.25	0.74	114*	6	6	1	0.05	0.64	0.39

**Table 65. Constructed-Response Item Analyses, Grade 9 Reading**Mean Item-Total Corr.: 0.51 Mean *p*-Value: 0.48

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
5		3	1	2	0.54	24.77	29.05	44.99			1.19	0.60
8		3	1	2	0.40	1.45	4.90	23.12	69.22		1.31	0.86
11		3	1	4	0.51	28.97	20.48	23.25	24.34		2.96	0.47
19		3	6	1	0.38	75.76	8.14	7.34			8.77	0.11
22		3	4	1	0.56	31.05	28.51	24.26	8.86		7.32	0.35
26		4	4	2	0.50	12.92	33.34	36.01	14.12		3.62	0.49
37		4	5		0.54	4.95	7.39	15.98	69.38		2.31	0.82
40		4	6	4	0.54	27.93	39.58	11.98	15.23		5.29	0.36
44		4	6	4	0.50	48.95	31.39	11.55			8.10	0.27
96		6	1	2	0.58	21.05	40.08	26.63	6.52		5.72	0.38
99		6	4	2	0.58	9.80	19.81	38.88	27.64		3.87	0.60
106		6	5		0.60	9.81	19.47	37.15	29.83		3.74	0.61
112		6	6	1	0.56	18.10	22.68	46.21	7.59		5.43	0.46
115		6	1	1	0.36	26.34	36.75	26.99	3.79		6.12	0.34

**Table 66. Multiple-Choice Item Analyses, Grade 9 Writing**Mean Item-Total Corr.: 0.41 Mean  $p$ -Value: 0.69

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
53	5	2	5	0.39	0.11	0.55	74*	5	3	7	0.14	0.80	0.28
54	5	3	8	0.39	0.16	0.73	75	5	2	5	0.40	0.35	0.76
55	5	2	5	0.43	0.17	0.58	76	5	2	5	0.20	0.35	0.50
56	5	2		0.29	0.19	0.73	77	5	3	7	0.30	0.49	0.46
57	5	3	7	0.32	0.25	0.77	78	5	3	7	0.39	0.76	0.62
58	5	2	7	0.46	0.23	0.90	79	5	3	7	0.50	0.89	0.78
59	5	3	8	0.37	0.20	0.90	80	5	3	8	0.43	0.42	0.78
60	5	3	8	0.38	0.40	0.79	81	5	3	7	0.47	0.65	0.70
61	5	3	8	0.43	0.54	0.87	82	5	3	7	0.52	0.69	0.65
62	5	3	7	0.31	0.72	0.61	83	5	2	7	0.51	0.53	0.70
63	5	3	7	0.41	0.43	0.80	84	5	3	7	0.47	0.94	0.78
64	5	3	8	0.31	0.43	0.64	85	5	2	5	0.22	0.54	0.31
65	5	2	5	0.27	0.29	0.38	86*	5	2	5	0.02	0.66	0.29
66	5	2		0.34	0.29	0.56	87	5	3	7	0.55	0.73	0.70
67	5	3	7	0.56	0.32	0.83	88	5	3	7	0.52	0.91	0.87
68	5	3	7	0.48	0.50	0.88	89	5	3	7	0.51	0.85	0.76
69	5	3	8	0.46	0.36	0.74	90	5	2	5	0.51	0.93	0.66
70	5	3	7	0.49	0.43	0.84	91	5	2		0.44	0.95	0.78
71	5	3	7	0.31	0.63	0.54	92	5	2	5	0.50	1.00	0.57
73	5	2	5	0.27	0.25	0.64	93	5	3	7	0.47	1.02	0.70

**Table 67. Constructed-Response Item Analyses, Grade 9 Writing**

Mean Item-Total Corr.: 0.41 Mean *p*-Value: 0.66

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
1		1	2	6	0.14	1.62	98.38				0.00	0.98
2	A	2	3	8	0.37	19.86	79.97				0.17	0.80
2	B	2	3	7	0.47	37.45	62.38				0.18	0.62
2	C	2	3	7	0.19	50.45	49.34				0.21	0.49
2	D	2	3	8	0.29	76.43	23.38				0.19	0.23
2	E	2	3	7	0.46	35.10	64.72				0.18	0.65
2	F	2	3	8	0.41	46.19	53.63				0.18	0.54
3	A	2	2	6	0.63	0.63	2.07	27.36	38.72	31.02	0.20	0.74
3	B	2	2	6	0.64	0.00	2.48	27.50	39.07	30.75	0.21	0.74
3	C	2	3	6	0.28	0.14	2.31	97.34			0.20	0.98
72		5	2	5	0.41	0.22	5.81	35.59	42.82	12.96	2.60	0.64
94		5	2	5	0.54	0.24	10.98	47.41	28.98	6.70	5.71	0.55
116		5	2	5	0.52	0.56	6.78	49.86	31.84	8.00	2.96	0.59

**Table 68. Multiple-Choice Item Analyses, Grade 9 Mathematics**Mean Item-Total Corr.: 0.33 Mean  $p$ -Value: 0.47

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
1	1	4/5		0.40	0.51	0.43	32	2	2	1	0.44	0.24	0.36
2	1	4/5		0.25	0.23	0.24	33	2	2		0.46	0.63	0.24
3	1	2		0.41	0.16	0.56	34	2	1/6		0.40	0.92	0.51
5	1	1/6		0.45	0.30	0.58	35	2	3		0.40	0.18	0.68
6	1	4/5	1	0.36	0.09	0.81	37	2	1/6		0.33	0.49	0.40
7	1	4/5		0.44	0.45	0.26	38	2	3		0.05	0.37	0.22
8	1	1/6		0.37	0.48	0.57	39	2	3		0.30	0.32	0.72
10	1	2		0.17	0.31	0.43	41	3	1/6	2	0.35	0.16	0.62
11	1	4/5	2	0.45	0.24	0.36	42	3	3	2	0.36	0.13	0.67
12	1	1/6		0.44	0.43	0.44	43	3	4/5		0.22	0.61	0.52
13	1	2	1	0.14	0.37	0.45	45	3	1/6		0.31	0.27	0.69
15	1	3		0.37	0.33	0.44	46	3	3		0.39	0.38	0.24
16	1	4/5	2	0.51	0.43	0.35	47	3	1/6		0.27	0.66	0.54
18	1	4/5		0.20	0.85	0.33	49	3	2		0.16	0.11	0.79
19	1	2	1	0.31	1.21	0.26	50	3	3	2	0.31	0.23	0.66
21	2	3	2	0.38	0.18	0.50	52	3	4/5		0.40	0.26	0.56
22	2	2	1	0.35	0.08	0.64	53	3	2		0.44	0.27	0.42
24	2	1/6		0.22	0.83	0.44	54	3	2		0.40	0.32	0.26
25	2	2		0.35	0.38	0.18	55	3	4/5		0.18	0.38	0.37
27*	2	4/5		0.11	0.46	0.14	57	3	3		0.26	0.62	0.34
28	2	2		0.56	0.36	0.40	58	3	3		0.29	0.59	0.84
29	2	3		0.45	0.46	0.39	59	3	4/5		0.17	0.78	0.45
31	2	1/6		0.23	0.43	0.34							

**Table 69. Constructed-Response Item Analyses, Grade 9 Mathematics**

Mean Item-Total Corr.: 0.62 Mean *p*-Value: 0.29

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
4		1	2		0.58	79.85	14.19	2.54			3.42	0.10
9		1	1/6	2	0.60	55.70	29.69	3.72	9.64		1.26	0.22
14		1	1/6	2	0.63	67.03	20.86	8.55			3.56	0.19
17		1	4/5		0.61	75.38	10.13	6.04	3.87		4.59	0.11
20		1	3		0.51	11.08	22.44	33.44	24.33	7.23	1.49	0.48
23		2	1/6		0.63	61.86	18.40	16.44			3.31	0.26
26		2	3		0.66	51.87	34.98	11.80			1.35	0.29
30		2	2		0.63	68.42	13.28	10.12	3.61		4.56	0.15
36		2	2	1	0.67	32.02	21.76	32.65	9.57		4.00	0.39
40		2	4/5	2	0.70	67.51	10.60	7.16	4.78	7.38	2.56	0.17
44		3	3		0.48	36.10	39.23	23.41			1.26	0.43
48		3	4/5		0.71	50.81	12.13	10.77	22.94		3.35	0.34
51		3	2		0.46	22.61	26.26	49.44			1.70	0.63
56		3	3	2	0.77	51.43	20.46	17.57	7.98		2.56	0.27
60		3	2	1	0.63	29.73	17.09	26.45	8.79	14.63	3.31	0.39

**Table 70. Multiple-Choice Item Analyses, Grade 10 Reading**Mean Item-Total Corr.: 0.35 Mean *p*-Value: 0.67

Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	<i>p</i> -Value
4	3	6	1	0.27	0.21	0.33	42	4	5		0.49	0.47	0.75
5	3	5		0.36	0.06	0.65	43	4	5		0.48	0.45	0.81
6	3	6	1	0.33	0.21	0.51	44	4	5		0.35	0.39	0.95
8	3	4	1	0.38	0.22	0.72	45	4	5		0.43	0.56	0.62
10	3	4	1	0.20	0.30	0.64	46	4	1	3	0.45	0.85	0.60
12	3	1	3	0.36	0.25	0.52	48	4	6	4	0.48	0.94	0.67
14	3	6	1	0.25	0.47	0.54	49	4	4	4	0.29	1.28	0.44
15	3	1	1	0.37	0.24	0.77	50	4	5		0.40	1.59	0.78
16	3	1	3	0.23	0.23	0.70	94	6	1	1	0.44	0.12	0.81
17	3	1	3	0.41	0.30	0.70	95	6	6	1	0.26	0.21	0.45
18	3	4	4	0.30	0.42	0.63	96	6	4	1	0.34	0.17	0.74
19	3	6	4	0.36	0.43	0.68	98	6	6	1	0.41	0.19	0.81
20	3	4	4	0.32	0.55	0.51	99	6	1	1	0.43	0.48	0.82
22*	3	5		0.08	0.69	0.39	100	6	5		0.20	0.13	0.53
23	3	5		0.35	0.97	0.82	101	6	4	1	0.29	0.18	0.64
24	3	4	2	0.44	1.04	0.81	102	6	1	3	0.32	0.45	0.84
25	3	1	2	0.24	1.20	0.58	103	6	5		0.49	0.13	0.80
26	3	5		0.43	1.25	0.92	105	6	1	3	0.36	0.15	0.75
28	4	4	2	0.32	0.24	0.75	106	6	4	1	0.34	0.35	0.69
29	4	4	2	0.44	0.20	0.77	107	6	4	1	0.41	0.36	0.88
32	4	6	2	0.10	0.15	0.48	108	6	5		0.33	0.21	0.59
33	4	1	3	0.20	0.16	0.55	109*	6	6	1	0.02	0.23	0.44
34	4	4	2	0.40	0.12	0.74	110	6	4	4	0.41	0.18	0.68
36	4	1	3	0.21	0.34	0.54	111	6	6	4	0.38	0.27	0.70
37	4	1	2	0.38	0.54	0.62	112	6	4	4	0.42	0.48	0.59
39	4	1	3	0.45	0.26	0.83	113	6	1	4	0.23	0.23	0.62
40	4	1	2	0.36	0.33	0.60	114	6	1	4	0.18	0.23	0.43
41	4	5		0.39	0.26	0.85	115	6	6	4	0.32	0.34	0.63



**Table 71. Constructed-Response Item Analyses, Grade 10 Reading**Mean Item-Total Corr.: 0.50 Mean *p*-Value: 0.42

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
7		3	6	1	0.38	75.08	9.31	9.05			6.56	0.14
9		3	6	1	0.49	43.95	33.53	18.06			4.46	0.35
11		3	4	1	0.50	28.83	32.84	26.13	6.86		5.34	0.35
13		3	1	1	0.59	5.58	13.09	32.31	36.90	8.54	3.59	0.56
21		3	1	4	0.43	41.23	42.15	9.44			7.19	0.31
27		3	5		0.40	23.50	23.78	30.44	17.31		4.97	0.46
30		4	1	2	0.39	6.58	37.72	38.17	15.33		2.19	0.53
31		4	6	2	0.51	18.59	17.26	44.82	15.95		3.37	0.52
35		4	1	2	0.57	14.07	38.15	27.15	17.87		2.76	0.49
38		4	4	2	0.60	39.68	36.82	14.30	4.01		5.19	0.26
47		4	5		0.58	8.95	9.96	27.54	46.54		7.02	0.68
51		4	1	4	0.57	28.36	33.41	8.06	21.50		8.67	0.38
97		6	5		0.46	46.01	28.14	21.49			4.36	0.36
104		6	6	1	0.56	13.94	20.45	49.82	11.71		4.09	0.52

**Table 72. Multiple-Choice Item Analyses, Grade 10 Writing**Mean Item-Total Corr.: 0.40 Mean  $p$ -Value: 0.70

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
52	5	2	5	0.41	0.09	0.58	73	5	2	5	0.31	0.52	0.44
53	5	2	5	0.44	0.10	0.62	74	5	2	5	0.24	0.32	0.56
54	5	3	8	0.31	0.15	0.60	75	5	2	5	0.44	0.31	0.74
55	5	3	7	0.44	0.21	0.94	76	5	3	7	0.54	0.47	0.85
56	5	2	5	0.39	0.19	0.74	77	5	3	7	0.47	0.37	0.62
57	5	3	7	0.46	0.20	0.92	78*	5	3	7	0.10	0.57	0.35
58	5	3	7	0.21	0.21	0.74	79	5	2	7	0.50	0.41	0.87
59	5	3	8	0.24	0.22	0.54	80	5	3	7	0.47	0.39	0.86
60	5	3	7	0.45	0.20	0.84	81	5	3	7	0.48	0.64	0.74
61	5	3	8	0.40	0.25	0.69	82	5	3	7	0.52	0.88	0.89
62	5	3	7	0.32	0.56	0.43	83	5	3	7	0.50	1.17	0.72
63	5	3	7	0.46	1.14	0.85	84	5	3	7	0.52	0.57	0.90
64	5	3	8	0.31	0.27	0.55	85	5	3	7	0.50	0.62	0.91
65	5	2	7	0.50	0.26	0.82	86	5	2	7	0.50	0.51	0.81
66	5	2	5	0.37	0.21	0.82	87	5	2	5	0.24	0.53	0.57
67	5	2	5	0.18	0.25	0.50	88	5	2	5	0.20	0.65	0.34
68	5	2	5	0.42	0.23	0.56	89	5	3	7	0.45	0.63	0.85
69	5	3	8	0.46	0.25	0.57	90	5	2		0.46	0.96	0.89
70	5	3	7	0.51	0.31	0.84	91	5	3	7	0.51	0.82	0.86
72	5	3	7	0.13	0.33	0.34	92	5	3	8	0.33	0.76	0.47

**Table 73. Constructed-Response Item Analyses, Grade 10 Writing**Mean Item-Total Corr.: 0.39 Mean *p*-Value: 0.71

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
1		1	2	6	0.16	1.78	98.22				0.00	0.98
2	A	2	3	7	0.41	34.54	65.29				0.17	0.65
2	B	2	3	8	0.15	38.22	61.61				0.17	0.62
2	C	2	3	8	0.27	23.45	76.38				0.17	0.76
2	D	2	3	8	0.23	25.09	74.73				0.18	0.75
2	E	2	3	8	0.39	62.19	37.50				0.31	0.37
2	F	2	3	7	0.27	17.56	82.27				0.17	0.82
3	A	2	2	6	0.61	0.59	1.50	26.39	44.56	26.71	0.26	0.74
3	B	2	2	6	0.62	0.00	2.27	26.68	44.52	26.26	0.27	0.74
3	C	2	3	6	0.29	0.12	2.30	97.32			0.26	0.98
71		5	2	5	0.48	0.24	6.88	32.44	41.37	16.05	3.03	0.65
93		5	2	5	0.58	0.21	10.85	38.55	31.80	12.95	5.64	0.59
116		5	2	5	0.56	0.49	7.46	35.95	39.55	13.95	2.61	0.63

**Table 74. Multiple-Choice Item Analyses, Grade 10 Mathematics**Mean Item-Total Corr.: 0.34 Mean  $p$ -Value: 0.46

Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value	Item #	Session	CS	SA	Item-Total Corr.	Omit %	$p$ -Value
1	1	3		0.29	0.16	0.45	31	2	3		0.31	0.61	0.64
3	1	1/6		0.35	0.42	0.53	33	2	1/6		0.34	0.79	0.28
4	1	4/5		0.27	0.42	0.31	34	2	1/6		0.32	0.40	0.33
5	1	1/6		0.44	0.21	0.59	35	2	4/5		0.47	0.44	0.34
6	1	2		0.54	0.22	0.44	37	2	2	1	0.24	0.31	0.46
7	1	4/5		0.45	0.38	0.28	38	2	2		0.38	0.27	0.60
9	1	4/5		0.21	0.30	0.46	39	2	2	1	0.56	0.41	0.58
10	1	3		0.39	0.36	0.55	41	3	4/5		0.32	0.43	0.17
11	1	1/6		0.41	0.17	0.57	43	3	4/5		0.24	0.24	0.35
13	1	1/6		0.38	0.39	0.32	44	3	2		0.35	0.27	0.39
14	1	3		0.40	0.27	0.61	45	3	4/5		0.23	0.40	0.47
15	1	4/5		0.27	0.35	0.22	46	3	3	2	0.34	0.35	0.37
16	1	3	2	0.06	0.36	0.08	47	3	2		0.44	0.37	0.42
18	1	2	1	0.40	0.37	0.62	48	3	1/6		0.33	0.60	0.29
19	1	1/6		0.56	0.76	0.37	50	3	2	1	0.17	0.29	0.78
21	2	4/5		0.45	0.80	0.27	51	3	2		0.39	0.50	0.59
22	2	1/6		0.14	0.13	0.65	52	3	1/6		0.33	0.27	0.71
24	2	3	2	0.41	0.12	0.71	53	3	2		0.35	0.28	0.33
25	2	2		0.41	0.20	0.37	55	3	3		0.38	0.33	0.51
26	2	4/5		0.38	0.17	0.49	56	3	3	2	0.30	0.25	0.53
27	2	1/6		0.19	0.99	0.43	58	3	1/6		0.32	0.64	0.38
29	2	3	1	0.32	0.23	0.77	59	3	2		0.39	0.45	0.70
30	2	2		0.20	0.73	0.35							

**Table 75. Constructed-Response Item Analyses, Grade 10 Mathematics**Mean Item-Total Corr.: 0.63 Mean *p*-Value: 0.31

Item #	Part	Session	CS	SA	Item-Total Corr.	% Score					Omit %	<i>p</i> -Value
						0	1	2	3	4		
2		1	3		0.55	50.43	35.58	11.45			2.54	0.29
8		1	4/5	1	0.65	49.41	35.91	4.95	8.19		1.55	0.23
12		1	2	1	0.68	38.12	31.43	27.23			3.21	0.43
17		1	1/6		0.58	66.16	17.59	8.92	3.73		3.59	0.16
20		1	3	1	0.63	9.40	17.27	40.02	21.90	10.08	1.33	0.51
23		2	1/6		0.66	45.97	28.51	23.54			1.98	0.38
28		2	2		0.69	57.88	15.87	15.02	7.02		4.22	0.22
32		2	3		0.44	18.48	44.12	36.45			0.95	0.59
36		2	3		0.60	61.27	20.73	2.57	13.56		1.87	0.22
40		2	2	1	0.75	49.43	24.80	12.75	7.93	2.19	2.89	0.21
42		3	2		0.68	63.95	7.20	25.34			3.51	0.29
49		3	2	1	0.65	53.10	23.25	15.24	5.54		2.87	0.23
54		3	4/5		0.44	60.54	9.18	25.32			4.96	0.30
57		3	4/5	1	0.72	46.51	21.74	10.93	16.86		3.96	0.31
60		3	4/5		0.74	50.31	8.14	10.54	13.82	14.32	2.88	0.32

**Table 76. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Reading**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	0.81626	0.2299	0.2171	5.43	21	0.39429	-0.2940	0.1452	2.83
2	0.76130	0.7390	0.2205	18.15	22	0.86067	-1.1155	0.0946	3.16
3	1.01461	0.1204	0.2899	11.10	24	0.80360	-1.0076	0.0426	12.55
5	1.26434	-0.6383	0.2866	12.22	25	1.65835	0.5094	0.1584	185.85
6	0.88986	-0.5945	0.2203	5.68	26	1.03477	-0.5948	0.0929	13.71
7	0.37409	-1.7866	0.0978	17.35	28	0.81405	-0.5985	0.2770	13.52
8	0.65793	0.5526	0.0728	58.76	29	0.70865	0.1234	0.1697	23.20
9	0.52340	-0.5864	0.1478	9.57	30	0.95497	-1.2129	0.2420	3.69
10	1.09680	-0.1973	0.2435	19.59	31	0.72477	-1.0487	0.1452	42.09
11	0.93646	1.0259	0.2415	34.41	33	0.70245	0.6288	0.0984	11.42
12	0.38947	-1.5100	0.2000	52.00	34	1.27287	-0.7693	0.1710	9.02
14	0.85901	-1.5907	0.1452	62.96	35	1.16687	-0.7224	0.1968	6.16
15	1.14024	0.5467	0.2122	83.78	36	0.67678	-0.7717	0.1266	8.46
17	0.76904	-1.1418	0.1452	22.77	37	1.49975	-0.1395	0.1842	37.45
18	1.05045	-1.7998	0.1452	26.28	38	0.85318	-0.7096	0.1072	5.27
19	0.64414	-1.5027	0.1452	12.33	39	0.59809	1.7819	0.2788	30.44

**N=63309 M1=62.1204 M2=568.2521 Critical Z=168.82**

**Table 77. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Reading**

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		1.08995	-1.5087	1.2346			287.60
13		0.51395	-0.5474	0.1143	1.1591		192.73
16		0.46345	-0.0784	-1.1141			214.20
20		0.65037	-1.0739	0.3182	2.9801		26.17
23		0.55167	-0.0271	0.4780	2.6066		33.73
27		1.37264	-0.4317	1.2691			34.50
32		0.72308	-1.2861	0.4715	1.7318		140.87
40		1.44070	-0.0892	0.0907			50.50

**N=63309 M1=62.1204 M2=568.2521 Critical Z=168.82**

**Table 78. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Reading (Spanish)**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
3	0.93745	1.2845	0.1122	0.46	21	1.54670	-1.9758	0.2000	-0.41
4	0.34006	-0.7786	0.2000	2.84	22	0.91119	-0.1558	0.3626	-0.72
5	0.46652	1.8242	0.1691	1.76	23	1.41577	-1.4183	0.2000	-0.52
6	0.97645	1.6655	0.1508	-0.78	24	0.68224	-1.4662	0.2000	-0.18
7	0.67079	1.5778	0.1390	-0.65	27	0.67958	-1.9677	0.2000	1.36
9	0.69928	0.4300	0.2000	-0.37	28	0.85301	-0.8690	0.1528	0.09
10	0.50358	-0.1872	0.2000	2.94	29	0.59387	-1.1204	0.2000	1.68
11	0.68534	-0.4401	0.2000	0.21	30	1.06614	0.3737	0.2521	0.60
12	0.53662	0.2077	0.1659	0.37	31	1.01174	0.0811	0.2791	1.86
13	0.91829	1.1092	0.1724	-0.13	33	0.64071	-0.1927	0.2000	-0.03
14	0.18065	3.9038	0.2000	0.93	34	1.01441	0.9990	0.3235	0.35
15	0.98753	-0.9296	0.2000	-0.94	35	0.27636	3.5401	0.2294	-0.83
16	0.89134	-1.3004	0.2000	-0.73	37	1.28936	-0.8824	0.1173	-0.10
18	0.64552	-0.8697	0.2000	1.11	38	0.73287	-0.3789	0.2000	-0.77
19	1.00044	-0.8954	0.2000	-1.03	39	0.89423	-0.1471	0.2177	0.46
20	0.91870	-0.5557	0.2000	1.11	40	0.69073	-0.0368	0.1881	-0.03

Pre-Equated N=1349 M1=39.2941 M2=528.4950 Critical Z=3.60

**Table 79. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Reading (Spanish)**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		0.50984	0.7846	-1.0093	-0.3516		6.00
2		0.75468	0.6805	-0.4074	-1.5945		-0.71
8		0.96815	-0.6878	-0.3734			1.66
17		0.65207	-0.5415	-0.4347	0.1401		0.52
25		1.11052	-1.7454	-0.9812			-0.05
26		0.54739	0.6116	0.0062			3.42
32		0.71939	-0.5830	0.3039	1.8817		1.12
36		1.14170	-1.0634	-0.3895			0.98

Pre-Equated N=1349 M1=39.2941 M2=528.4950 Critical Z=3.60

**Table 80. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Writing**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
2	0.89888	-0.9973	0.1302	5.34	21	0.97118	-1.5510	0.3535	2.39
3	0.87777	0.3563	0.4775	6.81	22	0.86251	-0.6876	0.3666	9.29
4	1.06248	-1.0399	0.1839	3.10	23	1.09368	-0.8562	0.2246	5.94
5	0.85356	-0.9156	0.2190	3.43	24	1.01832	-0.6629	0.3080	6.99
6	1.28160	-1.4809	0.2156	4.71	25	0.88500	-1.5962	0.2000	0.65
7	0.73616	-2.5749	0.2000	20.88	26	0.85120	-1.5936	0.2000	5.84
8	0.57115	0.1229	0.1893	3.73	27	0.64541	-1.0831	0.1736	3.13
9	0.48577	-1.4217	0.1850	16.14	29	0.64133	-0.4865	0.1004	5.35
11	0.42110	0.3321	0.2000	6.73	30	0.60219	-1.7689	0.1878	2.99
12	0.61082	-0.6447	0.3245	2.04	31	0.84179	0.9898	0.2186	10.20
13	0.69002	-1.5528	0.1769	5.76	32	1.06893	-0.6236	0.2046	3.28
14	0.70254	-1.2455	0.2000	5.96	33	0.63265	-1.4337	0.2330	0.70
15	1.03386	0.1501	0.2278	8.54	34	1.01555	-0.7046	0.2723	8.93
16	0.71947	-1.3502	0.2000	2.55	35	0.90256	-0.3828	0.1684	5.29
17	0.83688	-0.2836	0.3389	11.66	36	0.84743	-0.4139	0.2704	9.58
18	0.74628	-0.9438	0.2000	1.11	37	0.90535	-0.8739	0.1461	5.42
19	0.79176	0.4203	0.1654	4.56	38	0.63887	-0.3251	0.2057	9.11
20	1.23151	-1.3998	0.3366	4.61					

**N=63160 M1=43.2986 M2=464.6883 Critical Z=168.43**



**Table 81. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Writing**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1	A	1.60499	-3.3907				4.26
1	B	0.92356	-3.4086				19.57
1	C	1.29974	-1.0363				18.74
1	D	1.60482	-2.1188				22.83
1	E	0.96798	0.2850				35.08
1	F	1.12531	-0.9201				15.64
10	A	1.42983	-2.9989	1.3968			61.44
10	B	1.82660	-1.9755				35.24
10	C	1.89855	-0.9125				15.85
10	D	2.07990	-1.4645				27.84
28	A	1.05570	-4.8127	1.4610			72.16
28	B	1.87632	-4.8525				9.86
28	C	1.62601	-2.0414				0.05
28	D	1.90314	-2.9197				6.47
39	A	1.24759	-3.8437	1.2014			60.77
39	B	1.63588	-3.1398				8.08
39	C	1.64937	-1.1065				8.75
39	D	1.77684	-2.3002				10.38

**N=63160 M1=43.2986 M2=464.6883 Critical Z=168.43**

**Table 82. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Writing (Spanish)**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	0.72636	-1.6356	0.2000	-0.42	21	0.56024	-0.8516	0.2000	-0.21
2	0.69865	-1.6673	0.2000	-0.09	22	0.91660	0.1488	0.2061	1.56
3	0.79960	-1.7859	0.2000	0.18	23	0.72320	-0.7483	0.2000	2.07
5	0.56896	-0.1673	0.2000	0.38	24	0.64572	-0.6175	0.2000	1.94
6	0.67890	-1.2497	0.2000	5.31	25	0.74924	-1.0085	0.2000	0.38
7	0.57375	-0.7923	0.2000	0.07	26	0.77749	1.0288	0.1889	-0.29
8	0.69572	0.3141	0.1901	-0.75	28	0.60282	-0.5751	0.1929	0.18
9	0.88029	0.3406	0.2014	0.18	29	1.09060	-1.4228	0.2000	-0.21
10	0.86365	-2.3712	0.2000	1.26	30	0.96215	-1.3955	0.2000	-0.72
11	0.71952	-1.5266	0.2000	-0.21	31	0.91521	-0.7958	0.2000	-0.66
12	0.98466	-1.9949	0.2000	0.89	32	0.63928	-0.0727	0.2000	-0.45
13	0.55883	-1.1144	0.2000	1.64	33	0.83169	-0.2761	0.1889	-0.32
14	0.70850	-1.0884	0.2000	-0.06	34	1.15607	-1.7872	0.2000	-0.91
15	0.80286	-0.9017	0.2000	-1.51	35	1.03792	-1.8187	0.2000	-1.08
17	0.95328	-0.8250	0.2000	0.81	36	0.84772	-0.4358	0.2000	2.11
18	1.35829	1.9369	0.1836	0.91	37	0.59765	0.3643	0.2000	-0.60
19	0.98987	1.7456	0.1935	0.41	38	0.56619	-1.0763	0.2000	-0.13
20	0.76280	-0.3028	0.2000	-0.26					

Pre-Equated N=1471 M1=64.1898 M2=501.4712 Critical Z=3.92

**Table 83. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Writing (Spanish)**

Item	Part	f	g1	g2	g3	g4	Fit-Z
4	A	1.08595	-1.7175				-1.12
4	B	1.10075	1.3937				2.66
4	C	1.05723	-0.8095				0.68
4	D	1.07840	-0.7179				0.51
4	E	1.14458	-0.1152				0.73
4	F	0.91387	-1.5841				0.33
16	A	1.05874	-2.6250	1.2813			-0.51
16	B	1.16766	-0.7295				0.23
16	C	1.84093	-1.9080				2.70
16	D	1.68899	-3.1443				-0.99
27	A	1.41742	-1.5381	1.7595			2.24
27	B	1.58094	0.1036				0.50
27	C	2.23694	-1.1389				-0.68
27	D	1.98233	-2.0143				-0.39
39	A	1.06278	-1.8229	1.4828			-0.62
39	B	1.06040	0.4272				-0.82
39	C	1.63350	-0.8728				0.40
39	D	1.23269	-2.0762				0.39

**Pre-Equated N=1471 M1=64.1898 M2=501.4712 Critical Z=3.92**

**Table 84. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 3 Mathematics**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	0.73568	1.2801	0.0948	4.37	21	0.70834	-3.2447	0.2000	13.85
2	1.22415	0.2576	0.1600	19.71	22	0.41606	0.0924	0.3594	6.93
3	0.67723	-0.1687	0.2297	1.33	23	1.31438	0.8023	0.1400	33.27
4	0.83690	0.5200	0.2166	8.81	24	0.81331	-2.1397	0.1627	20.52
5	0.82820	-0.1964	0.4287	15.82	25	1.09893	-0.1746	0.1198	11.73
7	0.66228	-1.9534	0.0776	6.49	27	1.01211	-0.0806	0.0880	34.75
8	0.53160	0.7237	0.2877	3.11	28	0.64718	-3.0696	0.2000	17.29
9	0.89136	-0.2278	0.1912	15.59	29	0.79189	-2.0276	0.1627	15.76
10	1.16838	-1.3830	0.1744	8.11	31	1.05866	-0.9260	0.0897	4.49
12	0.51623	1.1415	0.4990	8.22	32	0.67504	-0.9371	0.2300	1.45
13	0.73565	-0.4682	0.1595	4.94	33	1.02435	-0.6536	0.0753	7.77
14	0.74821	-1.7731	0.0557	18.62	34	1.24496	-1.1090	0.0702	15.24
16	1.08160	-0.1093	0.1515	13.14	35	0.65358	-1.0628	0.0683	2.71
17	0.84155	-1.7240	0.1216	8.70	37	0.90450	-0.2508	0.1417	6.27
18	0.81083	-0.5476	0.2096	35.94	38	1.12300	-0.2914	0.0457	7.82
19	1.04161	-0.8550	0.3078	6.20	39	1.45043	-0.6662	0.1165	20.56

**N=64814 M1=79.3969 M2=469.2668 Critical Z=172.84**

**Table 85. Item Parameter and Fit Summary, Constructed-Response Items, Grade 3 Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
6		1.54952	-1.7021	1.9996			72.23
11		0.91339	-1.4983	-0.7640			41.81
15		1.06860	1.7230	1.7264			55.70
20		0.61376	-1.7349	-0.8258	0.3384		13.78
26		0.82895	-0.2278	-0.0907			41.52
30		0.92541	0.8189	-1.0412			51.12
36		1.13831	0.5237	-1.3523			86.26
40		0.87056	-0.3320	0.2819	1.7301		65.19

**N=64814 M1=79.3969 M2=469.2668 Critical Z=172.84**

**Table 86. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Reading**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
4	0.82210	-1.4770	0.3095	8.51	39	0.88830	0.0247	0.1920	23.28
5	0.72582	-1.1774	0.2473	25.16	40	0.81949	-0.9441	0.2007	12.76
7	0.57169	-2.5670	0.2000	59.88	41	1.15426	-0.6000	0.2108	4.84
9	0.84123	-2.4472	0.2000	14.72	43	1.27083	-1.3175	0.1921	1.77
10	0.48446	-0.8081	0.1101	10.52	44	1.20772	-0.3055	0.3267	13.69
11	0.80513	0.2880	0.2494	21.71	46	0.82599	0.3106	0.2978	12.75
12	0.84592	0.0672	0.1367	12.68	47	0.92141	-0.8027	0.1693	1.92
13	1.02955	-1.3661	0.2121	2.74	48	0.48811	-0.2056	0.1593	56.02
14	0.60151	-2.1147	0.2000	54.09	50	0.89729	0.3468	0.2496	28.62
15	0.77803	0.4721	0.2590	8.52	52	0.87672	-0.6645	0.1769	8.21
16	0.90514	-0.2367	0.2143	24.29	53	0.55217	-1.9240	0.2000	116.82
17	1.18937	1.8960	0.2810	59.80	96	1.16618	-0.4717	0.2289	4.90
18	0.59178	1.2241	0.2550	8.82	97	0.73763	-0.9239	0.2506	6.35
20	0.65392	1.7950	0.2661	6.65	98	0.79322	-1.9319	0.1945	148.53
22	0.68064	0.8593	0.2085	1.62	100	1.00840	0.4282	0.1830	18.50
23	1.10978	0.5731	0.1995	38.24	101	1.03154	-1.6264	0.2698	6.09
24	1.21049	0.3216	0.2404	11.90	102	0.89895	-0.7728	0.1500	1.66
25	1.35496	-0.9048	0.1798	8.23	104	1.51160	0.2624	0.2150	73.12
26	1.44441	-0.1430	0.1644	16.91	105	0.97456	-1.0134	0.0766	0.26
28	0.94284	-0.4927	0.1728	22.83	107	0.88670	-1.0978	0.2066	6.12
29	1.09582	-0.6756	0.2003	2.43	108	0.69124	-0.1904	0.1596	21.11
31	0.97258	-0.7584	0.2110	9.59	109	1.12279	-1.7436	0.1705	10.14
32	1.06578	1.1256	0.1937	12.97	110	1.02633	-1.7513	0.0519	27.54
33	0.57483	-1.6490	0.1411	1.97	111	0.98983	-0.0579	0.1923	14.20
34	1.10941	-0.1836	0.3141	16.87	112	0.47995	-0.0573	0.0700	37.57
36	0.55627	-0.1999	0.1069	-0.95	113	0.61153	0.5390	0.1522	4.84
37	0.64740	-0.7000	0.2396	14.99	115	1.10062	-1.5985	0.1671	19.20
38	1.61949	0.9140	0.1394	181.31					

**N=64117 M1=50.8127 M2=591.1516 Critical Z=170.98**

**Table 87. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Reading**

Item	Part	f	g1	g2	g3	g4	Fit-Z
6		0.66648	-0.9169	-1.0872	-2.3632		22.55
8		0.62294	-0.6807	-1.4564			11.56
19		1.18263	0.2243	0.8954			139.87
21		1.08452	0.9069	1.5595	3.0112		47.47
27		1.39932	-2.2566	0.8667			118.59
30		1.26992	-0.8780	0.1506			7.10
35		0.44526	-0.7285	0.4112	1.0609		129.78
42		0.64849	-1.3562	0.3315	0.9169		54.03
45		0.84853	-0.7112	1.1801	2.6223		98.61
49		0.83458	-0.3558	0.7550	0.0761		166.75
51		0.98786	0.5564	2.4097			72.71
103		0.75917	-0.9483	-1.7003			87.26
106		1.34969	-0.4886	1.5868			73.58
114		0.64024	-0.1255	0.0323	-0.4771		46.19

**N=64117 M1=50.8127 M2=591.1516 Critical Z=170.98**

**Table 88. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Reading (Spanish)**

Item	Source Year	a	b	c	Fit-Z	Item	Source Year	a	b	c	Fit-Z
4	2004	0.83	0.55	0.18	-0.1	39	2004	0.47	-0.26	0.20	-0.6
5	2005	1.08	0.40	0.26	-0.4	40	2004	0.85	-1.09	0.20	-0.4
6	2005	0.37	-0.98	0.20	1.1	41	2004	0.75	0.07	0.20	0.1
7	2004	1.64	1.44	0.27	-0.2	43	2004	0.79	1.02	0.17	-0.5
8	2004	0.50	2.47	0.22	0.0	46	2004	0.86	-1.13	0.20	-0.5
9	2004	0.86	-0.09	0.31	-0.2	47	2004	1.39	2.34	0.34	-0.9
10	2004	0.67	0.02	0.30	0.0	48	2004	0.99	1.82	0.27	2.4
11	2004	0.17	-1.09	0.20	-0.6	91	2004	0.88	-1.58	0.20	-0.7
12	2004	0.24	3.74	0.20	0.9	92	2004	0.58	-0.77	0.20	2.7
15	2004	0.26	-1.31	0.20	-1.1	93	2005	0.94	-0.07	0.20	0.5
16	2004	0.61	-0.87	0.20	-0.1	94	2004	0.55	-1.11	0.20	0.5
17	2004	0.33	-2.10	0.20	-0.2	95	2004	0.80	-1.43	0.20	0.6
18	2004	0.65	-0.91	0.20	0.4	96	2005	0.98	-0.24	0.24	0.3
19	2004	0.87	-2.42	0.20	-0.1	99	2004	0.50	0.62	0.20	0.8
20	2004	0.14	0.37	0.20	1.3	101	2004	0.67	0.49	0.18	-1.1
21	2004	0.91	-0.01	0.18	-0.3	102	2004	0.95	0.76	0.18	0.3
22	2004	0.92	0.25	0.16	-0.1	103	2004	0.81	-1.02	0.20	0.3
23	2004	0.57	0.30	0.20	2.9	104	2004	0.87	-0.03	0.35	0.7
24	2007	0.58	-0.48	0.20	-0.5	105	2007	0.56	0.06	0.20	-0.3
26	2004	0.36	0.36	0.20	0.0	106	2004	1.09	1.37	0.18	-0.2
27	2005	1.29	-0.76	0.40	0.2	107	2004	1.08	0.59	0.24	-0.2
28	2004	0.46	-0.70	0.20	-1.2	109	2004	0.50	-0.55	0.20	0.1
30	2004	0.46	1.17	0.20	-1.4	110	2004	0.51	0.50	0.20	-0.3
32	2007	0.74	0.91	0.20	-0.4	111	2004	0.96	-0.50	0.21	1.3
35	2004	0.94	-0.95	0.20	-1.5	112	2004	0.48	0.09	0.20	1.1
36	2004	1.19	0.02	0.18	0.6	113	2004	0.32	-1.53	0.20	1.7
37	2004	0.87	-1.01	0.20	-0.3	114	2004	0.70	-0.31	0.21	-1.1
38	2004	0.77	0.92	0.20	0.1	115	2004	0.82	0.19	0.24	-0.3

**2004 Pre-Equated N=523 M1=33.6050 M2=534.8632 Critical Z=1.39**

**2005 Pre-Equated N=489 M1=39.5116 M2=550.2315 Critical Z=1.30**

**2007 Pre-Equated N=264 M1=36.1958 M2=514.4683 Critical Z=0.70**

**Table 89. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Reading (Spanish)**

Item	Part	Source					Fit-Z
		Year	f	g1	g2	g3	
13		2004	0.57	-0.60	-0.85	0.97	0.1
14		2004	0.44	0.17	2.84		0.7
29		2004	0.92	-1.39	-0.76	-1.82	-2.0
31		2007	1.13	1.92	1.17		-1.1
33		2004	0.51	-0.10	0.50	0.59	1.2
34		2004	0.82	-0.60	-0.16	-0.21	1.3
42		2004	0.71	0.29	0.84		-0.3
44		2004	0.53	-0.16	-0.41		1.7
45		2007	0.68	0.24	0.39	1.66	-0.7
97		2004	0.51	-0.50	0.36		-0.7
98		2004	0.59	-0.40	0.16	0.37	-1.1
100		2004	0.74	-0.30	0.90		-1.7
108		2004	0.74	-0.47	-1.38		0.5
116		2004	0.45	0.79	-1.94	1.37	1.4

**2004 Pre-Equated N=523 M1=33.6050 M2=534.8632 Critical Z=1.39**

**2007 Pre-Equated N=264 M1=36.1958 M2=514.4683 Critical Z=0.70**



**Table 90. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Writing**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
54	0.69786	-0.1912	0.2613	4.65	74	0.77539	-1.1072	0.2000	3.67
55	0.64126	-2.8434	0.2000	8.08	75	0.62986	-1.8708	0.2000	14.12
56	0.80365	-0.3784	0.3040	4.93	76	0.58327	0.0766	0.0889	6.87
57	0.86539	-1.4335	0.1571	10.55	78	0.72169	-0.0578	0.1247	14.92
58	0.87294	-0.1330	0.4468	7.45	79	1.13295	-0.5183	0.2355	3.70
59	0.89712	0.1642	0.2898	8.69	80	1.36891	-0.9904	0.2567	12.00
60	0.75925	-0.1023	0.1785	4.79	81	1.01979	-1.2075	0.2330	37.89
61	0.62657	1.0499	0.1837	3.31	82	0.93292	-1.0074	0.2079	1.61
62	0.56090	-1.3516	0.1269	3.14	83	1.38400	-0.9875	0.2337	13.55
63	1.05087	-0.8985	0.1997	1.28	84	1.05681	-0.5020	0.1335	13.08
64	0.86816	-0.9003	0.1620	0.48	85	1.31990	-0.9877	0.1886	11.49
65	0.85990	0.2034	0.2147	8.25	86	0.86525	0.0656	0.1329	17.50
66	0.48043	-1.3035	0.2000	28.75	87	0.51739	-1.5564	0.2000	41.04
67	0.70556	-1.6687	0.1880	0.19	88	0.95350	-1.2663	0.2060	4.32
68	0.66420	0.1630	0.2137	3.98	89	0.85272	-0.5240	0.1724	0.98
69	0.55657	-0.2464	0.1982	0.55	90	0.78174	0.7392	0.3312	10.09
70	0.68763	-0.2271	0.1159	1.03	91	1.19336	-0.4285	0.1560	15.83
71	0.81133	-2.0676	0.1414	2.43	92	0.88956	-0.7889	0.1531	31.20
72	0.63366	0.0892	0.1517	3.48	93	1.09243	-0.8922	0.1643	3.55
73	0.56473	-0.6889	0.1651	4.58	94	0.93684	-0.0805	0.1275	28.93

**N=64061 M1=45.7822 M2=486.4174 Critical Z=170.83**

**Table 91. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Writing**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		0.92499	-4.4885				3.85
2	A	0.66381	1.0885				9.48
2	B	1.08812	-1.6903				27.23
2	C	0.28817	1.2196				25.43
2	D	1.30611	-1.5581				63.08
2	E	0.35109	1.1383				43.62
2	F	1.27289	0.2201				4.70
3	A	1.16739	-2.6403	-2.4264	-0.1766	1.9370	380.19
3	B	1.37413	-5.9992	-2.6593	-0.0569	2.1687	87.75
3	C	1.54810	-4.7576	-2.7211			43.43
77		0.89619	-2.8371	-2.0758	0.6972	3.1233	118.51
95		0.78675	-1.6155	-1.2674	0.9990	2.4221	227.59
116		1.10720	-2.9151	-1.1883	1.3412	3.1105	67.50

**N=64061 M1=45.7822 M2=486.4174 Critical Z=170.83**

**Table 92. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Writing (Spanish)**

Item	Source Year	a	b	c	Fit-Z	Item	Source Year	a	b	c	Fit-Z
49	2004	0.63	-1.77	0.20	0.0	70	2004	0.91	0.74	0.20	-0.5
50	2004	0.77	-1.13	0.20	-0.4	71	2004	0.56	0.45	0.20	2.2
51	2004	0.61	-1.44	0.20	0.5	72	2004	0.64	0.31	0.20	-0.1
52	2004	0.41	1.19	0.20	-0.1	73	2004	0.63	1.09	0.22	-1.1
53	2004	0.73	-2.73	0.20	-1.3	74	2004	0.96	-0.16	0.30	3.7
54	2004	0.55	-0.15	0.20	0.9	75	2004	0.37	1.69	0.21	-0.5
55	2005	0.56	-1.26	0.20	1.4	76	2004	0.63	0.98	0.20	-0.3
56	2004	0.56	-1.38	0.20	1.0	77	2004	0.66	1.31	0.23	-1.1
57	2004	0.67	0.91	0.19	-0.7	78	2004	1.22	1.17	0.22	-0.8
58	2004	1.01	0.64	0.31	0.9	79	2004	0.23	-0.69	0.20	1.8
59	2004	0.65	0.81	0.20	-0.5	80	2004	1.64	1.21	0.26	-1.0
60	2004	0.49	0.23	0.20	-0.7	81	2005	0.92	0.48	0.30	-0.9
61	2004	1.10	0.64	0.30	-0.2	82	2004	1.27	0.63	0.18	0.3
62	2004	0.59	2.15	0.19	-0.8	83	2005	0.52	0.21	0.19	0.8
64	2004	0.87	0.97	0.24	-0.2	84	2005	1.02	0.50	0.20	-0.6
65	2004	1.09	-0.58	0.23	-1.5	85	2004	1.10	0.81	0.19	1.5
66	2004	1.12	0.33	0.35	0.5	86	2004	0.32	2.81	0.20	-0.8
67	2004	1.21	0.10	0.26	-0.7	87	2004	0.95	1.37	0.19	-0.1
68	2004	1.28	-0.24	0.20	-0.3	88	2004	0.77	-0.23	0.20	-0.6
69	2004	1.01	0.07	0.19	0.4	89	2004	0.72	0.65	0.19	-0.5

**2004 Pre-Equated N=526 M1=38.1156 M2=519.2253 Critical Z=1.40**

**2005 Pre-Equated N=490 M1=36.9687 M2=524.4168 Critical Z=1.31**

**Table 93. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Writing (Spanish)**

Item	Part	Source	f	g1	g2	g3	g4	Fit-Z
		Year						
1		2005	0.44	-3.42				-1.7
2	A	2002	1.40	-2.79				-0.9
2	B	2002	1.11	-0.58				-0.2
2	C	2002	0.85	-1.11				-0.1
2	D	2002	0.54	-0.75				-0.1
2	E	2002	1.21	-0.81				0.2
2	F	2002	1.25	0.74				-0.5
3	A	2005	0.66	-0.06	-1.80	-0.33	2.52	1.6
3	B	2005	1.09	-3.73	-2.60	-0.00	3.15	-1.2
3	C	2005	1.14	-4.33	1.14			1.0
25		2005	0.57	0.21	-1.43	0.08	1.90	1.2
63		2007	0.72	-1.65	-1.25	0.99	2.18	-2.6
90		2005	0.46	0.35	-2.18	-0.20	1.00	-1.1

**2002 Pre-Equated N=1001 M1=39.9142 M2=522.7280 Critical Z=2.67**

**2005 Pre-Equated N=490 M1=36.9687 M2=524.4168 Critical Z=1.31**

**2007 Pre-Equated N=264 M1=33.0014 M2=508.4550 Critical Z=0.70**

**Table 94. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 4 Mathematics**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	0.95839	-0.2437	0.1055	13.73	36	0.64362	-1.5528	0.2001	8.96
2	0.96449	0.5316	0.2176	12.04	37	1.09735	-1.4123	0.3437	9.08
3	0.77114	-1.2676	0.2000	4.34	38	1.49534	0.9366	0.2187	75.44
4	0.97744	-0.4255	0.1581	1.41	39	0.34867	-2.6909	0.2000	6.26
6	0.93029	1.2959	0.2151	2.54	40	1.20119	-0.3801	0.2000	13.85
7	0.91233	0.0047	0.2081	6.22	42	0.91088	0.3738	0.3659	5.23
8	1.11539	-0.3710	0.1666	4.06	43	0.82127	-0.5845	0.2126	1.01
9	0.94844	-0.5909	0.3151	23.31	44	0.85318	0.2464	0.2053	9.82
10	0.84899	-0.6053	0.2261	7.17	45	1.16181	0.3247	0.1125	9.84
11	0.49340	2.1197	0.2439	0.45	47	1.24547	-0.8181	0.1531	2.47
13	0.88854	-0.6150	0.2064	4.11	48	0.85063	-0.7630	0.1603	15.70
14	1.20261	-0.2497	0.1305	5.31	49	1.20292	-0.1880	0.1185	22.41
15	0.50274	-2.4467	0.2000	63.03	50	0.60973	-1.8927	0.1444	6.76
17	1.12506	-0.2749	0.3440	3.14	52	0.41745	-0.5682	0.1425	9.39
19	0.75439	-1.5835	0.1692	9.01	53	0.47508	-0.1603	0.3020	2.85
20	0.93347	-0.3884	0.2983	10.79	54	0.57925	-0.8332	0.2000	1.69
21	0.65415	1.2056	0.2107	8.13	55	0.42485	-2.4968	0.2000	48.19
22	1.12889	0.0776	0.1382	5.90	56	0.99501	-0.1415	0.1946	6.49
24	0.92789	-0.1305	0.0909	8.30	58	0.84739	0.0578	0.2449	14.70
25	0.77035	-0.8239	0.1908	2.50	59	1.33188	0.5368	0.2281	6.21
26	1.19558	-0.1513	0.1927	40.66	61	0.76254	-0.6831	0.1540	5.41
28	0.61603	0.4207	0.2705	20.91	62	1.58977	-0.1631	0.2065	18.72
29	1.23336	-0.4878	0.2662	9.60	63	0.57122	0.8554	0.2725	30.84
30	0.53711	-2.5146	0.0000	6.89	64	0.79602	-0.6274	0.0825	8.21
32	0.53224	-2.5580	0.2000	29.96	65	0.84779	0.7863	0.4259	44.99
33	0.85254	-1.0523	0.0512	3.78	67	0.98140	-0.8887	0.1958	9.56
34	0.67055	-0.0354	0.2491	3.83	68	0.54317	-3.3754	0.2000	40.26

**N=64271 M1=69.7467 M2=496.7808 Critical Z=171.39**

**Table 95. Item Parameter and Fit Summary, Constructed-Response Items, Grade 4 Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
5		1.20397	-0.9065	0.3475			257.35
12		0.73106	-2.7229	-1.5700	-1.4098		12.54
16		0.52115	0.6702	-2.0734			124.03
18		0.59432	-2.0010	-1.2074	0.1336		14.40
23		1.08558	-2.4339	0.1161	0.4867	1.2095	66.47
27		1.48293	-1.6211	-0.0502			28.74
31		1.07649	-1.3410	-0.7178	0.0708		12.76
35		0.92550	-1.7957	-1.2892			15.95
41		0.78197	-1.4267	-0.6586	-1.8091		30.02
46		0.60942	-0.3860	-0.5547	0.0445	-1.7109	86.62
51		1.27853	1.2809	1.0864			28.81
57		0.80717	-0.1957	-0.0239	-0.2508		220.69
60		1.10488	-0.5149	-0.6145			46.57
66		1.06547	1.0274	1.9254	0.5613		104.56
69		0.68397	-0.6927	-0.2764	0.5067	-0.4625	91.93

**N=64271 M1=69.7467 M2=496.7808 Critical Z=171.39**

**Table 96. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 Reading**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
4	0.72338	-0.6599	0.2354	4.11	41	0.88878	-0.3764	0.2255	16.25
7	0.98534	-0.4903	0.1772	3.96	42	1.13694	-0.7075	0.4982	20.57
8	1.09775	-1.1902	0.2450	1.69	43	0.74494	-0.5800	0.1804	3.45
9	0.93273	0.0495	0.1488	4.37	44	0.46854	-0.4276	0.0671	10.63
10	0.48610	-0.4795	0.0913	19.10	45	0.65453	0.5025	0.2021	6.21
11	0.40699	-0.2954	0.1308	7.11	46	1.18344	-0.5347	0.2430	10.85
13	0.99020	-2.0427	0.2000	23.93	48	1.33466	-0.9830	0.2694	7.06
14	0.82351	-0.4043	0.1573	9.54	49	0.73000	-0.0218	0.1720	23.32
15	0.44954	-0.1010	0.2000	57.25	50	0.78744	0.3217	0.2652	4.81
16	0.62358	-0.4769	0.1570	13.47	95	0.71702	-1.6750	0.0861	11.25
18	1.01245	-2.2947	0.0896	38.80	97	1.41953	0.1111	0.2868	15.28
19	0.89798	-1.1469	0.0616	25.20	98	1.26278	1.6085	0.1770	26.89
20	0.92885	-0.8343	0.2505	2.61	99	0.49146	-0.2463	0.1470	10.42
21	0.82916	-0.5345	0.2725	12.63	100	0.99659	1.8011	0.1830	6.37
22	0.97477	-1.4183	0.1638	1.74	101	1.08475	0.0074	0.3372	8.70
23	1.06452	-0.2310	0.2592	10.35	102	0.20747	0.6117	0.2000	1.00
24	0.68048	-0.2884	0.2388	3.35	103	0.70184	0.2331	0.1285	2.44
26	0.86080	0.4431	0.1646	12.60	104	0.68987	-0.4949	0.1890	5.38
28	1.04223	-0.7938	0.2464	13.19	105	0.83515	1.0602	0.1988	3.94
29	0.93678	-0.8466	0.1786	11.03	106	0.35300	-1.2460	0.0000	7.40
30	1.01981	-0.6736	0.2627	10.28	107	0.60226	-2.0742	0.2000	74.41
31	0.75788	-1.7675	0.2000	12.10	108	0.57155	-0.9531	0.1910	84.03
32	0.70686	0.6138	0.1175	41.26	109	1.32167	-1.4881	0.1467	8.05
34	0.52234	1.0803	0.1346	7.56	110	1.23857	-0.8853	0.1542	2.57
35	1.36475	-0.7467	0.3086	2.41	112	0.83927	-1.2115	0.0938	16.65
36	0.55937	-0.2901	0.1389	1.79	113	1.01995	-1.4111	0.1461	10.35
37	1.04675	0.0886	0.2697	6.96	115	1.01842	-0.3881	0.2720	4.80
38	1.15953	0.2399	0.2630	12.22					

**N=64554 M1=58.6405 M2=618.6125 Critical Z=172.14**

**Table 97. Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 Reading**

Item	Part	f	g1	g2	g3	g4	Fit-Z
5		0.74997	-0.8036	0.7627	2.1103		54.90
12		0.76638	-0.6327	0.9116	1.0080		67.52
17		0.50840	-0.2284	-0.0667	-0.4603		55.68
25		1.19822	-0.0113	2.8098			36.20
27		1.32079	-0.2478	2.3122			32.78
33		0.94876	-1.4450	-0.1288	1.5704		57.05
39		1.03614	-0.5283	-0.2904	0.7204		36.69
40		0.96342	-0.8459	1.1257	1.9114		152.34
47		1.34978	-0.8418	1.8863			93.10
51		0.96259	-0.6719	0.7658			24.26
94		0.90212	0.5504	0.8354			90.14
96		0.61280	-0.7260	1.1377	0.7849		56.62
111		1.12167	-2.9928	0.0695			195.03
114		1.20823	-1.7054	-0.0844			30.34

**N=64554 M1=58.6405 M2=618.6125 Critical Z=172.14**

**Table 98. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 Writing**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
52	1.08832	-0.3912	0.3129	7.92	72	0.57446	0.2597	0.1641	4.30
53	0.36719	-1.1331	0.2000	23.64	73	0.60150	0.1648	0.2000	18.09
54	0.63672	-0.4779	0.1328	2.17	75	1.18447	-1.1644	0.4024	9.80
55	0.50945	-0.9042	0.1328	2.54	76	0.94226	1.5558	0.2836	6.61
56	0.66797	-0.9181	0.2000	4.18	77	1.20345	-1.0197	0.1899	24.25
57	1.12557	-1.5252	0.2265	13.14	78	0.74344	0.1362	0.0846	34.40
58	0.60336	0.6276	0.1615	0.93	79	0.92872	0.0056	0.3001	12.22
59	0.67426	-0.4939	0.1086	1.00	80	0.40885	0.6442	0.1779	18.17
60	1.27738	-1.0079	0.2232	9.76	81	1.19952	-0.5140	0.2700	8.83
61	1.28977	-0.4191	0.2850	9.82	82	0.81491	-0.0148	0.2316	2.36
62	0.94631	1.6239	0.2032	33.68	83	0.73741	0.5997	0.1543	8.84
63	1.09916	-0.8099	0.3231	13.72	84	0.92528	-0.2170	0.2395	5.01
64	0.65649	0.1460	0.1709	4.96	85	0.41464	1.5425	0.0975	47.80
65	0.84627	-0.9598	0.3141	3.98	86	0.96787	0.5622	0.2141	12.27
66	0.53809	-2.6434	0.2000	7.80	87	1.41835	-0.4346	0.2839	11.56
67	1.33049	-1.3739	0.2567	11.38	88	1.15558	-1.5298	0.2510	8.00
68	0.85375	-0.2693	0.1936	13.35	89	0.84385	-0.0244	0.2343	9.09
69	0.94926	-0.4959	0.2743	8.72	90	0.56179	-0.4535	0.0751	39.79
70	0.70515	1.7631	0.1676	6.06	91	0.67925	-0.2013	0.1009	31.77
71	0.35677	-0.0035	0.1910	3.63	92	1.38210	-0.8917	0.3480	14.10

**N=64525 M1=50.3570 M2=503.2642 Critical Z=172.07**

**Table 99. Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 Writing**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		0.96196	-4.7335				6.23
2	A	1.39983	-0.0675				21.01
2	B	0.99197	-0.8922				9.07
2	C	0.97539	-1.0636				31.19
2	D	0.70059	-3.1653				0.96
2	E	1.61346	-2.5736				10.73
2	F	0.97862	-1.1388				221.05
3	A	1.18008	-2.0915	-3.2023	-0.7160	1.3310	1231.99
3	B	1.48387	-5.9531	-3.5293	-0.6587	1.5802	57.22
3	C	1.85385	-5.6644	-3.5489			26.93
74		0.87358	-2.5586	-2.4513	-0.0584	2.3400	115.82
93		0.88400	-2.0817	-1.1975	1.0754	2.9238	242.08
116		0.91707	-2.1751	-2.8491	-0.0043	2.8751	144.55

**N=64525 M1=50.3570 M2=503.2642 Critical Z=172.07**



**Table 100. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 5 Mathematics**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	1.16326	0.0129	0.1711	9.05	35	1.19093	-0.8825	0.2029	2.32
2	0.98295	-1.3041	0.3400	5.55	36	1.31671	1.1080	0.2293	16.49
3	0.56928	1.5481	0.2922	1.64	37	1.33577	-0.3910	0.2051	4.89
4	0.54490	0.2834	0.2000	38.87	39	1.02186	-1.8739	0.1779	6.45
5	0.87737	-1.3297	0.0625	55.25	40	0.79511	-1.2413	0.1095	0.85
7	0.71544	-0.3147	0.2381	10.61	42	1.03389	-0.3788	0.1580	6.96
8	1.20046	0.5136	0.1675	3.55	43	1.56646	-0.3750	0.1772	29.38
9	0.86741	-1.2244	0.0961	2.31	44	1.46568	-0.6699	0.1737	14.07
11	0.79373	-1.4565	0.1702	1.77	45	0.69006	-0.6576	0.2284	25.96
12	1.07302	-1.2966	0.2595	0.30	47	0.99113	-0.9984	0.1722	1.43
13	1.39043	1.0155	0.2110	18.89	48	0.88120	0.1749	0.2026	0.73
14	0.72362	-2.2282	0.2000	4.01	49	0.74720	-0.8008	0.0627	10.26
16	0.87077	-0.5873	0.1583	1.57	50	0.74969	-0.8986	0.2000	71.51
17	0.93439	-0.9440	0.1270	5.02	51	0.85769	-1.3798	0.2460	2.08
18	1.28499	0.3923	0.1150	35.00	53	0.94742	0.0743	0.1549	8.00
19	0.79208	-1.4898	0.2000	21.90	54	1.36490	1.3729	0.4219	4.28
21	0.93573	1.0619	0.2681	0.67	55	1.01441	-0.0253	0.1839	9.62
22	0.82236	1.3696	0.3476	17.73	56	0.83024	-1.8117	0.0923	3.82
24	0.96473	-0.4309	0.1037	0.18	58	0.72399	0.3075	0.3588	9.69
25	0.98664	-0.8914	0.1177	8.11	60	0.54129	-1.1778	0.1184	0.44
26	0.78796	-0.0218	0.1725	5.29	61	0.60457	-2.3862	0.2000	15.91
28	0.54384	-2.4804	0.2000	31.08	62	1.06296	-0.1275	0.1850	6.83
29	1.05886	0.1503	0.2366	1.78	64	0.65076	0.3102	0.1689	3.49
30	0.82079	0.6480	0.2064	9.27	65	0.91306	-0.0831	0.3633	26.91
31	0.39446	1.8314	0.0477	19.01	66	1.64478	1.0191	0.2343	121.01
32	0.76105	-2.3187	0.2000	9.23	67	0.79460	-0.8913	0.0393	12.82
34	0.81777	-0.0642	0.0928	12.01	68	0.88764	0.5189	0.2120	3.66

**N=64618 M1=67.5095 M2=520.2473 Critical Z=172.31**

**Table 101. Item Parameter and Fit Summary, Constructed-Response Items, Grade 5 Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
6		1.28419	-2.2472	0.0450			60.20
10		0.87274	-3.5797	1.4122	0.5007		80.12
15		0.51780	0.3692	-2.5200			128.04
20		0.84493	-2.1617	-0.9955	0.9085		78.08
23		0.92935	-1.7072	-1.4320	0.5593	1.4837	350.30
27		1.40515	-2.2903	-0.5719			72.25
33		1.39966	0.5434	0.6187	1.6300		43.24
38		1.22539	1.3766	0.7597			263.62
41		1.53825	1.0204	0.6139	1.5878		121.17
46		0.83615	-2.2779	-0.7758	-0.2370	-0.4230	101.86
52		1.00433	-1.1701	1.1368			339.55
57		1.06522	-1.6187	-0.9610	-0.0178		15.68
59		1.29054	0.6521	-0.6128			35.86
63		1.22144	1.0377	1.9246	2.5055		45.17
69		1.08375	-2.6912	-0.7766	1.3382	1.2004	52.52

**N=64618 M1=67.5095 M2=520.2473 Critical Z=172.31**

**Table 102. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 6 Reading**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
5	0.65822	-1.9559	0.2000	15.01	38	0.67203	-1.2713	0.0505	19.53
7	1.44304	-0.2562	0.3098	11.77	39	0.65325	-0.1653	0.2000	29.61
8	1.12277	1.3380	0.1751	27.66	41	0.48881	1.6847	0.1999	42.49
9	0.84910	0.9079	0.4040	8.31	42	0.47342	-0.8498	0.1457	2.14
10	0.55690	-0.0718	0.1634	4.09	43	0.46384	-0.0248	0.2000	112.88
11	0.75128	-1.9870	0.1778	80.34	44	1.40644	1.0957	0.1757	178.85
13	0.99337	0.3319	0.2304	7.14	47	0.99616	0.2295	0.1114	8.69
14	0.90232	-0.2213	0.1973	4.05	48	0.67135	0.8696	0.3114	11.25
15	0.81442	-1.0225	0.1251	8.13	50	0.91391	0.3160	0.3763	9.85
16	1.37862	-1.4847	0.1522	9.70	51	0.95128	0.1438	0.3062	4.64
17	0.68329	0.3924	0.1435	1.77	52	0.79556	0.6144	0.2229	8.39
18	0.87052	-0.9081	0.1420	7.15	53	1.02429	0.4943	0.1781	9.79
20	0.84486	-0.7103	0.0566	26.36	54	0.48082	-1.1072	0.0776	10.10
22	0.80066	-1.7258	0.0901	18.37	55	0.54307	1.1679	0.2760	24.37
23	0.75862	-1.8504	0.0681	10.33	98	0.72336	-0.0502	0.1721	7.02
24	0.74432	-2.3041	0.2000	14.50	99	0.82394	-0.4340	0.1898	10.39
25	0.46454	-0.5529	0.2000	73.40	100	1.03042	-2.2101	0.2000	14.06
26	0.97631	-0.9038	0.1339	7.16	101	0.59387	-1.7816	0.2000	29.11
27	0.47685	-0.6436	0.1778	95.47	103	0.28872	0.5343	0.1490	7.13
29	0.76618	-0.6882	0.1579	8.26	105	0.77602	-0.0214	0.0974	3.34
30	0.77767	-1.8975	0.1279	12.16	106	0.78531	2.6019	0.2341	9.14
31	0.43342	-0.7951	0.2000	18.15	107	0.53935	0.4835	0.3179	39.28
32	0.54467	-0.1765	0.2536	1.66	108	0.60262	-1.0873	0.0796	30.48
33	1.36963	-0.9404	0.2349	6.02	111	0.75051	-1.3137	0.1093	2.40
34	0.99975	-0.7893	0.1586	4.53	112	1.21353	0.1912	0.2628	10.30
35	0.87348	-1.3972	0.1609	4.46	113	1.42243	-0.5993	0.2025	8.46
36	0.83162	-0.9641	0.1161	7.58	114	1.19073	0.4043	0.3704	15.74
37	1.31449	-1.2362	0.2266	3.20	115	0.97736	-1.9028	0.0925	8.89

**N=63063 M1=55.6343 M2=633.1617 Critical Z=168.17**

**Table 103. Item Parameter and Fit Summary, Constructed-Response Items, Grade 6 Reading**

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		0.73692	0.2620	0.4250			43.45
6		0.58450	-1.1389	0.7089	0.3588		45.61
12		0.59759	-0.4544	0.6202	0.2939		55.46
19		0.86651	-0.3766	0.3305	1.7441		95.15
21		0.88179	-0.9235	0.9098	2.3873		24.71
28		1.04411	-0.3981	-0.1947	2.6599		19.04
40		1.15603	0.5767	1.9964			49.00
45		0.95677	-1.4786	-0.9336			15.02
46		1.15017	-0.1791	2.3050	4.2723		6.33
49		0.73959	0.6285	0.7496			61.13
102		0.64727	1.1843	0.9880	2.0117		45.22
104		0.93861	-1.1335	1.9753			51.05
109		1.09798	0.1897	0.7883			28.95
110		0.88733	-1.5270	1.6013			29.85

**N=63063 M1=55.6343 M2=633.1617 Critical Z=168.17**

**Table 104. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 6 Writing**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
56	1.24215	0.0778	0.3158	13.55	77	0.55939	-0.2992	0.1416	-0.13
57	1.57377	-1.4630	0.2557	33.34	78	1.09550	0.0853	0.3842	23.24
58	0.91381	-1.4238	0.1525	6.03	79	0.81821	-0.6471	0.1546	2.48
59	1.28564	1.2101	0.3968	15.68	80	0.31821	-0.9926	0.2000	21.75
60	0.84375	1.0721	0.2479	16.09	81	0.94085	0.0379	0.2027	10.37
61	1.31424	-1.4793	0.0995	33.61	82	0.88629	-0.4983	0.1556	25.79
62	1.22710	-1.8380	0.2040	6.66	83	0.77784	1.0596	0.2058	11.55
63	0.96635	-1.7496	0.2000	7.45	84	0.58082	-0.1203	0.2098	98.34
64	0.47510	-0.4689	0.2098	35.48	85	0.32865	-0.5743	0.1245	3.41
65	0.58259	0.2705	0.1484	0.88	86	1.47891	-1.3092	0.1509	135.68
66	1.04753	-0.9741	0.3150	13.28	87	0.68540	0.0262	0.2236	7.68
67	0.82117	0.7282	0.2168	4.79	88	0.99274	-0.2647	0.1785	13.43
68	0.42043	-0.1751	0.2000	81.67	89	0.68558	0.1400	0.2935	10.75
69	0.53295	1.2255	0.2974	1.42	90	1.32280	-0.6787	0.2915	21.00
70	0.98805	1.0637	0.2910	6.90	91	0.81356	0.8593	0.3824	11.91
71	1.39286	-1.4714	0.0876	105.96	92	1.51289	-1.0846	0.2073	22.67
72	1.32626	-0.1612	0.4028	39.52	93	0.66292	-0.0657	0.0769	97.03
74	1.11266	-0.7778	0.2107	6.76	94	0.79063	0.7043	0.1658	16.67
75	1.80261	-1.5123	0.1945	90.21	95	1.65076	-0.4879	0.2421	36.87
76	0.94074	0.2994	0.2518	9.08	96	0.40682	0.7330	0.2000	28.86

**N=63062 M1=52.3897 M2=526.0200 Critical Z=168.17**

**Table 105. Item Parameter and Fit Summary, Constructed-Response Items, Grade 6 Writing**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		1.33696	-6.0117				4.57
2	A	1.19676	2.0340				15.67
2	B	0.61449	-0.9258				92.93
2	C	1.31045	-1.8202				42.24
2	D	0.85063	0.3868				20.97
2	E	1.51524	-0.6859				13.70
2	F	0.69897	2.5907				3.79
3	A	1.10386	-2.5016	-4.1432	-1.0711	1.3706	347.06
3	B	1.21006	-5.5443	-3.5740	-0.9289	1.5254	29.46
3	C	1.40452	-4.7035	-3.5231			16.29
73		0.79182	-1.9385	-2.8483	-0.7921	1.5245	166.82
97		0.69745	-1.0570	-2.3147	0.1951	1.9782	346.38
116		1.12693	-3.2612	-2.0642	0.8933	2.8528	78.27

**N=63062 M1=52.3897 M2=526.0200 Critical Z=168.17**

**Table 106. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 6 Mathematics**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	0.45415	0.2687	0.1525	6.13	31	0.83251	-1.3786	0.2477	10.72
2	0.80562	-1.9853	0.1465	44.19	33	0.93364	-0.4015	0.2107	5.30
3	0.66510	-1.3968	0.1465	40.47	34	1.24043	0.9548	0.1576	10.18
5	1.13146	-1.0670	0.2528	1.96	35	0.90886	-1.5377	0.0415	7.15
6	1.28980	0.7019	0.4221	58.49	36	1.33757	0.6670	0.1338	10.44
7	0.77812	-1.3754	0.2566	6.84	37	1.00627	0.2585	0.1134	9.79
9	0.87426	0.6087	0.2401	8.73	39	0.94678	-0.9427	0.0935	4.81
10	1.40719	0.9051	0.0610	24.36	41	0.52305	-1.3769	0.1465	24.89
12	0.63908	-0.6029	0.0409	28.58	42	0.80763	-1.4824	0.0533	5.92
13	1.23667	-0.5486	0.1647	4.56	43	1.43160	0.6552	0.1392	22.66
15	0.65066	-1.4355	0.1078	0.34	44	0.62467	-0.5333	0.0529	8.56
16	0.96782	-0.2935	0.1917	1.30	45	0.99881	0.8115	0.2736	8.73
17	1.20805	0.5830	0.1673	5.85	47	0.90729	-0.6502	0.0517	4.76
18	1.24469	-0.1417	0.0488	5.06	48	1.04489	0.0197	0.0810	2.47
19	1.95068	1.2533	0.1070	231.07	49	0.61838	-1.0166	0.0707	2.62
21	0.73091	1.1223	0.2552	9.62	50	0.70076	-1.7754	0.0616	4.88
22	0.56789	-0.5683	0.1465	83.11	51	0.80717	-0.0581	0.1688	3.32
24	1.29771	-1.2612	0.1827	15.91	53	1.11848	0.2124	0.2120	11.19
25	1.56471	0.6472	0.2015	133.67	55	1.70356	0.6393	0.2683	114.26
26	0.59155	-0.8539	0.1696	3.57	56	1.54810	0.4358	0.3889	19.67
27	1.06161	0.2367	0.1604	8.67	58	1.00780	-0.3000	0.2098	10.87
28	0.59133	-1.3852	0.2000	15.67	59	1.79236	1.0374	0.1091	123.27
30	0.96933	1.2233	0.1134	30.72					

**N=63393 M1=67.9443 M2=547.7039 Critical Z=169.05**

**Table 107. Item Parameter and Fit Summary, Constructed-Response Items, Grade 6 Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		1.24024	-0.5975	1.8166			102.11
8		1.12764	-1.0574	-0.4771	1.3251		234.82
11		0.80770	1.0944	-1.5471			11.68
14		1.03955	0.4160	0.2543	0.7994		21.74
20		1.19059	-2.1091	-1.4130	-0.8675	2.3461	107.39
23		1.00610	-0.5342	-1.5335			6.93
29		1.30568	0.7118	2.0894	2.4610		27.12
32		0.80884	-1.3586	-1.4507			16.66
38		1.67723	-0.9887	-0.3169	1.5960		70.97
40		1.37406	-2.6408	0.8106	3.3759	2.9264	62.02
46		0.73838	0.3356	-1.1713			162.54
52		1.34351	0.3083	-0.2654	0.5873		110.71
54		1.12574	0.0829	-1.1947			18.90
57		0.98414	-1.8046	-0.9174	-0.4293		26.52
60		1.44052	-2.8723	-1.0771	-0.2420	1.0357	64.84

**N=63393 M1=67.9443 M2=547.7039 Critical Z=169.05**

**Table 108. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 7 Reading**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
4	0.66227	-1.6335	0.0971	9.90	40	0.77422	-0.7238	0.2222	2.30
6	0.63521	-1.5364	0.1743	63.32	41	0.78102	-1.3620	0.2000	9.70
8	0.70429	-2.5366	0.1030	23.50	42	0.91526	-1.2525	0.1173	18.40
9	0.64566	-2.4900	0.2000	7.08	43	0.38115	-1.7494	0.2000	81.15
10	0.59034	-1.2644	0.2000	44.73	45	0.72055	-1.1972	0.1743	175.41
11	0.76838	-2.1818	0.0663	4.08	48	1.26643	-1.2453	0.3293	5.92
14	0.48037	-1.1292	0.1400	0.04	49	0.28407	-0.7792	0.2000	138.08
15	1.07035	-1.8913	0.2000	5.15	50	0.46586	-1.7137	0.0906	6.17
16	0.44494	-0.8316	0.2000	57.95	51	1.29308	-1.4599	0.2391	3.38
17	0.80980	2.2780	0.3103	17.46	52	0.95505	-1.6066	0.2000	2.18
18	1.04882	-0.3848	0.1788	12.94	96	0.79153	-1.1968	0.1970	9.85
19	0.68349	-0.1048	0.3398	3.23	97	0.43249	-2.3277	0.2000	8.09
20	0.78704	-0.7752	0.2236	11.45	98	0.52185	0.1398	0.2000	2.16
21	1.23695	-0.5237	0.2773	11.47	99	0.64055	0.7547	0.2369	3.02
22	0.40880	-0.0963	0.2000	40.02	100	0.39056	-0.3145	0.2000	27.65
23	0.59720	-0.7896	0.2000	16.43	101	1.15627	-0.5475	0.2398	11.11
25	0.78228	0.9620	0.1697	11.79	102	0.64849	1.0033	0.2914	8.57
26	1.25845	-1.1410	0.2798	7.01	103	0.35932	0.7308	0.2000	13.09
27	0.43515	-0.3897	0.1743	45.42	105	0.93077	-0.4419	0.1201	14.57
28	0.56966	-1.6262	0.1028	6.42	106	0.70945	2.1345	0.2495	3.69
29	0.60844	-1.0685	0.2000	4.48	107	0.57938	0.0452	0.3455	10.80
30	0.55754	-2.0347	0.2000	7.43	108	0.65562	-1.5112	0.1009	39.75
31	0.49335	-1.2598	0.1743	5.80	109	0.86634	-0.9922	0.1478	2.77
32	0.69836	-0.4541	0.2014	3.65	110	0.47539	-0.1062	0.0376	5.40
34	0.95020	-2.3209	0.0628	12.93	111	0.37468	-1.0792	0.2000	11.97
36	1.15968	-1.3120	0.2122	7.95	112	0.37128	-0.9014	0.2000	96.57
37	0.78098	-0.2736	0.3071	22.70	113	1.01177	-0.3857	0.1114	9.69
38	0.64234	-1.8041	0.1743	21.23	114	0.67518	-0.2789	0.1954	7.08

**N=62694 M1=54.1447 M2=652.5233 Critical Z=167.18**



**Table 109. Item Parameter and Fit Summary, Constructed-Response Items, Grade 7 Reading**

Item	Part	f	g1	g2	g3	g4	Fit-Z
5		0.63634	-1.0630	0.0078	1.2243		30.78
7		0.72816	-1.3425	0.8321	2.5966		59.20
12		0.73357	-0.1500	1.2438			29.20
13		0.90822	-0.3709	-1.4580			56.05
24		0.97854	-1.7592	1.1233	1.9255	2.5244	62.94
33		0.72918	-1.3881	-0.9855	-0.7223		31.00
35		1.26104	-1.0525	0.5522			96.30
39		1.07001	-0.9642	1.2993	1.9701		40.61
44		0.75652	-0.7980	1.8560			32.92
46		1.12924	-1.3541	2.1439	2.0095		172.46
47		0.75900	-1.9615	0.4845			139.44
53		0.83674	-0.3959	-1.0860			15.33
104		0.91561	-1.4579	2.1018			25.65
115		0.71703	0.0700	2.0992			88.76

**N=62694 M1=54.1447 M2=652.5233 Critical Z=167.18**

**Table 110. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 7 Writing**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
54	0.26024	-0.3660	0.2000	62.62	75	1.21892	2.1124	0.2095	39.54
55	0.55969	1.2250	0.3079	4.14	76	0.32471	1.6007	0.2000	81.45
56	0.53880	-0.8477	0.2000	8.01	77	0.49212	-0.2256	0.3929	43.26
57	0.78447	0.0070	0.1433	2.64	78	1.75595	-1.4755	0.1697	35.78
58	1.11551	-1.4870	0.2368	4.81	79	1.89124	-1.4367	0.2887	25.66
59	0.76747	-1.2081	0.1269	-0.25	80	0.59620	-0.6972	0.0561	11.54
60	0.81967	-0.9474	0.1169	0.40	81	0.73824	-0.5913	0.1875	63.99
61	0.82232	-1.2455	0.1286	4.65	82	0.96882	-0.8718	0.1252	25.31
62	0.99182	-0.9748	0.2440	1.81	83	1.29517	-0.8603	0.1868	6.10
63	0.50703	-1.0246	0.4892	51.93	84	0.61569	0.0885	0.1034	37.87
64	0.54052	-0.1609	0.1214	4.28	85	1.11617	-0.9430	0.2400	3.86
65	0.58501	0.2934	0.2356	12.55	86	0.80577	-0.8448	0.1334	27.75
66	0.66346	-1.6611	0.1875	33.88	87	0.74487	-0.9899	0.1214	23.64
67	0.41613	-0.3221	0.2000	64.46	88	0.91878	-0.5025	0.1963	4.87
68	0.32089	-0.3175	0.2000	32.72	89	1.30978	-0.6819	0.2295	10.20
69	1.12301	-0.6915	0.1664	27.42	90	0.91778	1.6080	0.1797	33.12
71	0.54454	1.0815	0.2000	285.38	91	0.61049	0.4450	0.1916	34.32
72	0.86500	0.7320	0.4319	8.96	92	1.09946	-0.6740	0.2449	10.67
73	0.84245	-0.9366	0.0583	14.84	93	1.76518	-0.4774	0.1898	38.01
74	1.00024	0.0741	0.2020	25.54	94	0.53238	-0.3360	0.0541	68.69

**N=62668 M1=61.2880 M2=560.6323 Critical Z=167.11**

**Table 111. Item Parameter and Fit Summary, Constructed-Response Items, Grade 7 Writing**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		1.08618	-5.3389				1.55
2	A	1.05418	-0.8562				3.03
2	B	0.72224	0.2836				11.65
2	C	0.98156	0.6600				70.29
2	D	0.95690	-2.2585				91.06
2	E	0.39070	-0.4114				79.27
2	F	1.13600	-0.8557				0.50
3	A	0.71851	-0.3230	-2.2232	0.2490	1.1194	333.36
3	B	0.98486	-4.9572	-2.9917	0.1677	1.3495	119.58
3	C	1.35077	-5.4791	-3.2625			18.19
70		0.91874	-2.7607	-2.8593	0.4726	2.8062	140.69
95		0.80510	-1.5318	-2.4038	0.1019	2.1153	318.33
116		0.74323	-1.7548	-1.6617	0.1707	1.1550	144.16

**N=62668 M1=61.2880 M2=560.6323 Critical Z=167.11**

**Table 112. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 7 Mathematics**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	0.77727	0.8062	0.2578	31.31	32	1.46598	0.4598	0.3010	18.43
2	0.58388	-2.1335	0.2000	11.30	33	1.00213	0.4187	0.1666	5.30
4	1.33367	0.2185	0.1162	7.29	34	1.70042	2.1028	0.1231	129.61
5	0.83882	0.4756	0.2397	0.30	36	1.16701	-0.5800	0.2487	3.84
7	0.82462	-0.8587	0.1936	2.16	37	1.04300	1.8730	0.3795	16.41
8	0.91563	1.2888	0.2707	4.13	38	1.79348	0.7240	0.1237	38.50
9	1.24352	1.4603	0.1247	11.11	39	0.80409	1.0521	0.2114	1.76
10	0.89963	0.0561	0.2749	30.55	41	0.69176	1.3823	0.1087	0.99
12	0.85971	1.7009	0.1487	32.70	42	1.00447	1.0131	0.1691	38.75
13	0.72192	-0.0723	0.1159	0.53	44	0.73071	1.8359	0.3518	-0.97
14	1.46155	1.5173	0.2159	124.79	45	0.76584	-1.5469	0.2000	23.48
15	0.48637	0.7579	0.1478	18.92	47	1.20624	0.0973	0.2232	13.96
18	0.91563	-0.1484	0.2108	9.79	48	0.98872	-1.1588	0.0412	13.83
19	1.14808	0.8741	0.1365	23.15	50	0.79311	0.8172	0.2681	0.72
21	0.95517	0.8548	0.2624	0.57	51	0.52365	-0.1761	0.2825	9.63
22	0.40879	0.5490	0.0957	27.70	52	1.69507	1.5034	0.3331	11.94
24	0.82535	0.6111	0.0738	5.53	53	0.94108	-0.0830	0.1576	41.95
25	1.07736	1.9579	0.2787	1.87	55	0.96539	0.1287	0.1413	11.93
27	1.47268	0.5516	0.0724	39.97	56	0.77128	-1.3000	0.0646	8.60
28	1.08438	1.0239	0.2060	10.51	57	0.83129	1.2805	0.1196	8.30
29	0.64146	1.4545	0.2246	4.95	58	1.12988	-0.0545	0.2101	14.49
31	0.96648	-0.0655	0.2002	8.18	59	0.61886	2.0066	0.2307	16.28

**N=63158 M1=70.3369 M2=565.1027 Critical Z=168.42**

**Table 113. Item Parameter and Fit Summary, Constructed-Response Items, Grade 7 Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
3		0.88455	2.4260	-1.7996			26.45
6		0.82612	-0.4112	0.9986	3.0438		247.51
11		1.63123	0.1030	4.0146			165.56
17		1.38670	0.5729	2.0249	2.5123		20.33
20		0.89996	0.6403	0.2845	1.0425	1.6794	93.33
23		1.25205	2.0577	0.3090			43.51
26		0.57646	-1.3174	-0.7282	-1.2867		131.44
30		0.72395	2.3669	-1.3856			162.45
35		1.36271	0.1451	0.9939	2.8041		36.31
40		0.81127	0.3556	-0.6698	0.5416	0.5629	41.72
43		1.45776	1.7357	0.7270			82.99
46		1.46747	-2.6113	-2.2761	0.4291		45.55
49		1.57534	0.1973	0.3136			128.73
54		0.93866	-0.5701	0.7880	2.1479		43.00
60		1.43510	-3.1104	0.5912	3.2241	2.4599	66.08

**N=63158 M1=70.3369 M2=565.1027 Critical Z=168.42**

**Table 114. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 Reading**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
4	0.36599	1.4255	0.2000	9.92	38	0.62316	-0.6485	0.2000	4.53
6	0.60528	-0.4571	0.1037	31.02	39	0.63505	-0.0526	0.1708	2.74
7	0.65724	-0.8674	0.2000	6.57	40	0.86308	-1.6847	0.2000	4.24
9	1.25180	1.6237	0.1731	30.34	41	1.00609	-0.1578	0.1987	4.27
10	1.11384	-1.3409	0.2738	2.26	45	1.28022	-1.3764	0.3635	7.07
11	1.05936	-1.9108	0.0876	19.46	47	0.66210	-1.2237	0.2000	297.22
12	0.38348	-2.0000	0.2000	122.49	49	0.37729	-1.7425	0.2000	128.74
13	0.33843	-1.5063	0.2000	6.09	50	1.16246	0.7680	0.2536	41.84
14	0.91698	-0.9698	0.2665	14.44	51	1.41201	0.2846	0.1797	20.33
15	0.91079	-0.7463	0.1672	1.68	52	0.82402	1.5660	0.1859	28.16
16	0.77330	-1.5512	0.0815	8.32	53	1.27552	-0.5297	0.2553	6.14
17	0.70983	0.9249	0.1141	22.44	55	0.40882	0.0604	0.2000	231.81
18	0.54094	-1.3700	0.2000	115.10	56	0.62331	-0.2208	0.2568	6.74
21	0.71422	-1.0813	0.2207	3.00	99	0.58169	-0.1880	0.0436	4.60
22	1.28327	-1.6030	0.1015	5.28	101	0.35645	-1.2923	0.2000	20.37
23	0.96122	-0.6060	0.2262	4.56	102	0.75293	0.7624	0.2435	22.55
24	0.76985	-0.1490	0.2530	1.33	103	1.03461	-1.0834	0.3202	1.96
25	1.27493	1.0392	0.2695	35.76	104	0.76472	0.7238	0.4189	11.41
27	0.98611	-0.7535	0.1296	4.26	105	0.66466	-1.2651	0.2000	30.82
28	0.93784	0.4393	0.2540	5.37	106	0.53347	0.2831	0.1768	1.61
29	1.05813	0.4554	0.2090	9.13	107	0.67755	1.1923	0.3158	5.75
31	1.33853	-0.5893	0.3431	10.80	108	0.49496	0.1072	0.2212	5.89
32	0.73301	-0.6423	0.2977	1.22	111	0.30713	2.4043	0.0744	6.72
33	0.97415	-0.5519	0.1316	17.55	112	0.38541	-0.6497	0.2000	34.21
34	0.85844	-0.0631	0.2135	5.32	113	0.16985	-0.4878	0.2000	68.92
35	0.48704	-2.6732	0.2000	20.65	114	0.70149	-1.0967	0.1194	-0.14
36	0.45238	-0.5544	0.0912	0.48	115	1.00939	0.3595	0.2565	5.79
37	0.59216	-2.3056	0.2000	16.65					

**N=61942 M1=53.2093 M2=654.7574 Critical Z=165.18**

**Table 115. Item Parameter and Fit Summary, Constructed-Response Items, Grade 8 Reading**

Item	Part	f	g1	g2	g3	g4	Fit-Z
5		0.81954	-0.3693	-0.1486			45.56
8		0.64244	-1.6711	-1.9869	-1.2269		17.08
19		1.08024	-1.5374	-0.7559			54.43
20		0.70996	-1.4649	0.4363	-0.5542		34.57
26		0.70595	-1.1703	0.6590	1.2202		119.58
30		1.08455	-0.7637	1.0195	0.6647		190.61
42		1.03303	1.6130	-0.8890			65.72
44		0.62491	-0.8634	1.4407			60.70
46		0.99679	-1.0730	0.2320	1.9422		180.27
48		0.80139	-1.6029	0.1267			84.54
54		0.99536	-1.4300	-0.8028	0.6445		131.32
100		0.47391	-0.4739	1.2659	1.1839		43.93
109		0.61038	0.2252	0.4835			7.24
110		0.70286	-0.2570	0.3907			66.99

**N=61942 M1=53.2093 M2=654.7574 Critical Z=165.18**

**Table 116. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 Writing**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
57	0.55872	-2.3237	0.2000	20.71	78	0.96843	0.0361	0.2819	6.22
58	0.51691	0.5999	0.2979	4.80	79	1.19549	-1.2911	0.2170	4.71
59	0.24563	1.2748	0.2000	69.69	80	0.84723	-0.9513	0.1986	18.32
60	0.70232	-2.4067	0.1885	20.44	81	0.85741	-1.3751	0.2000	0.85
61	0.42285	0.4886	0.2000	146.25	82	0.76088	0.3883	0.2201	2.91
62	0.52343	-1.8880	0.2000	10.52	83	0.95948	0.3937	0.2571	10.43
63	0.92775	-0.0037	0.2447	5.34	84	0.88125	-0.1682	0.2843	5.92
64	0.51123	0.9354	0.2575	1.98	85	0.86434	-1.1248	0.1157	8.31
65	0.63894	-0.0321	0.2489	1.72	86	0.62196	-0.0911	0.1816	3.17
66	0.52625	-1.0971	0.1085	3.46	87	1.11295	-0.5744	0.1680	7.94
67	0.61118	0.1845	0.0898	31.05	88	1.17235	-1.3253	0.1341	14.68
68	0.97519	-0.0839	0.1969	9.62	89	1.23661	-0.5220	0.1708	15.94
69	0.50699	-0.6640	0.1885	64.10	90	0.74824	1.2044	0.1888	34.95
70	0.77082	-0.9596	0.1829	7.87	91	0.55210	0.2397	0.1294	1.20
71	1.37703	-1.4275	0.2680	7.34	92	1.29712	-1.0850	0.2733	8.05
72	0.77455	-0.5998	0.2103	1.59	93	0.98455	-0.8625	0.1584	5.00
73	1.00097	1.7950	0.2178	31.17	94	1.63478	-1.0019	0.2699	18.55
74	0.62204	-1.4048	0.2000	0.56	95	0.94629	-0.6973	0.0806	80.25
76	1.26562	-2.0699	0.2158	31.69	96	0.72273	-0.7906	0.1559	1.98
77	0.75907	-2.1402	0.1885	56.80	97	0.63141	1.5208	0.3298	24.04

**N=61874 M1=60.2246 M2=568.5962 Critical Z=165.00**

**Table 117. Item Parameter and Fit Summary, Constructed-Response Items, Grade 8 Writing**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		1.14570	-5.1531				5.37
2	A	1.11823	-2.6291				1.82
2	B	0.89136	-0.5978				8.85
2	C	0.95477	1.6178				29.51
2	D	1.02682	-1.0880				23.20
2	E	1.02984	1.2081				11.04
2	F	1.07724	0.2122				10.19
3	A	1.21638	-3.6201	-3.4058	-0.6577	1.5041	98.81
3	B	1.25853	-5.9826	-3.4257	-0.7203	1.5314	65.17
3	C	1.48724	-5.9188	-3.7767			10.76
75		0.89037	-2.4177	-2.9768	-0.0415	2.3015	133.37
98		0.88309	-1.9375	-2.0052	0.3570	1.8861	342.59
116		0.96071	-3.0179	-2.7259	0.0301	1.7239	77.78

**N=61874 M1=60.2246 M2=568.5962 Critical Z=165.00**

**Table 118. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 8 Mathematics**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	0.66111	0.8484	0.1613	2.93	30	1.43985	1.3371	0.1790	47.04
2	0.98887	1.0027	0.1156	42.62	31	1.30005	1.0060	0.2898	11.61
3	0.59828	0.8450	0.2387	31.52	32	1.15292	0.9657	0.0854	18.37
5	0.54667	0.2770	0.1630	1.77	33	1.06190	0.7354	0.0776	18.01
6	0.70870	-0.2879	0.0330	4.58	35	0.53087	-0.4271	0.1860	6.77
8	1.21655	0.4330	0.0817	18.59	36	1.21490	1.2315	0.3112	4.20
9	0.74152	0.5440	0.0642	20.93	38	0.92553	0.2625	0.0503	5.08
11	0.27034	1.8675	0.2000	68.66	39	0.93156	0.5734	0.0901	9.24
12	1.44002	0.3590	0.0805	21.97	41	1.23090	1.2647	0.2780	5.36
13	1.18286	0.5990	0.2187	7.75	43	1.42748	0.5633	0.0989	12.87
15	1.22546	0.1353	0.3016	22.63	44	1.43652	0.2387	0.1217	13.87
16	1.44346	0.9882	0.2130	19.59	46	1.10946	0.7243	0.2494	26.02
17	0.43086	-1.1542	0.1823	17.08	47	0.97989	0.2299	0.2374	3.13
18	0.58966	1.3608	0.1026	15.62	49	1.44729	0.7119	0.3056	29.83
19	0.73382	-1.5074	0.2000	11.04	50	1.12610	0.7563	0.1852	5.96
21	0.82069	0.8482	0.2159	7.13	51	1.41680	1.9647	0.3472	9.68
22	1.03445	-0.2345	0.0910	1.03	52	0.80265	-0.1522	0.1984	1.58
23	0.45987	-0.8413	0.2000	15.66	54	0.82695	0.4315	0.2820	2.78
25	0.94333	0.1320	0.0994	18.03	55	0.73163	-0.3123	0.1128	0.00
26	1.19976	-0.3881	0.4051	3.15	56	1.34518	0.7147	0.1544	114.89
28	0.58514	0.9395	0.1969	13.42	58	0.98092	0.8285	0.3306	9.17
29	0.71463	0.5619	0.2944	18.79					

**N=61962 M1=62.2210 M2=580.0601 Critical Z=165.23**



**Table 119. Item Parameter and Fit Summary, Constructed-Response Items, Grade 8 Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		1.24455	0.8956	0.0913			78.68
7		1.16713	-1.3496	-0.5840	1.9882		36.61
10		0.94242	0.0890	-0.6328			56.35
14		0.77983	-0.0817	-0.6856	1.6458		35.58
20		1.23078	0.5674	0.3543	0.7830	2.2495	82.07
24		1.47736	-0.1979	3.5553			145.17
27		1.35146	-2.7935	-2.6167	0.0621		52.06
34		1.36319	-0.0173	0.8709			98.35
37		1.29767	-0.0635	-0.0769	3.2094		128.09
40		1.26680	0.2398	0.7514	2.5020	1.9373	58.40
45		1.35945	-2.0006	4.2649	2.7797		69.92
48		1.54294	1.1794	1.7657			15.74
53		1.13498	-2.2032	1.0856	1.8918		257.04
57		1.92110	1.5907	3.3191			22.83
60		0.99130	-2.2148	0.0994	1.0109	1.2196	91.35

**N=61962 M1=62.2210 M2=580.0601 Critical Z=165.23**

**Table 120. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 9 Reading**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
4	0.34323	0.9106	0.2000	1.57	39	0.36850	-0.0727	0.2000	43.76
6	0.63145	-0.6338	0.1796	65.24	41	0.65063	-0.7062	0.0315	4.12
7	0.65592	-1.4008	0.1098	3.10	42	0.51359	0.8705	0.1748	16.63
9	1.13386	1.3660	0.1708	34.44	43	0.78176	-0.5236	0.2594	0.35
10	0.48341	-0.0846	0.1796	32.10	45	0.48101	0.6558	0.3285	0.86
12	0.81117	-1.0393	0.2136	0.54	46	0.56164	0.6096	0.2142	40.97
13	1.34384	-1.6894	0.2279	7.57	47	0.38030	-1.5039	0.2000	35.96
14	0.70828	0.2172	0.2455	8.31	48	0.84533	0.2008	0.3432	38.65
15	0.97273	-1.3486	0.2775	6.92	49	0.81458	-0.3644	0.2300	1.63
16	0.77755	1.2757	0.1410	0.76	50	0.98815	-0.4424	0.2578	3.36
17	0.90639	0.1828	0.2759	8.47	51	0.87205	-0.2450	0.2056	10.59
18	0.78903	0.5974	0.2073	40.22	52	0.43572	-0.6894	0.1796	17.50
20	0.82528	-0.2486	0.2748	8.47	95	0.39499	-0.8283	0.2000	68.46
21	0.77920	1.0347	0.0876	14.72	97	0.81469	-2.1781	0.1105	3.49
23	0.58577	0.1327	0.0615	11.70	98	0.60106	-0.4310	0.2000	28.04
24	0.97932	-1.1767	0.1631	0.39	100	1.25832	-2.8189	0.2000	47.02
25	0.59049	1.7566	0.3102	2.91	101	1.31088	-2.7529	0.0818	37.19
27	1.02194	-2.0859	0.2000	25.03	102	1.02128	0.4523	0.2637	60.63
28	0.55894	-1.8216	0.2000	20.66	103	1.40144	-0.0283	0.2159	18.95
29	0.85594	0.2122	0.2637	2.25	104	0.64437	1.3200	0.1707	34.83
30	0.78868	-1.9910	0.1796	47.41	105	1.31780	-0.7681	0.3065	4.64
31	0.47142	-0.1127	0.1507	4.41	107	0.29478	0.1209	0.2000	313.55
32	0.53574	-1.9908	0.2000	21.06	108	0.71833	-0.7004	0.2740	21.48
33	1.06352	-1.4637	0.2582	6.03	109	0.60006	-0.8910	0.1796	61.36
34	0.73727	0.2983	0.1427	4.45	110	0.45307	-0.1176	0.0795	1.23
35	0.93460	-1.1234	0.2077	4.07	111	0.55486	-0.5416	0.1134	1.44
36	0.67027	-0.1585	0.1617	4.96	113	0.80237	-1.7561	0.1472	8.67
38	0.98935	-0.8440	0.2051	4.35					

**N=61459 M1=42.6467 M2=667.4067 Critical Z=163.89**

**Table 121. Item Parameter and Fit Summary, Constructed-Response Items, Grade 9 Reading**

Item	Part	f	g1	g2	g3	g4	Fit-Z
5		0.89189	-0.7106	-0.4018			11.08
8		0.61338	-1.5093	-2.0813	-1.2440		35.08
11		0.59307	0.0792	-0.1922	0.1445		56.47
19		1.11045	2.4406	1.0140			14.85
22		0.88809	-0.1490	0.2806	1.5958		7.63
26		0.70595	-1.2502	-0.1842	1.2040		39.03
37		0.78776	-1.1787	-1.4129	-1.6104		9.30
40		0.82811	-0.6106	1.2727	0.2556		46.39
44		1.07660	0.3927	1.5939			53.21
96		1.04156	-1.0637	0.5214	2.1578		37.12
99		0.85472	-1.2625	-0.9792	0.5464		20.98
106		0.91510	-1.3461	-0.9938	0.4335		53.23
112		0.83148	-0.5897	-0.7860	2.2089		38.75
115		0.46716	-0.3238	0.3219	2.1621		68.85

**N=61459 M1=42.6467 M2=667.4067 Critical Z=163.89**

**Table 122. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 9 Writing**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
53	0.68558	0.1057	0.1801	97.18	73	0.57363	0.1398	0.3389	7.85
54	0.80146	-0.6003	0.2800	1.49	75	0.74271	-1.0177	0.2000	10.25
55	0.70110	-0.3667	0.0511	3.42	76	0.33306	0.8779	0.2000	49.35
56	0.45078	-1.2992	0.1179	0.97	77	0.46479	0.3669	0.0693	28.43
57	0.53289	-1.3416	0.1801	7.35	78	0.76098	-0.1877	0.2002	12.37
58	1.46740	-1.5216	0.2302	13.12	79	1.14143	-0.9752	0.1642	13.36
59	0.89117	-1.8840	0.2000	17.02	80	0.89680	-0.9301	0.2352	8.24
60	0.68443	-1.3234	0.1520	1.82	81	1.10236	-0.4972	0.2261	9.01
61	1.00481	-1.6009	0.1400	7.63	82	1.21905	-0.3585	0.1645	14.49
62	0.45390	-0.5092	0.0941	12.52	83	1.06742	-0.6585	0.1369	11.30
63	0.79801	-1.1932	0.1847	2.25	84	1.01049	-0.9718	0.1848	16.69
64	0.62279	-0.0819	0.2940	7.07	85	0.56829	1.6159	0.1430	51.69
65	0.75282	1.1050	0.1935	42.05	87	1.31025	-0.6198	0.1307	32.87
66	0.60709	0.0319	0.1640	3.86	88	1.97961	-1.1260	0.2879	24.15
67	1.84065	-1.0714	0.1854	13.70	89	1.53041	-0.6516	0.2685	14.59
68	1.59669	-1.3118	0.2740	14.08	90	1.25992	-0.3782	0.1895	24.27
69	0.91762	-0.8782	0.1517	4.22	91	0.98710	-0.8355	0.2742	4.09
70	1.32517	-1.1063	0.2520	3.68	92	0.90881	-0.2958	0.0492	50.40
71	0.61385	0.3292	0.2208	1.76	93	1.14302	-0.4531	0.2478	12.09

**N=61444 M1=67.7087 M2=576.8992 Critical Z=163.85**

**Table 123. Item Parameter and Fit Summary, Constructed-Response Items, Grade 9 Writing**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		1.08509	-4.8412				6.22
2	A	1.05191	-1.8045				1.19
2	B	1.25882	-0.8030				3.43
2	C	0.41134	-0.0168				28.84
2	D	0.85524	1.2801				16.46
2	E	1.21082	-0.9169				13.97
2	F	1.03150	-0.2872				9.27
3	A	1.28947	-3.5482	-4.2006	-0.9627	0.6044	106.15
3	B	1.33227	-5.4403	-4.1535	-0.9992	0.6439	68.76
3	C	1.71585	-5.7945	-5.2480			19.58
72		0.57301	-1.3921	-2.1833	-0.2665	1.3970	103.95
94		0.84654	-1.5977	-1.9218	0.5590	2.0604	363.65
116		0.86396	-1.8131	-2.5631	0.4452	1.9402	121.18

**N=61444 M1=67.7087 M2=576.8992 Critical Z=163.85**

**Table 124. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 9 Mathematics**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	1.35281	0.8688	0.2529	54.52	32	1.05048	0.8936	0.1365	10.98
2	1.88504	1.6241	0.1738	143.58	33	1.49660	1.2094	0.0978	39.70
3	0.87433	0.2456	0.2330	3.02	34	1.08953	0.5917	0.2647	3.86
5	0.87629	-0.1029	0.1405	8.04	35	0.86733	-0.3308	0.2468	7.48
6	0.87538	-1.1867	0.2005	47.35	37	0.64960	1.0147	0.1645	12.20
7	1.25291	1.2151	0.1040	4.49	38	1.36918	2.6605	0.2034	27.29
8	0.93034	0.4463	0.3126	2.70	39	0.52934	-0.8833	0.2005	42.79
10	1.28827	1.7076	0.3746	8.64	41	0.54162	-0.5868	0.0519	90.88
11	0.89591	0.7738	0.0914	6.83	42	0.74145	-0.2000	0.2950	5.19
12	1.00504	0.6223	0.1736	5.08	43	0.81704	1.3563	0.3999	1.77
13	1.61923	1.8188	0.4154	10.61	45	0.52223	-0.6619	0.2000	59.90
15	1.38665	0.9693	0.2843	13.23	46	1.81998	1.3442	0.1289	71.32
16	1.59468	0.8222	0.1356	63.93	47	0.37666	-0.1052	0.0731	63.64
18	1.11389	1.8334	0.2628	62.68	49	0.33054	-2.0065	0.2000	258.76
19	1.34963	1.5407	0.1629	3.31	50	0.98068	0.4526	0.4648	15.66
21	0.91278	0.6326	0.2508	1.00	52	0.65809	-0.1119	0.1016	23.10
22	0.67668	-0.1246	0.2539	16.28	53	1.04515	0.6939	0.1679	81.46
24	1.50836	1.4535	0.3619	13.84	54	1.56129	1.2846	0.1387	56.10
25	1.49594	1.6016	0.0946	40.84	55	1.20008	1.8136	0.3147	14.52
28	1.32168	0.5225	0.0936	7.43	57	2.35294	1.4888	0.2655	150.37
29	0.92616	0.6879	0.1146	60.87	58	0.63604	-1.8943	0.0920	54.97
31	1.89058	1.5711	0.2758	2.49	59	0.67085	1.8628	0.3556	8.83

**N=61842 M1=60.4417 M2=586.0604 Critical Z=164.91**

**Table 125. Item Parameter and Fit Summary, Constructed-Response Items, Grade 9 Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
4		2.09370	2.7140	4.7360			56.63
9		1.06321	0.5247	2.7082	0.2462		69.94
14		1.64671	1.4592	2.6131			24.64
17		1.40022	2.3430	1.8812	2.5144		27.69
20		0.70218	-1.1948	-0.5958	0.5101	1.7587	63.53
23		1.36987	1.2551	1.2193			82.33
26		1.61189	0.2601	2.4379			183.06
30		1.38263	1.8241	1.4585	2.9623		86.54
36		1.28899	-0.1734	-0.1172	2.3738		201.61
40		1.21549	1.8313	1.1134	1.6542	1.2463	22.93
44		0.83509	-0.3129	0.8484			205.13
48		1.28674	1.0939	0.5308	0.3183		114.22
51		0.82496	-0.5683	-0.5382			45.16
56		1.98595	0.5888	1.3277	3.1839		88.81
60		0.74503	0.2267	-0.4666	1.4265	0.1334	368.11

**N=61842 M1=60.4417 M2=586.0604 Critical Z=164.91**

**Table 126. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 Reading**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
4	0.79375	1.2336	0.1608	5.20	42	1.18639	-0.6762	0.2502	6.60
5	0.96817	0.0161	0.3410	10.66	43	1.13058	-1.0246	0.2759	2.75
6	0.69799	0.3818	0.2036	19.47	44	1.00322	-2.4856	0.2000	25.84
8	0.79420	-0.5202	0.3017	9.90	45	0.80091	-0.2976	0.1615	6.79
10	0.26966	-1.0801	0.0951	30.40	46	1.36753	0.0105	0.2559	14.11
12	0.97250	0.3535	0.2291	18.91	48	0.79836	-0.7464	0.0534	10.50
14	0.49226	0.4647	0.2355	2.59	49	1.30233	0.8278	0.2750	18.11
15	0.74837	-0.8797	0.3147	8.05	50	1.02654	-0.6370	0.4004	2.41
16	0.32848	-1.1304	0.2000	29.31	94	0.76460	-1.5660	0.0724	19.91
17	0.74300	-0.6977	0.1983	10.91	95	0.54923	0.8267	0.1903	9.63
18	0.42252	-0.6326	0.1195	30.07	96	0.52718	-1.1917	0.1742	29.02
19	0.76891	-0.2743	0.3072	2.40	98	0.67474	-1.6768	0.0642	21.19
20	0.44330	-0.0451	0.0486	3.91	99	0.73243	-1.7042	0.0515	3.34
23	0.58244	-1.7486	0.1742	10.88	100	0.41389	0.7924	0.2667	41.21
24	0.74370	-1.5326	0.0810	18.25	101	0.44090	-0.5548	0.1766	8.61
25	0.34905	-0.0010	0.2000	106.45	102	0.54793	-1.9993	0.1742	15.13
26	1.11933	-1.9773	0.2028	7.85	103	1.13041	-0.9719	0.2486	6.55
28	0.45835	-1.5727	0.0847	1.14	105	0.58452	-1.1362	0.2000	72.80
29	0.77875	-1.2022	0.1364	2.12	106	0.58459	-0.6249	0.2204	1.37
32	0.15817	2.1176	0.2000	105.60	107	0.80316	-2.0652	0.0620	11.39
33	0.30412	0.3063	0.2000	20.71	108	0.45732	-0.5496	0.0472	8.09
34	0.71047	-0.9620	0.1958	1.94	110	0.68714	-0.6950	0.1505	81.66
36	0.32988	0.4309	0.2000	52.80	111	0.58959	-0.8554	0.1742	112.89
37	0.61027	-0.4772	0.1154	26.14	112	1.01428	-0.0076	0.2327	8.46
39	1.17035	-1.0057	0.3483	6.89	113	0.44901	0.2068	0.3267	40.98
40	0.87554	0.0785	0.2799	2.92	114	0.32675	1.4874	0.1857	8.72
41	0.69315	-1.9130	0.0838	4.62	115	0.43733	-0.8060	0.0690	-0.14

**N=58818 M1=44.7111 M2=691.3419 Critical Z=156.85**

**Table 127. Item Parameter and Fit Summary, Constructed-Response Items, Grade 10 Reading**

Item	Part	f	g1	g2	g3	g4	Fit-Z
7		1.01216	2.2413	0.7789			16.76
9		0.96673	0.1154	1.0320			19.76
11		0.73607	-0.2996	0.3283	1.7929		3.12
13		0.78988	-1.3282	-1.3389	-0.1072	1.8888	51.53
21		0.86203	-0.0430	1.8957			19.06
27		0.44009	-0.0455	-0.2810	0.6919		212.96
30		0.52317	-1.8463	-0.1079	1.0541		245.07
31		0.65879	-0.2408	-1.0469	1.2585		43.28
35		0.92162	-1.5510	0.2720	0.8697		9.37
38		1.47508	-0.2588	1.6447	2.8549		29.70
47		0.75912	-0.3274	-1.3439	-0.4399		116.06
51		0.86794	-0.3149	1.5246	-0.4742		67.99
97		0.77542	0.3810	0.5386			58.72
104		0.83824	-0.8365	-1.0158	1.8057		38.65

**N=58818 M1=44.7111 M2=691.3419 Critical Z=156.85**



**Table 128. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 Writing**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
52	0.70484	-0.0864	0.1732	84.34	73	0.59358	0.6572	0.1345	79.93
53	0.71976	-0.4772	0.0610	2.39	74	0.37406	0.2648	0.2000	97.46
54	0.54372	-0.0835	0.1887	12.60	75	0.82706	-0.8719	0.1475	3.50
55	1.70701	-1.7771	0.2398	12.90	76	1.67853	-1.1943	0.1756	16.26
56	0.70466	-0.8877	0.2000	41.71	77	0.96720	-0.3277	0.1285	52.73
57	1.36396	-1.7565	0.1478	15.48	79	1.35393	-1.4188	0.1586	28.49
58	0.32537	-1.5003	0.2000	22.50	80	1.16706	-1.3691	0.1846	23.85
59	0.34746	0.1002	0.1158	18.93	81	1.05976	-0.7493	0.1763	10.25
60	0.99876	-1.3516	0.1671	10.07	82	1.79468	-1.3896	0.1985	45.86
61	0.86910	-0.3558	0.2853	13.52	83	1.17606	-0.6175	0.1837	8.60
62	1.07403	0.7579	0.2174	34.31	84	2.08201	-1.3559	0.2327	16.33
63	0.97055	-1.4791	0.1068	0.88	85	1.91190	-1.4880	0.2154	24.36
64	0.80550	0.4617	0.2824	10.29	86	1.07720	-1.2145	0.0668	17.11
65	1.29694	-0.9491	0.2596	7.50	87	0.41328	0.1732	0.2000	7.65
66	0.69871	-1.3922	0.2000	21.46	88	0.59249	1.6091	0.1751	51.73
67	0.28207	1.0784	0.2000	60.61	89	1.09093	-1.3018	0.2043	14.11
68	0.71477	-0.1721	0.0701	4.44	90	1.19020	-1.5999	0.1749	15.00
69	1.11913	0.0267	0.1876	14.92	91	1.38915	-1.2947	0.1513	24.45
70	1.41340	-1.0654	0.2400	13.11	92	0.53627	0.3377	0.0879	7.23
72	0.65108	2.0118	0.2447	85.16					

**N=58827 M1=72.9471 M2=581.2314 Critical Z=156.87**

**Table 129. Item Parameter and Fit Summary, Constructed-Response Items, Grade 10 Writing**

Item	Part	f	g1	g2	g3	g4	Fit-Z
1		1.08576	-4.7067				3.75
2	A	1.04217	-0.8608				42.62
2	B	0.29796	-0.5077				44.58
2	C	0.67351	-1.3460				4.43
2	D	0.54534	-1.2017				7.34
2	E	1.11398	0.5585				26.08
2	F	0.71679	-1.7583				16.60
3	A	1.26302	-3.1659	-4.4428	-1.0788	0.9629	316.19
3	B	1.30879	-5.0432	-4.1421	-1.0856	1.0138	73.55
3	C	1.54821	-5.1544	-4.9734			37.42
71		0.65883	-1.5487	-1.9927	-0.3307	1.2091	100.75
93		0.89344	-1.7021	-1.7969	0.1993	1.4435	170.23
116		0.86895	-2.0835	-2.2103	-0.1864	1.4956	72.08

**N=58827 M1=72.9471 M2=581.2314 Critical Z=156.87**

**Table 130. Item Parameter and Fit Summary, Multiple-Choice Items, Grade 10 Mathematics**

Item	a	b	c	Fit-Z	Item	a	b	c	Fit-Z
1	1.17458	1.1361	0.3271	15.81	31	0.59610	-0.1033	0.2861	7.47
3	1.04128	0.7085	0.3338	9.82	33	1.36485	1.3420	0.1700	16.94
4	1.50807	1.4721	0.2260	33.52	34	1.77113	1.2514	0.2218	131.82
5	0.88108	-0.0836	0.1830	6.84	35	1.45185	0.9117	0.1509	8.11
6	1.67562	0.4917	0.1792	8.31	37	1.25330	1.2827	0.3614	23.67
7	1.23378	1.2831	0.2000	659.06	38	0.58954	-0.4441	0.0739	13.92
9	1.26887	1.4473	0.3893	50.69	39	1.43161	-0.1106	0.1425	12.12
10	1.00191	0.4342	0.2905	0.42	41	1.70900	1.6035	0.1005	1.15
11	1.18835	0.3882	0.3270	1.22	43	0.62866	1.6033	0.2058	5.10
13	1.02084	1.1235	0.1476	3.47	44	1.47487	1.1032	0.2604	7.83
14	0.79425	-0.0788	0.2161	13.78	45	0.71117	1.3182	0.3342	4.18
15	1.22231	1.6846	0.1428	11.25	46	0.86317	1.1038	0.1945	7.92
16	1.55071	2.7270	0.0747	90.54	47	1.03926	0.6677	0.1716	69.76
18	0.74732	-0.2202	0.2142	121.50	48	1.57480	1.3361	0.1941	4.60
19	1.08991	0.4947	0.0375	8.63	50	0.34577	-1.9180	0.2000	213.13
21	1.31300	1.1044	0.1025	4.45	51	1.11951	0.3474	0.3424	7.44
22	0.42753	1.2522	0.4995	17.69	52	0.72067	-0.3161	0.3488	14.25
24	1.07018	-0.2866	0.3398	3.46	53	1.89191	1.1755	0.2202	84.67
25	1.45703	0.9623	0.2070	3.70	55	0.80817	0.4339	0.2239	2.54
26	0.89829	0.5986	0.2367	18.58	56	0.53205	0.4014	0.2142	124.79
27	1.28824	1.5383	0.3664	8.12	58	0.50449	0.8909	0.0818	11.10
29	0.62363	-1.1569	0.2000	17.03	59	0.67788	-0.9493	0.0573	30.97
30	1.37015	1.6146	0.2870	25.82					

**N=59137 M1=60.8270 M2=601.3182 Critical Z=157.70**

**Table 131. Item Parameter and Fit Summary, Constructed-Response Items, Grade 10 Mathematics**

Item	Part	f	g1	g2	g3	g4	Fit-Z
2		1.13743	0.2295	1.9000			40.83
8		1.30735	0.0854	2.7467	1.0060		122.90
12		1.53309	-0.3286	0.8855			96.28
17		1.09671	1.3650	1.4601	2.2416		64.70
20		1.08110	-1.7176	-1.3305	0.8461	1.6808	149.92
23		1.40114	0.1202	0.9692			168.35
28		1.39612	1.1718	0.8828	2.3521		93.51
32		0.82803	-1.3127	0.3072			90.32
36		0.96148	0.9769	2.5629	-0.7193		148.19
40		1.70685	0.3256	1.5498	2.2784	3.9112	46.39
42		1.42555	2.1206	-0.2972			69.03
49		1.27258	0.6304	1.1301	2.4549		146.75
54		0.60696	1.8796	-0.7747			36.86
57		1.36761	0.3933	1.1908	0.8044		104.78
60		1.09144	1.4126	-0.1211	0.3385	1.0090	68.27

**N=59137 M1=60.8270 M2=601.3182 Critical Z=157.70**

**Table 132. Correlations between the Reference and New Form Item Parameters for the 2014 TCAP Administration**

Content Area	Grade	Discrimination (a)	Difficulty (b)	Guessing (c)	$p$ -Value (p)
Reading	3	0.97	0.99	0.76	1.00
	4	0.90	1.00	0.82	0.99
	5	0.98	0.99	0.95	0.99
	6	0.98	0.99	0.67	0.99
	7	0.98	0.97	0.63	0.99
	8	0.97	1.00	0.85	0.99
	9	0.98	0.99	0.85	1.00
	10	0.99	0.99	0.81	0.98
Writing	3	0.98	0.99	0.44	1.00
	4	0.98	0.99	0.94	0.99
	5	0.99	0.99	0.92	1.00
	6	0.92	0.99	0.88	1.00
	7	0.98	0.93	0.61	0.99
	8	0.98	0.99	0.89	1.00
	9	0.98	0.99	0.79	0.99
	10	0.99	0.99	0.88	1.00
Mathematics	3	0.96	0.99	0.86	0.99
	4	0.96	0.99	0.88	0.98
	5	0.98	1.00	0.97	1.00
	6	0.99	1.00	0.97	0.99
	7	0.99	0.99	0.98	1.00
	8	0.97	1.00	1.00	0.99
	9	0.98	1.00	0.98	1.00
	10	0.96	0.98	0.77	1.00

**Table 133. Scaling Constants across Grades and Content Areas for Two Administrations**

Content Area	Grade	2013		2014	
		Multiplicative	Additive	Multiplicative	Additive
Reading	3	63.3	566.9	62.1	568.3
	4	52.2	592.3	50.8	591.2
	5	56.6	619.6	58.6	618.6
	6	53.0	637.4	55.6	633.2
	7	53.8	653.4	54.1	652.5
	8	49.9	659.0	53.2	654.8
	9	44.1	667.3	42.6	667.4
	10	46.7	693.6	44.7	691.3
Writing	3	43.4	464.4	43.3	464.7
	4	44.5	492.3	45.8	486.4
	5	48.9	507.3	50.4	503.3
	6	52.9	525.1	52.4	526.0
	7	62.2	560.4	61.3	560.6
	8	62.2	566.9	60.2	568.6
	9	68.3	571.3	67.7	576.9
	10	72.3	576.5	72.9	581.2
Mathematics	3	81.0	468.0	79.4	469.3
	4	69.2	499.3	69.7	496.8
	5	67.2	525.1	67.5	520.2
	6	67.5	549.0	67.9	547.7
	7	68.7	566.0	70.3	565.1
	8	62.4	579.0	62.2	580.1
	9	62.9	583.4	60.4	586.1
	10	61.9	604.5	60.8	601.3

**Table 134. TCAP Item and Anchor Count by Content Standard for Final Calibration  
Sample: Reading**

Grade	Content Standard	Item Set	Number Of Items	Percentage
3	CS 1	Anchor Set	16	100.0
		Total Test	40	100.0
	Total	Anchor Set	16	100.0
		Total Test	40	100.0
4	CS 1	Anchor Set	8	44.4
		Total Test	29	42.0
	CS 4	Anchor Set	4	22.2
		Total Test	13	18.8
	CS 5	Anchor Set	2	11.1
		Total Test	15	21.7
	CS 6	Anchor Set	4	22.2
		Total Test	12	17.4
	Total	Anchor Set	18	100.0
			Total Test	69
5	CS 1	Anchor Set	7	41.2
		Total Test	24	34.8
	CS 4	Anchor Set	4	23.5
		Total Test	17	24.6
	CS 5	Anchor Set	4	23.5
		Total Test	17	24.6
	CS 6	Anchor Set	2	11.8
		Total Test	11	15.9
	Total	Anchor Set	17	100.0
			Total Test	69
6	CS 1	Anchor Set	7	38.9
		Total Test	28	40.0
	CS 4	Anchor Set	4	22.2
		Total Test	12	17.1
	CS 5	Anchor Set	3	16.7
		Total Test	18	25.7
	CS 6	Anchor Set	4	22.2
		Total Test	12	17.1
	Total	Anchor Set	18	100.0
			Total Test	70

**Table 134. TCAP Item and Anchor Count by Content Standard for Final Calibration  
Sample: Reading (cont'd)**

Grade	Content Standard	Item Set	Number Of Items	Percentage
7	CS 1	Anchor Set	6	31.6
		Total Test	23	32.9
	CS 4	Anchor Set	5	26.3
		Total Test	15	21.4
	CS 5	Anchor Set	4	21.1
Total Test		19	27.1	
CS 6	Anchor Set	4	21.1	
	Total Test	13	18.6	
Total	Anchor Set	19	100.0	
	Total Test	70	100.0	
8	CS 1	Anchor Set	8	42.1
		Total Test	23	33.3
	CS 4	Anchor Set	4	21.1
		Total Test	15	21.7
	CS 5	Anchor Set	4	21.1
Total Test		16	23.2	
CS 6	Anchor Set	3	15.8	
	Total Test	15	21.7	
Total	Anchor Set	19	100.0	
	Total Test	69	100.0	
9	CS 1	Anchor Set	7	36.8
		Total Test	23	33.3
	CS 4	Anchor Set	4	21.1
		Total Test	15	21.7
	CS 5	Anchor Set	4	21.1
Total Test		17	24.6	
CS 6	Anchor Set	4	21.1	
	Total Test	14	20.3	
Total	Anchor Set	19	100.0	
	Total Test	69	100.0	

**Table 134. TCAP Item and Anchor Count by Content Standard for Final Calibration  
Sample: Reading (cont'd)**

Grade	Content Standard	Item Set	Number Of Items	Percentage
10	CS 1	Anchor Set	6	37.5
		Total Test	22	32.4
	CS 4	Anchor Set	4	25.0
		Total Test	17	25.0
	CS 5	Anchor Set	3	18.8
		Total Test	15	22.1
	CS 6	Anchor Set	3	18.8
		Total Test	14	20.6
	Total	Anchor Set	16	100.0
		Total Test	68	100.0



**Table 135. TCAP Item and Anchor Count by Content Standard for Final Calibration  
Sample: Writing**

Grade	Content Standard	Item Set	Number Of Items	Percentage
3	CS 2	Anchor Set	8	42.1
		Total Test	21	39.6
	CS 3	Anchor Set	11	57.9
		Total Test	32	60.4
	Total	Anchor Set	19	100.0
		Total Test	53	100.0
4	CS 2	Anchor Set	8	50.0
		Total Test	21	39.6
	CS 3	Anchor Set	8	50.0
		Total Test	32	60.4
	Total	Anchor Set	16	100.0
		Total Test	53	100.0
5	CS 2	Anchor Set	8	47.1
		Total Test	21	39.6
	CS 3	Anchor Set	9	52.9
		Total Test	32	60.4
	Total	Anchor Set	17	100.0
		Total Test	53	100.0
6	CS 2	Anchor Set	8	44.4
		Total Test	21	39.6
	CS 3	Anchor Set	10	55.6
		Total Test	32	60.4
	Total	Anchor Set	18	100.0
		Total Test	53	100.0
7	CS 2	Anchor Set	8	44.4
		Total Test	21	39.6
	CS 3	Anchor Set	10	55.6
		Total Test	32	60.4
	Total	Anchor Set	18	100.0
		Total Test	53	100.0
8	CS 2	Anchor Set	9	45.0
		Total Test	21	39.6
	CS 3	Anchor Set	11	55.0
		Total Test	32	60.4
	Total	Anchor Set	20	100.0
		Total Test	53	100.0

**Table 135. TCAP Item and Anchor Count by Content Standard for Final Calibration  
Sample: Writing (cont'd)**

Grade	Content Standard	Item Set	Number Of Items	Percentage
9	CS 2	Anchor Set	8	44.4
		Total Test	20	39.2
	CS 3	Anchor Set	10	55.6
		Total Test	31	60.8
	Total	Anchor Set	18	100.0
		Total Test	51	100.0
10	CS 2	Anchor Set	9	50.0
		Total Test	21	40.4
	CS 3	Anchor Set	9	50.0
		Total Test	31	59.6
	Total	Anchor Set	18	100.0
		Total Test	52	100.0

**Table 136. TCAP Item and Anchor Count by Content Standard for Final Calibration  
Sample: Mathematics**

Grade	Content Standard	Item Set	Number Of Items	Percentage
3	CS 1	Anchor Set	3	18.8
		Total Test	8	20.0
	CS 2/3	Anchor Set	4	25.0
		Total Test	11	27.5
	CS 4/5	Anchor Set	6	37.5
Total Test		14	35.0	
CS 6	Anchor Set	3	18.8	
	Total Test	7	17.5	
Total	Anchor Set	16	100.0	
	Total Test	40	100.0	
4	CS 1	Anchor Set	3	16.7
		Total Test	14	20.3
	CS 2	Anchor Set	3	16.7
		Total Test	9	13.0
	CS 3	Anchor Set	3	16.7
		Total Test	11	15.9
CS 4/5	Anchor Set	5	27.8	
	Total Test	21	30.4	
CS 6	Anchor Set	4	22.2	
	Total Test	14	20.3	
Total	Anchor Set	18	100.0	
	Total Test	69	100.0	
5	CS 1	Anchor Set	4	22.2
		Total Test	16	23.2
	CS 2	Anchor Set	4	22.2
		Total Test	12	17.4
	CS 3	Anchor Set	2	11.1
		Total Test	11	15.9
CS 4/5	Anchor Set	3	16.7	
	Total Test	14	20.3	
CS 6	Anchor Set	5	27.8	
	Total Test	16	23.2	
Total	Anchor Set	18	100.0	
	Total Test	69	100.0	

**Table 136. TCAP Item and Anchor Count by Content Standard for Final Calibration  
Sample: Mathematics (cont'd)**

Grade	Content Standard	Item Set	Number Of Items	Percentage
6	CS 1	Anchor Set	4	25.0
		Total Test	12	20.0
	CS 2	Anchor Set	2	12.5
		Total Test	10	16.7
	CS 3	Anchor Set	2	12.5
		Total Test	11	18.3
CS 4/5	Anchor Set	5	31.3	
	Total Test	16	26.7	
CS 6	Anchor Set	3	18.8	
	Total Test	11	18.3	
Total	Anchor Set	16	100.0	
	Total Test	60	100.0	
7	CS 1/6	Anchor Set	6	31.6
		Total Test	19	32.2
	CS 2	Anchor Set	4	21.1
		Total Test	11	18.6
	CS 3	Anchor Set	4	21.1
Total Test		12	20.3	
CS 4/5	Anchor Set	5	26.3	
	Total Test	17	28.8	
Total	Anchor Set	19	100.0	
	Total Test	59	100.0	
8	CS 1/6	Anchor Set	5	27.8
		Total Test	15	25.9
	CS 2	Anchor Set	4	22.2
		Total Test	14	24.1
	CS 3	Anchor Set	5	27.8
Total Test		12	20.7	
CS 4/5	Anchor Set	4	22.2	
	Total Test	17	29.3	
Total	Anchor Set	18	100.0	
	Total Test	58	100.0	

**Table 136. TCAP Item and Anchor Count by Content Standard for Final Calibration  
Sample: Mathematics (cont'd)**

Grade	Content Standard	Item Set	Number Of Items	Percentage
9	CS 1/6	Anchor Set	5	25.0
		Total Test	13	22.0
	CS 2	Anchor Set	5	25.0
		Total Test	17	28.8
	CS 3	Anchor Set	6	30.0
Total Test		15	25.4	
CS 4/5	Anchor Set	4	20.0	
	Total Test	14	23.7	
Total	Anchor Set	20	100.0	
	Total Test	59	100.0	
10	CS 1/6	Anchor Set	5	25.0
		Total Test	14	23.3
	CS 2	Anchor Set	5	25.0
		Total Test	18	30.0
	CS 3	Anchor Set	4	20.0
Total Test		14	23.3	
CS 4/5	Anchor Set	6	30.0	
	Total Test	14	23.3	
Total	Anchor Set	20	100.0	
	Total Test	60	100.0	

**Table 137. TCAP Item and Anchor Count by Content Standard for Final Calibration  
Sample: Reading and Writing Spanish**

Content	Grade	Content Standard	Item Set	Number Of Items	Percentage
Reading Spanish	3	CS 1	Anchor Set	18	100.0
			Total Test	40	100.0
		Total	Anchor Set	18	100.0
			Total Test	40	100.0
	4	CS 1	Anchor Set	7	38.9
			Total Test	31	44.3
		CS 4	Anchor Set	4	22.2
			Total Test	14	20.0
		CS 5	Anchor Set	4	22.2
			Total Test	13	18.6
	CS 6	Anchor Set	3	16.7	
Total Test		12	17.1		
Total	Anchor Set	18	100.0		
Total Test	70	100.0			
Writing Spanish	3	CS 2	Anchor Set	5	27.8
			Total Test	21	39.6
		CS 3	Anchor Set	13	72.2
	Total Test		32	60.4	
	Total	Anchor Set	18	100.0	
	Total Test	53	100.0		
	4	CS 2	Anchor Set	4	22.2
			Total Test	19	35.8
		CS 3	Anchor Set	14	77.8
Total Test	34		64.2		
Total	Anchor Set	18	100.0		
Total Test	53	100.0			

**Table 138. Scale Score Descriptive Statistics by Gender**

Content Area	Grade	Gender								Total			
		Female				Male				N	Mean	SD	Median
		N	Mean	SD	Median	N	Mean	SD	Median				
Reading	3	30956	564	77.2	570	32384	548	89.0	562	63345	556	83.8	566
	4	31431	595	56.7	602	32646	580	67.9	590	64131	587	63.1	596
	5	31832	621	65.5	629	32752	603	75.1	616	64586	612	71.2	623
	6	30967	636	60.7	643	32365	618	68.8	628	63335	627	65.6	635
	7	31107	651	60.2	656	31978	632	66.4	642	63091	641	64.1	649
	8	30252	660	56.1	664	31712	641	62.5	648	61966	650	60.2	656
	9	30183	667	46.0	670	31457	650	51.9	655	61645	658	49.9	662
	10	29020	692	49.4	696	29960	674	56.3	682	58986	683	53.7	689
Writing	3	31024	475	49.3	475	32460	457	49.9	457	63489	466	50.4	466
	4	31414	495	49.9	496	32628	476	50.0	478	64096	486	50.8	487
	5	31830	514	53.1	514	32739	494	54.6	496	64571	503	54.8	505
	6	30975	533	54.9	532	32378	510	59.1	512	63356	521	58.2	522
	7	31116	572	66.6	570	31965	543	67.9	545	63087	557	68.8	557
	8	30220	580	64.4	579	31697	550	66.6	554	61919	565	67.2	566
	9	30198	587	74.8	585	31484	556	75.1	558	61687	571	76.6	571
	10	29029	596	79.3	594	29992	559	79.7	561	59027	577	81.6	577
Mathematics	3	31719	462	86.9	467	33158	466	93.1	473	64879	464	90.1	470
	4	31520	491	75.0	496	32799	493	80.1	501	64320	492	77.7	499
	5	31846	519	70.0	521	32801	519	76.7	522	64651	519	73.5	522
	6	30994	538	73.3	540	32439	538	79.9	542	63434	538	76.8	541
	7	31146	564	74.4	568	32036	561	82.2	568	63183	562	78.5	568
	8	30277	579	66.1	582	31754	575	75.3	581	62031	577	71.0	581
	9	30253	578	70.9	584	31590	577	79.5	585	61849	578	75.4	585
	10	29096	591	70.0	597	30052	591	77.4	599	59152	591	73.8	598
Reading Spanish	3	689	535	41.9	536	693	517	49.3	519	1382	526	46.6	528
	4	71	528	43.2	530	82	513	49.7	521	153	520	47.2	526
Writing Spanish	3	695	532	72.4	532	698	494	72.9	498	1394	513	75.2	515
	4	68	515	40.1	512	79	488	51.4	494	147	500	48.3	504

**Table 139. Scale Score Descriptive Statistics by Content Standard**

Content Area	Grade	Content Standard											
		1			2			3			4		
		Mean	SD	Median	Mean	SD	Median	Mean	SD	Median	Mean	SD	Median
Reading	3	556	83.8	566	.	.	.	.	.	.	.	.	.
	4	589	66.4	597	.	.	.	.	.	.	584	91.9	597
	5	612	78.6	622	.	.	.	.	.	.	613	99.4	622
	6	627	73.2	635	.	.	.	.	.	.	624	86.5	634
	7	643	72.3	647	.	.	.	.	.	.	641	80.9	649
	8	654	70.3	656	.	.	.	.	.	.	648	78.6	657
	9	659	57.7	663	.	.	.	.	.	.	655	72.1	663
	10	682	64.6	689	.	.	.	.	.	.	683	63.9	689
Writing	3	.	.	.	468	61.6	466	471	64.1	466	.	.	.
	4	.	.	.	486	55.1	487	489	60.3	487	.	.	.
	5	.	.	.	504	59.9	504	506	64.0	506	.	.	.
	6	.	.	.	521	63.8	522	523	65.9	523	.	.	.
	7	.	.	.	559	76.8	556	560	77.1	558	.	.	.
	8	.	.	.	565	74.1	565	568	76.1	567	.	.	.
	9	.	.	.	572	83.8	571	579	94.6	571	.	.	.
	10	.	.	.	579	90.6	576	585	96.8	577	.	.	.
Mathematics	3	458	124.2	469	467	120.4	471	.	.	.	472	107.8	470
	4	490	92.1	501	510	130.1	499	500	121.4	499	497	94.5	498
	5	523	97.4	522	518	87.2	521	518	89.9	522	520	90.9	522
	6	537	97.1	540	540	94.1	542	537	95.7	541	535	91.4	542
	7	562	87.1	568	561	99.5	569	558	93.7	569	546	112.6	567
	8	575	80.4	582	571	90.9	580	574	85.5	581	573	85.4	582
	9	569	97.4	586	571	90.1	585	576	83.3	584	567	98.8	585
	10	577	104.4	597	586	85.3	598	590	83.8	599	560	120.3	598
Reading Spanish	3	526	46.6	528	.	.	.	.	.	.	.	.	.
	4	520	53.7	528	.	.	.	.	.	.	512	65.0	522
Writing Spanish	3	.	.	.	522	85.6	526	509	81.3	506	.	.	.
	4	.	.	.	492	53.0	486	503	58.7	510	.	.	.



**Table 139. Scale Score Descriptive Statistics by Content Standard (cont'd)**

Content Area	Grade	Content Standard						Total		
		5			6			Mean	SD	Median
		Mean	SD	Median	Mean	SD	Median			
Reading	3	.	.	.	.	.	.	556	83.8	566
	4	592	99.0	595	579	101.0	596	587	63.1	596
	5	609	94.8	623	612	88.2	621	612	71.2	623
	6	627	84.7	636	622	86.5	634	627	65.6	635
	7	647	84.6	648	640	77.5	647	641	64.1	649
	8	652	80.5	654	648	77.8	656	650	60.2	656
	9	665	70.6	662	652	73.5	661	658	49.9	662
	10	688	75.6	689	680	71.1	687	683	53.7	689
Writing	3	.	.	.	.	.	.	466	50.4	466
	4	.	.	.	.	.	.	486	50.8	487
	5	.	.	.	.	.	.	503	54.8	505
	6	.	.	.	.	.	.	521	58.2	522
	7	.	.	.	.	.	.	557	68.8	557
	8	.	.	.	.	.	.	565	67.2	566
	9	.	.	.	.	.	.	571	76.6	571
	10	.	.	.	.	.	.	577	81.6	577
Mathematics	3	.	.	.	464	112.5	470	464	90.1	470
	4	.	.	.	500	102.2	498	492	77.7	499
	5	.	.	.	527	99.6	524	519	73.5	522
	6	.	.	.	565	132.6	543	538	76.8	541
	7	.	.	.	.	.	.	562	78.5	568
	8	.	.	.	.	.	.	577	71.0	581
	9	.	.	.	.	.	.	578	75.4	585
	10	.	.	.	.	.	.	591	73.8	598
Reading Spanish	3	.	.	.	.	.	.	526	46.6	528
	4	522	63.7	539	514	57.6	517	520	47.2	526
Writing Spanish	3	.	.	.	.	.	.	513	75.2	515
	4	.	.	.	.	.	.	500	48.3	504

**Table 140. Scale Score Descriptive Statistics by Subcontent Area**

Content Area	Grade	Subcontent Area														
		1			2			3			4			5		
		Mean	SD	Med.	Mean	SD	Med.	Mean	SD	Med.	Mean	SD	Med.	Mean	SD	Med.
Reading	3	556	96.3	567	546	114.7	566	577	126.7	567	.	.	.	.	.	.
	4	586	70.5	597	581	100.5	597	616	120.2	597	.	.	.	.	.	.
	5	611	77.1	623	609	100.2	622	667	171.6	626	.	.	.	.	.	.
	6	626	75.6	635	621	87.1	635	650	129.5	637	.	.	.	.	.	.
	7	642	74.6	649	642	74.9	648	708	173.6	652	635	98.1	653	.	.	.
	8	650	76.6	658	651	73.1	655	698	151.2	660	644	107.7	660	.	.	.
	9	653	71.6	663	660	64.9	661	676	111.8	662	649	92.8	662	.	.	.
	10	683	62.1	688	680	73.5	689	700	123.3	691	677	83.2	690	.	.	.
Writing	3	.	.	.	.	.	.	.	.	.	.	.	.	469	64.2	469
	4	.	.	.	.	.	.	.	.	.	.	.	.	486	61.7	488
	5	.	.	.	.	.	.	.	.	.	.	.	.	504	67.1	505
	6	.	.	.	.	.	.	.	.	.	.	.	.	521	70.1	522
	7	.	.	.	.	.	.	.	.	.	.	.	.	559	84.9	557
	8	.	.	.	.	.	.	.	.	.	.	.	.	566	82.8	565
	9	.	.	.	.	.	.	.	.	.	.	.	.	570	93.6	573
	10	.	.	.	.	.	.	.	.	.	.	.	.	578	99.0	577
Mathematics	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	4	493	88.3	500	510	130.1	499	510	124.0	502	.	.	.	.	.	.
	5	520	91.3	522	519	89.0	521	518	95.8	520	.	.	.	.	.	.
	6	541	98.9	541	541	99.1	541	526	112.7	545	.	.	.	.	.	.
	7	554	99.7	568	542	119.3	566	.	.	.	.	.	.	.	.	.
	8	571	90.8	580	549	120.3	583	572	94.3	580	.	.	.	.	.	.
	9	575	105.5	585	553	117.0	584	.	.	.	.	.	.	.	.	.
	10	590	82.4	598	595	128.7	636	.	.	.	.	.	.	.	.	.
Reading Spanish	3	527	58.0	529	528	60.6	531	526	62.8	526	.	.	.	.	.	.
Spanish	4	511	55.1	519	524	56.5	534	531	91.5	535	.	.	.	.	.	.
Writing Spanish	3	.	.	.	.	.	.	.	.	.	.	.	.	542	113.5	550
Spanish	4	.	.	.	.	.	.	.	.	.	.	.	.	486	66.6	484

**Table 140. Scale Score Descriptive Statistics by Subcontent Area (cont'd)**

Content Area	Grade	Subcontent Area									Total		
		6			7			8			Mean	SD	Med.
		Mean	SD	Med.	Mean	SD	Med.	Mean	SD	Med.			
Reading	3	.	.	.	.	.	.	.	.	.	556	83.8	566
	4	.	.	.	.	.	.	.	.	.	587	63.1	596
	5	.	.	.	.	.	.	.	.	.	612	71.2	623
	6	.	.	.	.	.	.	.	.	.	627	65.6	635
	7	.	.	.	.	.	.	.	.	.	641	64.1	649
	8	.	.	.	.	.	.	.	.	.	650	60.2	656
	9	.	.	.	.	.	.	.	.	.	658	49.9	662
	10	.	.	.	.	.	.	.	.	.	683	53.7	689
Writing	3	.	.	.	499	105.4	468	471	87.2	468	466	50.4	466
	4	503	96.5	488	494	81.7	488	488	82.8	488	486	50.8	487
	5	539	127.7	520	504	79.2	508	518	99.5	507	503	54.8	505
	6	557	140.1	539	517	89.6	523	529	90.6	524	521	58.2	522
	7	583	144.1	509	561	85.7	559	561	120.2	560	557	68.8	557
	8	603	156.1	591	568	82.4	567	585	136.3	574	565	67.2	566
	9	640	194.8	569	583	114.9	572	594	139.0	573	571	76.6	571
	10	635	194.2	581	599	128.2	580	581	143.4	581	577	81.6	577
Mathematics	3	.	.	.	.	.	.	.	.	.	464	90.1	470
	4	.	.	.	.	.	.	.	.	.	492	77.7	499
	5	.	.	.	.	.	.	.	.	.	519	73.5	522
	6	.	.	.	.	.	.	.	.	.	538	76.8	541
	7	.	.	.	.	.	.	.	.	.	562	78.5	568
	8	.	.	.	.	.	.	.	.	.	577	71.0	581
	9	.	.	.	.	.	.	.	.	.	578	75.4	585
	10	.	.	.	.	.	.	.	.	.	591	73.8	598
Reading Spanish	3	.	.	.	.	.	.	.	.	.	526	46.6	528
	4	.	.	.	.	.	.	.	.	.	520	47.2	526
Writing Spanish	3	.	.	.	510	91.1	502	527	121.2	512	513	75.2	515
	4	492	76.5	490	509	70.6	513	478	86.4	502	500	48.3	504

**Table 141. Raw Score Descriptive Statistics by Content Standard**

Content Area	Grade	Content Standard															
		1				2				3				4			
		Mean	SD	Med.	Mean % of Max	Mean	SD	Med.	Mean % of Max	Mean	SD	Med.	Mean % of Max	Mean	SD	Med.	Mean % of Max
Reading	3	29	9.8	31	56.5	.	.	.	.	.	.	.	.	.	.	.	
	4	25	6.6	26	67.0	.	.	.	.	.	.	.	10	3.4	10	56.2	
	5	18	5.9	19	58.6	.	.	.	.	.	.	.	13	4.3	14	64.2	
	6	19	6.0	20	61.4	.	.	.	.	.	.	.	10	3.8	10	49.1	
	7	20	5.5	21	63.8	.	.	.	.	.	.	.	12	3.7	13	61.3	
	8	21	5.6	22	68.8	.	.	.	.	.	.	.	10	3.4	11	54.2	
	9	20	5.5	20	61.3	.	.	.	.	.	.	.	12	4.3	12	56.2	
	10	18	5.7	19	57.4	.	.	.	.	.	.	.	12	4.0	12	57.4	
Writing	3	.	.	.	.	17	4.2	18	72.7	24	5.9	26	76.1	.	.	.	.
	4	.	.	.	.	23	5.5	24	64.3	22	6.3	23	67.5	.	.	.	.
	5	.	.	.	.	23	5.3	24	64.2	23	6.0	24	69.7	.	.	.	.
	6	.	.	.	.	23	5.3	23	63.6	22	6.1	23	66.2	.	.	.	.
	7	.	.	.	.	23	5.7	23	63.7	22	5.9	23	67.6	.	.	.	.
	8	.	.	.	.	23	5.4	24	65.2	23	5.8	24	69.2	.	.	.	.
	9	.	.	.	.	23	5.6	23	64.7	23	6.1	24	72.0	.	.	.	.
	10	.	.	.	.	24	5.8	25	67.2	23	5.5	25	73.4	.	.	.	.
Mathematics	3	6	2.3	6	55.5	8	3.6	9	62.2	.	.	.	.	12	3.0	13	71.6
	4	11	4.0	11	55.8	10	3.8	10	67.9	9	3.5	10	64.2	20	5.5	21	68.2
	5	12	4.1	13	64.7	10	3.8	10	52.7	10	4.1	10	54.5	12	4.5	12	58.9
	6	9	4.2	8	50.4	10	3.9	10	59.5	9	4.3	9	51.9	11	5.0	10	48.0
	7	13	5.3	12	49.2	8	3.4	8	50.5	8	3.8	8	43.3	10	5.6	9	36.8
	8	10	5.0	10	46.9	9	4.9	8	42.7	8	3.4	7	44.9	11	5.4	10	44.3
	9	7	3.7	6	39.3	10	5.3	9	36.9	10	4.4	9	44.8	7	4.5	5	32.1
	10	7	3.6	6	39.3	10	6.1	9	38.1	10	4.2	9	46.1	7	5.1	5	31.4
Reading Spanish	3	31	9.6	33	60.5	.	.	.	.	.	.	.	.	.	.	.	
Spanish	4	21	7.6	23	57.5	.	.	.	.	.	.	.	9	3.5	8	47.2	
Writing Spanish	3	.	.	.	.	16	4.9	17	67.3	23	5.7	24	73.0	.	.	.	.
Spanish	4	.	.	.	.	16	5.7	16	47.5	18	6.2	18	52.6	.	.	.	.

**Table 141. Raw Score Descriptive Statistics by Content Standard (cont'd)**

Content Area	Grade	Content Standard								Total			
		5				6				Mean	SD	Med.	Mean % of Max
		Mean	SD	Med.	Mean % of Max	Mean	SD	Med.	Mean % of Max				
Reading	3	.	.	.	.	.	.	.	.	29	9.8	31	56.5
	4	11	3.6	11	63.1	10	4.0	10	52.8	55	16.1	58	61.2
	5	11	4.0	12	57.5	10	3.6	10	52.7	52	16.4	55	58.3
	6	12	3.8	13	60.4	9	3.6	9	47.4	50	15.6	52	55.4
	7	13	3.7	14	67.2	10	3.4	10	49.4	55	14.8	58	60.8
	8	12	4.1	12	61.0	11	3.8	11	53.8	55	15.2	56	60.6
	9	15	3.9	15	69.3	9	3.9	9	44.0	55	16.0	56	58.3
	10	13	4.0	14	65.9	10	3.8	10	49.3	53	15.9	55	57.5
Writing	3	.	.	.	.	.	.	.	.	42	9.6	44	74.6
	4	.	.	.	.	.	.	.	.	45	11.1	47	65.8
	5	.	.	.	.	.	.	.	.	46	10.7	48	66.8
	6	.	.	.	.	.	.	.	.	45	10.6	46	64.8
	7	.	.	.	.	.	.	.	.	45	10.8	47	65.5
	8	.	.	.	.	.	.	.	.	46	10.6	48	67.1
	9	.	.	.	.	.	.	.	.	46	11.1	48	68.3
	10	.	.	.	.	.	.	.	.	48	10.6	50	70.1
Mathematics	3	.	.	.	.	6	2.3	6	56.0	31	9.9	33	62.8
	4	.	.	.	.	13	4.2	13	66.2	62	18.8	65	64.6
	5	.	.	.	.	13	4.0	14	70.7	58	18.4	59	60.3
	6	.	.	.	.	9	3.1	10	72.0	48	18.6	48	55.1
	7	.	.	.	.	.	.	.	.	38	16.5	36	44.4
	8	.	.	.	.	.	.	.	.	38	17.3	36	44.7
	9	.	.	.	.	.	.	.	.	33	16.4	29	38.2
	10	.	.	.	.	.	.	.	.	34	17.4	29	38.6
Reading Spanish	3	.	.	.	.	.	.	.	.	31	9.6	33	60.5
Spanish	4	9	3.6	10	51.6	8	3.4	8	45.0	47	16.3	48	51.9
Writing Spanish	3	.	.	.	.	.	.	.	.	39	10.0	41	70.5
Spanish	4	.	.	.	.	.	.	.	.	35	10.9	34	50.2

**Table 142. Raw Score Descriptive Statistics by Subcontent Area**

Content Area	Grade	Subcontent Area																			
		1				2				3				4				5			
		Mean	SD	Med.	Mean % of Max	Mean	SD	Med.	Mean % of Max	Mean	SD	Med.	Mean % of Max	Mean	SD	Med.	Mean % of Max	Mean	SD	Med.	Mean % of Max
Reading	3	12	4.2	12	52.5	8	3.6	8	49.8	9	3.2	10	72.1	.	.	.	.	.	.	.	.
	4	24	8.0	25	57.0	10	3.7	11	57.4	10	2.3	11	78.1	.	.	.	.	.	.	.	.
	5	25	8.3	27	56.6	9	3.8	10	55.9	6	1.7	6	75.9	.	.	.	.	.	.	.	.
	6	18	5.7	18	55.4	14	5.6	14	47.5	7	2.2	7	68.4	.	.	.	.	.	.	.	.
	7	14	4.5	15	60.2	14	4.3	15	56.1	7	1.9	8	78.7	7	2.	7	49.5	.	.	.	.
	8	12	3.7	13	56.7	14	4.4	15	60.2	8	2.3	9	77.0	7	3.	7	54.2	.	.	.	.
	9	12	4.8	13	47.8	14	4.2	14	61.5	7	2.0	7	68.3	7	3.	7	49.6	.	.	.	.
	10	15	5.1	16	54.1	11	3.8	11	53.7	6	2.0	6	67.1	8	3.	8	52.2	.	.	.	.
Writing	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	15	3.9	16	71.9
	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12	3.4	13	59.5
	5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12	3.4	12	57.7
	6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	13	3.3	13	59.5
	7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12	3.3	12	59.7
	8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12	3.2	12	61.4
	9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12	3.6	12	57.5
	10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	14	4.1	14	60.7
Mathematics	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	4	14	4.7	14	59.5	10	3.8	10	67.9	8	2.3	8	71.7	.	.	.	.	.	.	.	.
	5	13	4.5	13	61.8	9	3.6	9	54.9	8	3.4	8	54.7	.	.	.	.	.	.	.	.
	6	10	4.2	10	58.0	10	3.9	10	60.1	4	2.5	4	39.3	.	.	.	.	.	.	.	.
	7	5	3.5	5	33.7	6	4.1	6	33.8	.	.	.	.	.	.	.	.	.	.	.	.
	8	7	4.3	7	41.4	5	3.7	5	35.7	6	3.2	5	41.6	.	.	.	.	.	.	.	.
	9	5	2.9	5	43.5	6	4.3	4	31.6	.	.	.	.	.	.	.	.	.	.	.	.
	10	9	5.4	8	38.8	2	1.0	2	42.4	.	.	.	.	.	.	.	.	.	.	.	.
Reading Spanish	3	15	4.9	16	63.7	9	3.6	9	57.0	7	2.3	7	58.9	.	.	.	.	.	.	.	
Spanish	4	17	7.3	17	46.0	13	4.6	14	55.2	7	2.5	8	65.7	.	.	.	.	.	.	.	
Writing Spanish	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	10	4.0	12	69.7
Spanish	4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	7	3.3	7	41.4

**Table 142. Raw Score Descriptive Statistics by Subcontent Area (cont'd)**

Content Area	Grade	Subcontent Area												Total			
		6				7				8							
		Mean	SD	Med.	Mean % of Max	Mean	SD	Med.	Mean % of Max	Mean	SD	Med.	Mean % of Max	Mean	SD	Med.	Mean % of Max
Reading	3	.	.	.	.	.	.	.	.	.	.	.	.	29	9.8	31	56.5
	4	.	.	.	.	.	.	.	.	.	.	.	.	55	16.1	58	61.2
	5	.	.	.	.	.	.	.	.	.	.	.	.	52	16.4	55	58.3
	6	.	.	.	.	.	.	.	.	.	.	.	.	50	15.6	52	55.4
	7	.	.	.	.	.	.	.	.	.	.	.	.	55	14.8	58	60.8
	8	.	.	.	.	.	.	.	.	.	.	.	.	55	15.2	56	60.6
	9	.	.	.	.	.	.	.	.	.	.	.	.	55	16.0	56	58.3
	10	.	.	.	.	.	.	.	.	.	.	.	.	53	15.9	55	57.5
Writing	3	.	.	.	.	14	3.1	15	81.8	8	2.7	8	66.7	42	9.6	44	74.6
	4	8	1.9	8	72.0	10	3.0	11	68.1	10	3.6	11	63.4	45	11.1	47	65.8
	5	8	1.9	9	77.1	12	3.7	13	64.7	11	3.3	12	71.9	46	10.7	48	66.8
	6	9	1.7	9	78.2	12	4.2	12	60.9	10	3.0	11	69.6	45	10.6	46	64.8
	7	8	1.9	7	71.5	17	4.7	18	68.5	6	2.2	6	61.3	45	10.8	47	65.5
	8	8	1.8	9	77.0	18	5.1	19	67.1	5	1.9	6	67.3	46	10.6	48	67.1
	9	9	1.8	9	81.1	16	4.8	17	71.2	7	2.1	7	70.2	46	11.1	48	68.3
	10	9	1.7	9	80.6	18	4.5	20	78.6	6	2.3	6	59.2	48	10.6	50	70.1
Mathematics	3	.	.	.	.	.	.	.	.	.	.	.	.	31	9.9	33	62.8
	4	.	.	.	.	.	.	.	.	.	.	.	.	62	18.8	65	64.6
	5	.	.	.	.	.	.	.	.	.	.	.	.	58	18.4	59	60.3
	6	.	.	.	.	.	.	.	.	.	.	.	.	48	18.6	48	55.1
	7	.	.	.	.	.	.	.	.	.	.	.	.	38	16.5	36	44.4
	8	.	.	.	.	.	.	.	.	.	.	.	.	38	17.3	36	44.7
	9	.	.	.	.	.	.	.	.	.	.	.	.	33	16.4	29	38.2
	10	.	.	.	.	.	.	.	.	.	.	.	.	34	17.4	29	38.6
Reading Spanish	3	.	.	.	.	.	.	.	.	.	.	.	.	31	9.6	33	60.5
	4	.	.	.	.	.	.	.	.	.	.	.	.	47	16.3	48	51.9
Writing Spanish	3	.	.	.	.	15	3.6	15	73.5	7	2.4	7	69.4	39	10.0	41	70.5
	4	6	2.2	6	50.7	11	4.0	11	58.4	6	2.8	5	42.2	35	10.9	34	50.2

**Table 143. Scale Score Distribution, Reading Grade 3**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
150	641	1.01	641	1.01	213	1	0.00	745	1.18	270	7	0.01	887	1.40
164	1	0.00	642	1.01	214	1	0.00	746	1.18	271	3	0.00	890	1.41
165	4	0.01	646	1.02	215	3	0.00	749	1.18	272	4	0.01	894	1.41
166	1	0.00	647	1.02	216	1	0.00	750	1.18	273	4	0.01	898	1.42
167	4	0.01	651	1.03	217	3	0.00	753	1.19	274	2	0.00	900	1.42
168	1	0.00	652	1.03	219	3	0.00	756	1.19	275	9	0.01	909	1.43
169	5	0.01	657	1.04	221	3	0.00	759	1.20	276	9	0.01	918	1.45
170	3	0.00	660	1.04	225	2	0.00	761	1.20	277	4	0.01	922	1.46
171	1	0.00	661	1.04	226	1	0.00	762	1.20	278	7	0.01	929	1.47
172	1	0.00	662	1.05	227	2	0.00	764	1.21	279	3	0.00	932	1.47
173	2	0.00	664	1.05	228	1	0.00	765	1.21	280	7	0.01	939	1.48
175	1	0.00	665	1.05	231	1	0.00	766	1.21	282	4	0.01	943	1.49
176	2	0.00	667	1.05	232	1	0.00	767	1.21	283	3	0.00	946	1.49
177	5	0.01	672	1.06	234	2	0.00	769	1.21	284	4	0.01	950	1.50
178	2	0.00	674	1.06	235	2	0.00	771	1.22	285	6	0.01	956	1.51
179	3	0.00	677	1.07	237	2	0.00	773	1.22	286	7	0.01	963	1.52
180	1	0.00	678	1.07	238	1	0.00	774	1.22	287	3	0.00	966	1.52
181	3	0.00	681	1.08	240	2	0.00	776	1.23	288	5	0.01	971	1.53
182	4	0.01	685	1.08	241	4	0.01	780	1.23	289	4	0.01	975	1.54
183	5	0.01	690	1.09	242	1	0.00	781	1.23	290	7	0.01	982	1.55
184	1	0.00	691	1.09	243	1	0.00	782	1.23	291	3	0.00	985	1.55
185	1	0.00	692	1.09	244	3	0.00	785	1.24	292	6	0.01	991	1.56
186	1	0.00	693	1.09	245	3	0.00	788	1.24	293	7	0.01	998	1.58
187	2	0.00	695	1.10	246	3	0.00	791	1.25	294	6	0.01	1004	1.58
188	2	0.00	697	1.10	247	4	0.01	795	1.26	295	4	0.01	1008	1.59
189	1	0.00	698	1.10	248	1	0.00	796	1.26	296	4	0.01	1012	1.60
190	2	0.00	700	1.11	249	4	0.01	800	1.26	297	3	0.00	1015	1.60
192	1	0.00	701	1.11	250	5	0.01	805	1.27	298	5	0.01	1020	1.61
193	3	0.00	704	1.11	251	1	0.00	806	1.27	299	4	0.01	1024	1.62
194	1	0.00	705	1.11	252	4	0.01	810	1.28	300	4	0.01	1028	1.62
195	2	0.00	707	1.12	253	7	0.01	817	1.29	301	9	0.01	1037	1.64
197	2	0.00	709	1.12	254	6	0.01	823	1.30	302	4	0.01	1041	1.64
198	2	0.00	711	1.12	255	3	0.00	826	1.30	303	4	0.01	1045	1.65
199	1	0.00	712	1.12	256	5	0.01	831	1.31	304	3	0.00	1048	1.65
200	3	0.00	715	1.13	257	4	0.01	835	1.32	305	5	0.01	1053	1.66
201	3	0.00	718	1.13	258	9	0.01	844	1.33	306	7	0.01	1060	1.67
202	3	0.00	721	1.14	259	3	0.00	847	1.34	307	5	0.01	1065	1.68
203	4	0.01	725	1.14	260	4	0.01	851	1.34	308	6	0.01	1071	1.69
204	3	0.00	728	1.15	261	4	0.01	855	1.35	309	8	0.01	1079	1.70
205	2	0.00	730	1.15	262	3	0.00	858	1.35	310	6	0.01	1085	1.71
206	2	0.00	732	1.16	263	1	0.00	859	1.36	311	6	0.01	1091	1.72
207	2	0.00	734	1.16	264	3	0.00	862	1.36	312	5	0.01	1096	1.73
208	1	0.00	735	1.16	265	5	0.01	867	1.37	313	6	0.01	1102	1.74
209	2	0.00	737	1.16	266	4	0.01	871	1.38	314	5	0.01	1107	1.75
210	1	0.00	738	1.17	267	2	0.00	873	1.38	315	5	0.01	1112	1.76
211	2	0.00	740	1.17	268	4	0.01	877	1.38	316	6	0.01	1118	1.76
212	4	0.01	744	1.17	269	3	0.00	880	1.39	317	4	0.01	1122	1.77



**Table 143. Scale Score Distribution, Reading Grade 3 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
318	7	0.01	1129	1.78	365	17	0.03	1642	2.59	412	35	0.06	2867	4.53
319	7	0.01	1136	1.79	366	20	0.03	1662	2.62	413	35	0.06	2902	4.58
320	9	0.01	1145	1.81	367	16	0.03	1678	2.65	414	39	0.06	2941	4.64
321	8	0.01	1153	1.82	368	13	0.02	1691	2.67	415	34	0.05	2975	4.70
322	6	0.01	1159	1.83	369	16	0.03	1707	2.69	416	33	0.05	3008	4.75
323	11	0.02	1170	1.85	370	20	0.03	1727	2.73	417	43	0.07	3051	4.82
324	6	0.01	1176	1.86	371	16	0.03	1743	2.75	418	51	0.08	3102	4.90
325	12	0.02	1188	1.88	372	15	0.02	1758	2.78	419	45	0.07	3147	4.97
326	9	0.01	1197	1.89	373	15	0.02	1773	2.80	420	46	0.07	3193	5.04
327	7	0.01	1204	1.90	374	15	0.02	1788	2.82	421	45	0.07	3238	5.11
328	3	0.00	1207	1.91	375	23	0.04	1811	2.86	422	42	0.07	3280	5.18
329	5	0.01	1212	1.91	376	15	0.02	1826	2.88	423	50	0.08	3330	5.26
330	7	0.01	1219	1.92	377	15	0.02	1841	2.91	424	55	0.09	3385	5.34
331	10	0.02	1229	1.94	378	18	0.03	1859	2.93	425	53	0.08	3438	5.43
332	5	0.01	1234	1.95	379	21	0.03	1880	2.97	426	39	0.06	3477	5.49
333	9	0.01	1243	1.96	380	25	0.04	1905	3.01	427	51	0.08	3528	5.57
334	11	0.02	1254	1.98	381	19	0.03	1924	3.04	428	63	0.10	3591	5.67
335	12	0.02	1266	2.00	382	25	0.04	1949	3.08	429	48	0.08	3639	5.74
336	7	0.01	1273	2.01	383	18	0.03	1967	3.11	430	57	0.09	3696	5.83
337	11	0.02	1284	2.03	384	33	0.05	2000	3.16	431	55	0.09	3751	5.92
338	5	0.01	1289	2.03	385	30	0.05	2030	3.20	432	50	0.08	3801	6.00
339	10	0.02	1299	2.05	386	20	0.03	2050	3.24	433	69	0.11	3870	6.11
340	10	0.02	1309	2.07	387	16	0.03	2066	3.26	434	58	0.09	3928	6.20
341	10	0.02	1319	2.08	388	29	0.05	2095	3.31	435	58	0.09	3986	6.29
342	12	0.02	1331	2.10	389	20	0.03	2115	3.34	436	62	0.10	4048	6.39
343	12	0.02	1343	2.12	390	26	0.04	2141	3.38	437	68	0.11	4116	6.50
344	12	0.02	1355	2.14	391	22	0.03	2163	3.41	438	72	0.11	4188	6.61
345	16	0.03	1371	2.16	392	26	0.04	2189	3.46	439	68	0.11	4256	6.72
346	6	0.01	1377	2.17	393	30	0.05	2219	3.50	440	68	0.11	4324	6.83
347	13	0.02	1390	2.19	394	22	0.03	2241	3.54	441	69	0.11	4393	6.94
348	11	0.02	1401	2.21	395	33	0.05	2274	3.59	442	69	0.11	4462	7.04
349	14	0.02	1415	2.23	396	34	0.05	2308	3.64	443	57	0.09	4519	7.13
350	12	0.02	1427	2.25	397	20	0.03	2328	3.68	444	81	0.13	4600	7.26
351	7	0.01	1434	2.26	398	41	0.06	2369	3.74	445	98	0.15	4698	7.42
352	18	0.03	1452	2.29	399	36	0.06	2405	3.80	446	65	0.10	4763	7.52
353	8	0.01	1460	2.30	400	22	0.03	2427	3.83	447	69	0.11	4832	7.63
354	21	0.03	1481	2.34	401	27	0.04	2454	3.87	448	75	0.12	4907	7.75
355	24	0.04	1505	2.38	402	47	0.07	2501	3.95	449	74	0.12	4981	7.86
356	9	0.01	1514	2.39	403	29	0.05	2530	3.99	450	78	0.12	5059	7.99
357	15	0.02	1529	2.41	404	37	0.06	2567	4.05	451	82	0.13	5141	8.12
358	15	0.02	1544	2.44	405	34	0.05	2601	4.11	452	75	0.12	5216	8.23
359	11	0.02	1555	2.45	406	42	0.07	2643	4.17	453	83	0.13	5299	8.37
360	18	0.03	1573	2.48	407	38	0.06	2681	4.23	454	76	0.12	5375	8.49
361	15	0.02	1588	2.51	408	43	0.07	2724	4.30	455	80	0.13	5455	8.61
362	13	0.02	1601	2.53	409	30	0.05	2754	4.35	456	87	0.14	5542	8.75
363	14	0.02	1615	2.55	410	36	0.06	2790	4.40	457	81	0.13	5623	8.88
364	10	0.02	1625	2.57	411	42	0.07	2832	4.47	458	99	0.16	5722	9.03





**Table 143. Scale Score Distribution, Reading Grade 3 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
741	9	0.01	63084	99.59	794	12	0.02	63294	99.92
742	8	0.01	63092	99.60	795	51	0.08	63345	100.00
743	6	0.01	63098	99.61					
744	3	0.00	63101	99.61					
745	11	0.02	63112	99.63					
746	10	0.02	63122	99.65					
747	8	0.01	63130	99.66					
748	6	0.01	63136	99.67					
749	3	0.00	63139	99.67					
750	7	0.01	63146	99.69					
751	3	0.00	63149	99.69					
752	7	0.01	63156	99.70					
753	3	0.00	63159	99.71					
754	2	0.00	63161	99.71					
755	7	0.01	63168	99.72					
756	1	0.00	63169	99.72					
757	1	0.00	63170	99.72					
758	9	0.01	63179	99.74					
759	3	0.00	63182	99.74					
760	3	0.00	63185	99.75					
761	5	0.01	63190	99.76					
762	5	0.01	63195	99.76					
763	5	0.01	63200	99.77					
764	1	0.00	63201	99.77					
765	2	0.00	63203	99.78					
766	15	0.02	63218	99.80					
767	7	0.01	63225	99.81					
769	3	0.00	63228	99.82					
770	4	0.01	63232	99.82					
771	3	0.00	63235	99.83					
772	4	0.01	63239	99.83					
773	2	0.00	63241	99.84					
774	5	0.01	63246	99.84					
775	1	0.00	63247	99.85					
776	7	0.01	63254	99.86					
777	7	0.01	63261	99.87					
779	3	0.00	63264	99.87					
780	1	0.00	63265	99.87					
781	2	0.00	63267	99.88					
782	1	0.00	63268	99.88					
784	3	0.00	63271	99.88					
785	2	0.00	63273	99.89					
788	2	0.00	63275	99.89					
789	2	0.00	63277	99.89					
790	2	0.00	63279	99.90					
792	1	0.00	63280	99.90					
793	2	0.00	63282	99.90					

**Table 144. Scale Score Distribution, Reading Grade 3 (Spanish)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
300	9	0.65	9	0.65	461	4	0.29	85	6.15	508	10	0.72	438	31.69
307	1	0.07	10	0.72	462	5	0.36	90	6.51	509	15	1.09	453	32.78
335	1	0.07	11	0.80	463	2	0.14	92	6.66	510	13	0.94	466	33.72
347	1	0.07	12	0.87	464	2	0.14	94	6.80	511	8	0.58	474	34.30
358	1	0.07	13	0.94	465	7	0.51	101	7.31	512	8	0.58	482	34.88
362	1	0.07	14	1.01	466	6	0.43	107	7.74	513	12	0.87	494	35.75
388	1	0.07	15	1.09	467	6	0.43	113	8.18	514	17	1.23	511	36.98
389	1	0.07	16	1.16	468	5	0.36	118	8.54	515	18	1.30	529	38.28
391	1	0.07	17	1.23	469	7	0.51	125	9.04	516	14	1.01	543	39.29
392	1	0.07	18	1.30	470	5	0.36	130	9.41	517	12	0.87	555	40.16
401	1	0.07	19	1.37	471	7	0.51	137	9.91	518	12	0.87	567	41.03
405	1	0.07	20	1.45	472	4	0.29	141	10.20	519	18	1.30	585	42.33
406	1	0.07	21	1.52	473	7	0.51	148	10.71	520	14	1.01	599	43.34
408	2	0.14	23	1.66	474	1	0.07	149	10.78	521	13	0.94	612	44.28
409	1	0.07	24	1.74	475	5	0.36	154	11.14	522	11	0.80	623	45.08
410	1	0.07	25	1.81	476	3	0.22	157	11.36	523	12	0.87	635	45.95
411	1	0.07	26	1.88	477	4	0.29	161	11.65	524	14	1.01	649	46.96
416	1	0.07	27	1.95	478	4	0.29	165	11.94	525	11	0.80	660	47.76
417	2	0.14	29	2.10	479	5	0.36	170	12.30	526	6	0.43	666	48.19
420	1	0.07	30	2.17	480	4	0.29	174	12.59	527	13	0.94	679	49.13
424	1	0.07	31	2.24	481	5	0.36	179	12.95	528	13	0.94	692	50.07
429	2	0.14	33	2.39	482	7	0.51	186	13.46	529	13	0.94	705	51.01
430	1	0.07	34	2.46	483	9	0.65	195	14.11	530	17	1.23	722	52.24
433	1	0.07	35	2.53	484	10	0.72	205	14.83	531	14	1.01	736	53.26
434	1	0.07	36	2.60	485	6	0.43	211	15.27	532	12	0.87	748	54.12
435	2	0.14	38	2.75	486	8	0.58	219	15.85	533	7	0.51	755	54.63
436	3	0.22	41	2.97	487	6	0.43	225	16.28	534	9	0.65	764	55.28
438	1	0.07	42	3.04	488	10	0.72	235	17.00	535	12	0.87	776	56.15
439	1	0.07	43	3.11	489	11	0.80	246	17.80	536	8	0.58	784	56.73
440	2	0.14	45	3.26	490	10	0.72	256	18.52	537	15	1.09	799	57.81
441	2	0.14	47	3.40	491	10	0.72	266	19.25	538	16	1.16	815	58.97
444	2	0.14	49	3.55	492	6	0.43	272	19.68	539	11	0.80	826	59.77
445	1	0.07	50	3.62	493	9	0.65	281	20.33	540	11	0.80	837	60.56
446	1	0.07	51	3.69	494	10	0.72	291	21.06	541	13	0.94	850	61.51
447	1	0.07	52	3.76	495	8	0.58	299	21.64	542	15	1.09	865	62.59
448	1	0.07	53	3.84	496	10	0.72	309	22.36	543	11	0.80	876	63.39
449	1	0.07	54	3.91	497	6	0.43	315	22.79	544	14	1.01	890	64.40
450	3	0.22	57	4.12	498	12	0.87	327	23.66	545	16	1.16	906	65.56
451	1	0.07	58	4.20	499	10	0.72	337	24.38	546	16	1.16	922	66.71
452	5	0.36	63	4.56	500	5	0.36	342	24.75	547	13	0.94	935	67.66
453	3	0.22	66	4.78	501	6	0.43	348	25.18	548	18	1.30	953	68.96
454	2	0.14	68	4.92	502	14	1.01	362	26.19	549	10	0.72	963	69.68
455	2	0.14	70	5.07	503	15	1.09	377	27.28	550	15	1.09	978	70.77
457	2	0.14	72	5.21	504	12	0.87	389	28.15	551	13	0.94	991	71.71
458	4	0.29	76	5.50	505	11	0.80	400	28.94	552	15	1.09	1006	72.79
459	3	0.22	79	5.72	506	16	1.16	416	30.10	553	16	1.16	1022	73.95
460	2	0.14	81	5.86	507	12	0.87	428	30.97	554	15	1.09	1037	75.04

**Table 144. Scale Score Distribution, Reading Grade 3 (Spanish) (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
555	17	1.23	1054	76.27	603	1	0.07	1335	96.60
556	15	1.09	1069	77.35	604	2	0.14	1337	96.74
557	6	0.43	1075	77.79	605	1	0.07	1338	96.82
558	9	0.65	1084	78.44	606	2	0.14	1340	96.96
559	9	0.65	1093	79.09	607	1	0.07	1341	97.03
560	11	0.80	1104	79.88	608	1	0.07	1342	97.11
561	8	0.58	1112	80.46	609	3	0.22	1345	97.32
562	7	0.51	1119	80.97	610	4	0.29	1349	97.61
563	11	0.80	1130	81.77	611	2	0.14	1351	97.76
564	7	0.51	1137	82.27	612	1	0.07	1352	97.83
565	10	0.72	1147	83.00	613	2	0.14	1354	97.97
566	13	0.94	1160	83.94	615	1	0.07	1355	98.05
567	12	0.87	1172	84.80	616	2	0.14	1357	98.19
568	12	0.87	1184	85.67	617	2	0.14	1359	98.34
569	7	0.51	1191	86.18	619	4	0.29	1363	98.63
570	4	0.29	1195	86.47	621	1	0.07	1364	98.70
571	9	0.65	1204	87.12	622	1	0.07	1365	98.77
572	10	0.72	1214	87.84	624	1	0.07	1366	98.84
573	6	0.43	1220	88.28	625	2	0.14	1368	98.99
574	10	0.72	1230	89.00	627	1	0.07	1369	99.06
575	2	0.14	1232	89.15	628	1	0.07	1370	99.13
576	6	0.43	1238	89.58	630	1	0.07	1371	99.20
577	5	0.36	1243	89.94	632	1	0.07	1372	99.28
578	5	0.36	1248	90.30	633	1	0.07	1373	99.35
579	7	0.51	1255	90.81	636	2	0.14	1375	99.49
580	5	0.36	1260	91.17	639	1	0.07	1376	99.57
581	6	0.43	1266	91.61	651	1	0.07	1377	99.64
582	4	0.29	1270	91.90	659	2	0.14	1379	99.78
583	5	0.36	1275	92.26	668	1	0.07	1380	99.86
584	3	0.22	1278	92.47	670	1	0.07	1381	99.93
585	5	0.36	1283	92.84	676	1	0.07	1382	100.00
586	5	0.36	1288	93.20					
587	3	0.22	1291	93.42					
588	3	0.22	1294	93.63					
589	2	0.14	1296	93.78					
590	4	0.29	1300	94.07					
591	6	0.43	1306	94.50					
592	4	0.29	1310	94.79					
593	2	0.14	1312	94.93					
594	1	0.07	1313	95.01					
595	4	0.29	1317	95.30					
597	4	0.29	1321	95.59					
598	4	0.29	1325	95.88					
599	4	0.29	1329	96.16					
600	1	0.07	1330	96.24					
601	2	0.14	1332	96.38					
602	2	0.14	1334	96.53					

**Table 145. Scale Score Distribution, Writing Grade 3**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
150	95	0.15	95	0.15	292	4	0.01	223	0.35	339	20	0.03	600	0.95
240	1	0.00	96	0.15	293	1	0.00	224	0.35	340	15	0.02	615	0.97
242	3	0.00	99	0.16	294	3	0.00	227	0.36	341	22	0.03	637	1.00
243	1	0.00	100	0.16	295	4	0.01	231	0.36	342	26	0.04	663	1.04
245	2	0.00	102	0.16	296	3	0.00	234	0.37	343	16	0.03	679	1.07
246	2	0.00	104	0.16	297	3	0.00	237	0.37	344	28	0.04	707	1.11
247	1	0.00	105	0.17	298	3	0.00	240	0.38	345	20	0.03	727	1.15
248	2	0.00	107	0.17	299	2	0.00	242	0.38	346	18	0.03	745	1.17
249	2	0.00	109	0.17	300	5	0.01	247	0.39	347	27	0.04	772	1.22
250	3	0.00	112	0.18	301	2	0.00	249	0.39	348	17	0.03	789	1.24
253	5	0.01	117	0.18	302	2	0.00	251	0.40	349	18	0.03	807	1.27
254	5	0.01	122	0.19	303	5	0.01	256	0.40	350	25	0.04	832	1.31
255	2	0.00	124	0.20	304	6	0.01	262	0.41	351	22	0.03	854	1.35
256	1	0.00	125	0.20	305	4	0.01	266	0.42	352	33	0.05	887	1.40
257	3	0.00	128	0.20	306	4	0.01	270	0.43	353	27	0.04	914	1.44
258	1	0.00	129	0.20	307	5	0.01	275	0.43	354	24	0.04	938	1.48
259	2	0.00	131	0.21	308	6	0.01	281	0.44	355	26	0.04	964	1.52
260	2	0.00	133	0.21	309	4	0.01	285	0.45	356	33	0.05	997	1.57
261	3	0.00	136	0.21	310	5	0.01	290	0.46	357	36	0.06	1033	1.63
262	3	0.00	139	0.22	311	12	0.02	302	0.48	358	30	0.05	1063	1.67
263	3	0.00	142	0.22	312	8	0.01	310	0.49	359	22	0.03	1085	1.71
264	5	0.01	147	0.23	313	5	0.01	315	0.50	360	33	0.05	1118	1.76
265	4	0.01	151	0.24	314	5	0.01	320	0.50	361	42	0.07	1160	1.83
266	4	0.01	155	0.24	315	7	0.01	327	0.52	362	50	0.08	1210	1.91
267	4	0.01	159	0.25	316	5	0.01	332	0.52	363	48	0.08	1258	1.98
268	2	0.00	161	0.25	317	9	0.01	341	0.54	364	40	0.06	1298	2.04
269	2	0.00	163	0.26	318	6	0.01	347	0.55	365	39	0.06	1337	2.11
270	4	0.01	167	0.26	319	7	0.01	354	0.56	366	56	0.09	1393	2.19
271	1	0.00	168	0.26	320	11	0.02	365	0.57	367	42	0.07	1435	2.26
272	4	0.01	172	0.27	321	7	0.01	372	0.59	368	56	0.09	1491	2.35
274	2	0.00	174	0.27	322	10	0.02	382	0.60	369	53	0.08	1544	2.43
275	4	0.01	178	0.28	323	5	0.01	387	0.61	370	64	0.10	1608	2.53
276	1	0.00	179	0.28	324	9	0.01	396	0.62	371	51	0.08	1659	2.61
277	1	0.00	180	0.28	325	10	0.02	406	0.64	372	71	0.11	1730	2.72
278	6	0.01	186	0.29	326	11	0.02	417	0.66	373	61	0.10	1791	2.82
279	2	0.00	188	0.30	327	8	0.01	425	0.67	374	72	0.11	1863	2.93
280	3	0.00	191	0.30	328	13	0.02	438	0.69	375	77	0.12	1940	3.06
281	3	0.00	194	0.31	329	14	0.02	452	0.71	376	78	0.12	2018	3.18
282	3	0.00	197	0.31	330	11	0.02	463	0.73	377	86	0.14	2104	3.31
283	1	0.00	198	0.31	331	19	0.03	482	0.76	378	87	0.14	2191	3.45
284	1	0.00	199	0.31	332	14	0.02	496	0.78	379	92	0.14	2283	3.60
285	3	0.00	202	0.32	333	10	0.02	506	0.80	380	79	0.12	2362	3.72
287	4	0.01	206	0.32	334	11	0.02	517	0.81	381	102	0.16	2464	3.88
288	6	0.01	212	0.33	335	12	0.02	529	0.83	382	107	0.17	2571	4.05
289	1	0.00	213	0.34	336	20	0.03	549	0.86	383	97	0.15	2668	4.20
290	4	0.01	217	0.34	337	15	0.02	564	0.89	384	103	0.16	2771	4.36
291	2	0.00	219	0.34	338	16	0.03	580	0.91	385	100	0.16	2871	4.52





**Table 145. Scale Score Distribution, Writing Grade 3 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
527	194	0.31	57814	91.06	574	85	0.13	62465	98.39
528	169	0.27	57983	91.33	576	28	0.04	62493	98.43
529	165	0.26	58148	91.59	577	24	0.04	62517	98.47
530	182	0.29	58330	91.87	578	7	0.01	62524	98.48
531	180	0.28	58510	92.16	579	128	0.20	62652	98.68
532	117	0.18	58627	92.34	580	3	0.00	62655	98.69
533	222	0.35	58849	92.69	581	7	0.01	62662	98.70
534	261	0.41	59110	93.10	583	32	0.05	62694	98.75
535	211	0.33	59321	93.44	584	24	0.04	62718	98.79
536	128	0.20	59449	93.64	585	214	0.34	62932	99.12
537	186	0.29	59635	93.93	586	9	0.01	62941	99.14
538	161	0.25	59796	94.18	587	6	0.01	62947	99.15
539	145	0.23	59941	94.41	589	126	0.20	63073	99.34
540	104	0.16	60045	94.58	595	14	0.02	63087	99.37
541	131	0.21	60176	94.78	602	95	0.15	63182	99.52
542	115	0.18	60291	94.96	680	307	0.48	63489	100.00
543	106	0.17	60397	95.13					
544	57	0.09	60454	95.22					
545	77	0.12	60531	95.34					
546	93	0.15	60624	95.49					
547	83	0.13	60707	95.62					
548	131	0.21	60838	95.82					
549	89	0.14	60927	95.96					
550	64	0.10	60991	96.07					
551	205	0.32	61196	96.39					
552	118	0.19	61314	96.57					
553	136	0.21	61450	96.79					
554	171	0.27	61621	97.06					
555	40	0.06	61661	97.12					
556	83	0.13	61744	97.25					
557	49	0.08	61793	97.33					
558	77	0.12	61870	97.45					
559	88	0.14	61958	97.59					
560	48	0.08	62006	97.66					
561	50	0.08	62056	97.74					
562	19	0.03	62075	97.77					
563	2	0.00	62077	97.78					
564	23	0.04	62100	97.81					
565	82	0.13	62182	97.94					
566	4	0.01	62186	97.95					
567	27	0.04	62213	97.99					
568	23	0.04	62236	98.03					
569	5	0.01	62241	98.03					
570	8	0.01	62249	98.05					
571	11	0.02	62260	98.06					
572	16	0.03	62276	98.09					
573	104	0.16	62380	98.25					

**Table 146. Scale Score Distribution, Writing Grade 3 (Spanish)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
250	13	0.93	13	0.93	401	2	0.14	90	6.46	453	4	0.29	271	19.44
271	1	0.07	14	1.00	402	2	0.14	92	6.60	454	6	0.43	277	19.87
274	1	0.07	15	1.08	404	2	0.14	94	6.74	455	7	0.50	284	20.37
285	1	0.07	16	1.15	405	2	0.14	96	6.89	456	4	0.29	288	20.66
300	1	0.07	17	1.22	406	5	0.36	101	7.25	457	6	0.43	294	21.09
306	1	0.07	18	1.29	407	6	0.43	107	7.68	458	3	0.22	297	21.31
317	1	0.07	19	1.36	408	3	0.22	110	7.89	459	5	0.36	302	21.66
318	1	0.07	20	1.43	411	4	0.29	114	8.18	460	5	0.36	307	22.02
326	1	0.07	21	1.51	412	5	0.36	119	8.54	461	3	0.22	310	22.24
330	1	0.07	22	1.58	413	4	0.29	123	8.82	462	4	0.29	314	22.53
334	1	0.07	23	1.65	414	2	0.14	125	8.97	463	5	0.36	319	22.88
336	2	0.14	25	1.79	416	4	0.29	129	9.25	464	11	0.79	330	23.67
338	1	0.07	26	1.87	417	4	0.29	133	9.54	465	15	1.08	345	24.75
339	1	0.07	27	1.94	418	2	0.14	135	9.68	466	7	0.50	352	25.25
347	1	0.07	28	2.01	419	1	0.07	136	9.76	467	7	0.50	359	25.75
350	1	0.07	29	2.08	420	3	0.22	139	9.97	468	7	0.50	366	26.26
356	3	0.22	32	2.30	421	1	0.07	140	10.04	469	5	0.36	371	26.61
358	1	0.07	33	2.37	422	1	0.07	141	10.11	470	1	0.07	372	26.69
359	2	0.14	35	2.51	424	2	0.14	143	10.26	471	10	0.72	382	27.40
361	2	0.14	37	2.65	425	3	0.22	146	10.47	472	8	0.57	390	27.98
362	1	0.07	38	2.73	426	3	0.22	149	10.69	473	3	0.22	393	28.19
363	2	0.14	40	2.87	427	3	0.22	152	10.90	474	1	0.07	394	28.26
364	3	0.22	43	3.08	428	5	0.36	157	11.26	475	5	0.36	399	28.62
365	3	0.22	46	3.30	429	5	0.36	162	11.62	476	11	0.79	410	29.41
367	1	0.07	47	3.37	430	1	0.07	163	11.69	477	3	0.22	413	29.63
370	3	0.22	50	3.59	431	8	0.57	171	12.27	478	5	0.36	418	29.99
371	2	0.14	52	3.73	432	7	0.50	178	12.77	479	5	0.36	423	30.34
373	2	0.14	54	3.87	433	2	0.14	180	12.91	480	10	0.72	433	31.06
374	1	0.07	55	3.95	434	5	0.36	185	13.27	481	3	0.22	436	31.28
377	2	0.14	57	4.09	435	4	0.29	189	13.56	482	10	0.72	446	31.99
378	1	0.07	58	4.16	436	3	0.22	192	13.77	483	7	0.50	453	32.50
380	1	0.07	59	4.23	437	2	0.14	194	13.92	484	5	0.36	458	32.86
381	1	0.07	60	4.30	438	1	0.07	195	13.99	485	6	0.43	464	33.29
382	1	0.07	61	4.38	439	3	0.22	198	14.20	486	5	0.36	469	33.64
384	1	0.07	62	4.45	440	3	0.22	201	14.42	487	2	0.14	471	33.79
386	2	0.14	64	4.59	441	10	0.72	211	15.14	488	10	0.72	481	34.51
388	3	0.22	67	4.81	442	1	0.07	212	15.21	489	7	0.50	488	35.01
389	1	0.07	68	4.88	443	6	0.43	218	15.64	490	8	0.57	496	35.58
390	1	0.07	69	4.95	444	6	0.43	224	16.07	491	10	0.72	506	36.30
391	2	0.14	71	5.09	445	6	0.43	230	16.50	492	4	0.29	510	36.59
392	2	0.14	73	5.24	446	3	0.22	233	16.71	493	10	0.72	520	37.30
395	2	0.14	75	5.38	447	7	0.50	240	17.22	494	6	0.43	526	37.73
396	3	0.22	78	5.60	448	1	0.07	241	17.29	495	8	0.57	534	38.31
397	3	0.22	81	5.81	449	8	0.57	249	17.86	496	7	0.50	541	38.81
398	3	0.22	84	6.03	450	8	0.57	257	18.44	497	9	0.65	550	39.45
399	1	0.07	85	6.10	451	6	0.43	263	18.87	498	5	0.36	555	39.81
400	3	0.22	88	6.31	452	4	0.29	267	19.15	499	11	0.79	566	40.60

**Table 146. Scale Score Distribution, Writing Grade 3 (Spanish) (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
500	11	0.79	577	41.39	547	9	0.65	948	68.01	595	5	0.36	1229	88.16
501	6	0.43	583	41.82	548	10	0.72	958	68.72	596	2	0.14	1231	88.31
502	10	0.72	593	42.54	549	5	0.36	963	69.08	597	3	0.22	1234	88.52
503	9	0.65	602	43.19	550	3	0.22	966	69.30	598	1	0.07	1235	88.59
504	4	0.29	606	43.47	551	7	0.50	973	69.80	599	3	0.22	1238	88.81
505	3	0.22	609	43.69	552	9	0.65	982	70.44	600	3	0.22	1241	89.02
506	7	0.50	616	44.19	553	4	0.29	986	70.73	601	4	0.29	1245	89.31
507	5	0.36	621	44.55	554	7	0.50	993	71.23	602	2	0.14	1247	89.45
508	8	0.57	629	45.12	555	8	0.57	1001	71.81	603	2	0.14	1249	89.60
509	7	0.50	636	45.62	556	8	0.57	1009	72.38	604	3	0.22	1252	89.81
510	17	1.22	653	46.84	557	8	0.57	1017	72.96	605	3	0.22	1255	90.03
511	12	0.86	665	47.70	558	6	0.43	1023	73.39	606	6	0.43	1261	90.46
512	7	0.50	672	48.21	559	10	0.72	1033	74.10	607	4	0.29	1265	90.75
513	9	0.65	681	48.85	560	4	0.29	1037	74.39	608	2	0.14	1267	90.89
514	4	0.29	685	49.14	561	3	0.22	1040	74.61	609	3	0.22	1270	91.10
515	14	1.00	699	50.14	562	7	0.50	1047	75.11	610	5	0.36	1275	91.46
516	8	0.57	707	50.72	563	7	0.50	1054	75.61	611	5	0.36	1280	91.82
517	13	0.93	720	51.65	564	5	0.36	1059	75.97	612	2	0.14	1282	91.97
518	7	0.50	727	52.15	565	5	0.36	1064	76.33	613	3	0.22	1285	92.18
519	6	0.43	733	52.58	566	10	0.72	1074	77.04	614	4	0.29	1289	92.47
520	5	0.36	738	52.94	567	6	0.43	1080	77.47	615	1	0.07	1290	92.54
521	8	0.57	746	53.52	568	5	0.36	1085	77.83	616	2	0.14	1292	92.68
522	4	0.29	750	53.80	569	4	0.29	1089	78.12	618	5	0.36	1297	93.04
523	9	0.65	759	54.45	570	5	0.36	1094	78.48	619	3	0.22	1300	93.26
524	9	0.65	768	55.09	571	6	0.43	1100	78.91	620	2	0.14	1302	93.40
525	7	0.50	775	55.60	572	5	0.36	1105	79.27	621	2	0.14	1304	93.54
526	10	0.72	785	56.31	573	6	0.43	1111	79.70	623	6	0.43	1310	93.97
527	8	0.57	793	56.89	574	7	0.50	1118	80.20	624	1	0.07	1311	94.05
528	5	0.36	798	57.25	575	5	0.36	1123	80.56	625	1	0.07	1312	94.12
529	8	0.57	806	57.82	576	8	0.57	1131	81.13	626	2	0.14	1314	94.26
530	6	0.43	812	58.25	577	4	0.29	1135	81.42	627	3	0.22	1317	94.48
531	9	0.65	821	58.90	579	8	0.57	1143	81.99	628	2	0.14	1319	94.62
532	12	0.86	833	59.76	580	6	0.43	1149	82.42	629	1	0.07	1320	94.69
533	11	0.79	844	60.55	581	6	0.43	1155	82.86	630	4	0.29	1324	94.98
534	7	0.50	851	61.05	582	4	0.29	1159	83.14	631	1	0.07	1325	95.05
535	7	0.50	858	61.55	583	14	1.00	1173	84.15	632	3	0.22	1328	95.27
536	8	0.57	866	62.12	584	7	0.50	1180	84.65	635	1	0.07	1329	95.34
537	12	0.86	878	62.98	585	3	0.22	1183	84.86	636	3	0.22	1332	95.55
538	7	0.50	885	63.49	586	3	0.22	1186	85.08	637	6	0.43	1338	95.98
539	7	0.50	892	63.99	587	8	0.57	1194	85.65	639	2	0.14	1340	96.13
540	6	0.43	898	64.42	588	5	0.36	1199	86.01	640	1	0.07	1341	96.20
541	6	0.43	904	64.85	589	3	0.22	1202	86.23	641	4	0.29	1345	96.48
542	4	0.29	908	65.14	590	2	0.14	1204	86.37	643	2	0.14	1347	96.63
543	8	0.57	916	65.71	591	3	0.22	1207	86.59	644	2	0.14	1349	96.77
544	9	0.65	925	66.36	592	6	0.43	1213	87.02	645	3	0.22	1352	96.99
545	7	0.50	932	66.86	593	3	0.22	1216	87.23	646	1	0.07	1353	97.06
546	7	0.50	939	67.36	594	8	0.57	1224	87.80	647	1	0.07	1354	97.13

**Table 146. Scale Score Distribution, Writing Grade 3 (Spanish) (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>
648	2	0.14	1356	97.27
649	1	0.07	1357	97.35
650	1	0.07	1358	97.42
651	1	0.07	1359	97.49
652	4	0.29	1363	97.78
653	1	0.07	1364	97.85
654	1	0.07	1365	97.92
656	2	0.14	1367	98.06
662	1	0.07	1368	98.13
663	1	0.07	1369	98.21
666	1	0.07	1370	98.28
668	1	0.07	1371	98.35
669	1	0.07	1372	98.42
670	2	0.14	1374	98.57
671	1	0.07	1375	98.64
673	2	0.14	1377	98.78
674	1	0.07	1378	98.85
676	1	0.07	1379	98.92
677	1	0.07	1380	99.00
678	1	0.07	1381	99.07
689	2	0.14	1383	99.21
697	1	0.07	1384	99.28
710	3	0.22	1387	99.50
712	2	0.14	1389	99.64
713	3	0.22	1392	99.86
750	2	0.14	1394	100.00

**Table 147. Scale Score Distribution, Mathematics Grade 3**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
150	274	0.42	274	0.42	198	9	0.01	525	0.81	245	17	0.03	1085	1.67
151	2	0.00	276	0.43	199	8	0.01	533	0.82	246	22	0.03	1107	1.71
152	3	0.00	279	0.43	200	10	0.02	543	0.84	247	24	0.04	1131	1.74
153	4	0.01	283	0.44	201	7	0.01	550	0.85	248	20	0.03	1151	1.77
154	4	0.01	287	0.44	202	9	0.01	559	0.86	249	18	0.03	1169	1.80
155	5	0.01	292	0.45	203	7	0.01	566	0.87	250	12	0.02	1181	1.82
156	6	0.01	298	0.46	204	5	0.01	571	0.88	251	24	0.04	1205	1.86
157	5	0.01	303	0.47	205	4	0.01	575	0.89	252	22	0.03	1227	1.89
158	2	0.00	305	0.47	206	5	0.01	580	0.89	253	19	0.03	1246	1.92
159	2	0.00	307	0.47	207	9	0.01	589	0.91	254	33	0.05	1279	1.97
160	6	0.01	313	0.48	208	7	0.01	596	0.92	255	24	0.04	1303	2.01
161	3	0.00	316	0.49	209	4	0.01	600	0.92	256	20	0.03	1323	2.04
162	4	0.01	320	0.49	210	11	0.02	611	0.94	257	27	0.04	1350	2.08
163	4	0.01	324	0.50	211	12	0.02	623	0.96	258	30	0.05	1380	2.13
165	1	0.00	325	0.50	212	8	0.01	631	0.97	259	22	0.03	1402	2.16
166	4	0.01	329	0.51	213	12	0.02	643	0.99	260	20	0.03	1422	2.19
167	4	0.01	333	0.51	214	8	0.01	651	1.00	261	20	0.03	1442	2.22
168	1	0.00	334	0.51	215	10	0.02	661	1.02	262	22	0.03	1464	2.26
169	3	0.00	337	0.52	216	14	0.02	675	1.04	263	30	0.05	1494	2.30
170	4	0.01	341	0.53	217	7	0.01	682	1.05	264	16	0.02	1510	2.33
171	3	0.00	344	0.53	218	13	0.02	695	1.07	265	25	0.04	1535	2.37
172	6	0.01	350	0.54	219	10	0.02	705	1.09	266	28	0.04	1563	2.41
173	1	0.00	351	0.54	220	18	0.03	723	1.11	267	26	0.04	1589	2.45
174	4	0.01	355	0.55	221	15	0.02	738	1.14	268	25	0.04	1614	2.49
175	7	0.01	362	0.56	222	6	0.01	744	1.15	269	30	0.05	1644	2.53
176	7	0.01	369	0.57	223	9	0.01	753	1.16	270	27	0.04	1671	2.58
177	5	0.01	374	0.58	224	9	0.01	762	1.17	271	36	0.06	1707	2.63
178	6	0.01	380	0.59	225	13	0.02	775	1.19	272	38	0.06	1745	2.69
179	8	0.01	388	0.60	226	24	0.04	799	1.23	273	34	0.05	1779	2.74
180	7	0.01	395	0.61	227	18	0.03	817	1.26	274	26	0.04	1805	2.78
181	10	0.02	405	0.62	228	9	0.01	826	1.27	275	22	0.03	1827	2.82
182	10	0.02	415	0.64	229	16	0.02	842	1.30	276	33	0.05	1860	2.87
183	7	0.01	422	0.65	230	15	0.02	857	1.32	277	44	0.07	1904	2.93
184	4	0.01	426	0.66	231	15	0.02	872	1.34	278	32	0.05	1936	2.98
185	5	0.01	431	0.66	232	19	0.03	891	1.37	279	44	0.07	1980	3.05
186	4	0.01	435	0.67	233	15	0.02	906	1.40	280	38	0.06	2018	3.11
187	15	0.02	450	0.69	234	8	0.01	914	1.41	281	41	0.06	2059	3.17
188	11	0.02	461	0.71	235	12	0.02	926	1.43	282	28	0.04	2087	3.22
189	7	0.01	468	0.72	236	17	0.03	943	1.45	283	30	0.05	2117	3.26
190	5	0.01	473	0.73	237	8	0.01	951	1.47	284	33	0.05	2150	3.31
191	6	0.01	479	0.74	238	22	0.03	973	1.50	285	45	0.07	2195	3.38
192	5	0.01	484	0.75	239	16	0.02	989	1.52	286	29	0.04	2224	3.43
193	5	0.01	489	0.75	240	13	0.02	1002	1.54	287	40	0.06	2264	3.49
194	11	0.02	500	0.77	241	23	0.04	1025	1.58	288	46	0.07	2310	3.56
195	4	0.01	504	0.78	242	10	0.02	1035	1.60	289	38	0.06	2348	3.62
196	7	0.01	511	0.79	243	12	0.02	1047	1.61	290	37	0.06	2385	3.68
197	5	0.01	516	0.80	244	21	0.03	1068	1.65	291	45	0.07	2430	3.75

**Table 147. Scale Score Distribution, Mathematics Grade 3 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
292	36	0.06	2466	3.80	339	98	0.15	5518	8.51	386	165	0.25	11670	17.99
293	48	0.07	2514	3.87	340	79	0.12	5597	8.63	387	170	0.26	11840	18.25
294	38	0.06	2552	3.93	341	102	0.16	5699	8.78	388	186	0.29	12026	18.54
295	42	0.06	2594	4.00	342	91	0.14	5790	8.92	389	186	0.29	12212	18.82
296	53	0.08	2647	4.08	343	103	0.16	5893	9.08	390	165	0.25	12377	19.08
297	42	0.06	2689	4.14	344	106	0.16	5999	9.25	391	172	0.27	12549	19.34
298	48	0.07	2737	4.22	345	108	0.17	6107	9.41	392	196	0.30	12745	19.64
299	42	0.06	2779	4.28	346	116	0.18	6223	9.59	393	211	0.33	12956	19.97
300	44	0.07	2823	4.35	347	110	0.17	6333	9.76	394	178	0.27	13134	20.24
301	43	0.07	2866	4.42	348	111	0.17	6444	9.93	395	207	0.32	13341	20.56
302	53	0.08	2919	4.50	349	113	0.17	6557	10.11	396	176	0.27	13517	20.83
303	53	0.08	2972	4.58	350	121	0.19	6678	10.29	397	179	0.28	13696	21.11
304	45	0.07	3017	4.65	351	122	0.19	6800	10.48	398	201	0.31	13897	21.42
305	54	0.08	3071	4.73	352	121	0.19	6921	10.67	399	196	0.30	14093	21.72
306	66	0.10	3137	4.84	353	116	0.18	7037	10.85	400	230	0.35	14323	22.08
307	65	0.10	3202	4.94	354	143	0.22	7180	11.07	401	225	0.35	14548	22.42
308	54	0.08	3256	5.02	355	115	0.18	7295	11.24	402	202	0.31	14750	22.73
309	55	0.08	3311	5.10	356	119	0.18	7414	11.43	403	212	0.33	14962	23.06
310	48	0.07	3359	5.18	357	123	0.19	7537	11.62	404	208	0.32	15170	23.38
311	52	0.08	3411	5.26	358	120	0.18	7657	11.80	405	204	0.31	15374	23.70
312	50	0.08	3461	5.33	359	104	0.16	7761	11.96	406	197	0.30	15571	24.00
313	69	0.11	3530	5.44	360	119	0.18	7880	12.15	407	223	0.34	15794	24.34
314	54	0.08	3584	5.52	361	119	0.18	7999	12.33	408	207	0.32	16001	24.66
315	63	0.10	3647	5.62	362	114	0.18	8113	12.50	409	221	0.34	16222	25.00
316	66	0.10	3713	5.72	363	135	0.21	8248	12.71	410	207	0.32	16429	25.32
317	57	0.09	3770	5.81	364	125	0.19	8373	12.91	411	223	0.34	16652	25.67
318	77	0.12	3847	5.93	365	143	0.22	8516	13.13	412	252	0.39	16904	26.05
319	66	0.10	3913	6.03	366	132	0.20	8648	13.33	413	238	0.37	17142	26.42
320	65	0.10	3978	6.13	367	135	0.21	8783	13.54	414	227	0.35	17369	26.77
321	85	0.13	4063	6.26	368	142	0.22	8925	13.76	415	222	0.34	17591	27.11
322	70	0.11	4133	6.37	369	121	0.19	9046	13.94	416	218	0.34	17809	27.45
323	82	0.13	4215	6.50	370	163	0.25	9209	14.19	417	237	0.37	18046	27.81
324	72	0.11	4287	6.61	371	166	0.26	9375	14.45	418	247	0.38	18293	28.20
325	78	0.12	4365	6.73	372	142	0.22	9517	14.67	419	269	0.41	18562	28.61
326	77	0.12	4442	6.85	373	165	0.25	9682	14.92	420	225	0.35	18787	28.96
327	75	0.12	4517	6.96	374	140	0.22	9822	15.14	421	204	0.31	18991	29.27
328	72	0.11	4589	7.07	375	146	0.23	9968	15.36	422	235	0.36	19226	29.63
329	82	0.13	4671	7.20	376	155	0.24	10123	15.60	423	237	0.37	19463	30.00
330	84	0.13	4755	7.33	377	149	0.23	10272	15.83	424	228	0.35	19691	30.35
331	83	0.13	4838	7.46	378	148	0.23	10420	16.06	425	272	0.42	19963	30.77
332	82	0.13	4920	7.58	379	145	0.22	10565	16.28	426	249	0.38	20212	31.15
333	109	0.17	5029	7.75	380	152	0.23	10717	16.52	427	288	0.44	20500	31.60
334	79	0.12	5108	7.87	381	143	0.22	10860	16.74	428	277	0.43	20777	32.02
335	65	0.10	5173	7.97	382	163	0.25	11023	16.99	429	258	0.40	21035	32.42
336	78	0.12	5251	8.09	383	157	0.24	11180	17.23	430	257	0.40	21292	32.82
337	92	0.14	5343	8.24	384	167	0.26	11347	17.49	431	235	0.36	21527	33.18
338	77	0.12	5420	8.35	385	158	0.24	11505	17.73	432	250	0.39	21777	33.57

**Table 147. Scale Score Distribution, Mathematics Grade 3 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
433	262	0.40	22039	33.97	480	298	0.46	35673	54.98	527	249	0.38	49467	76.25
434	288	0.44	22327	34.41	481	286	0.44	35959	55.42	528	238	0.37	49705	76.61
435	262	0.40	22589	34.82	482	327	0.50	36286	55.93	529	244	0.38	49949	76.99
436	262	0.40	22851	35.22	483	323	0.50	36609	56.43	530	255	0.39	50204	77.38
437	267	0.41	23118	35.63	484	312	0.48	36921	56.91	531	247	0.38	50451	77.76
438	279	0.43	23397	36.06	485	309	0.48	37230	57.38	532	250	0.39	50701	78.15
439	255	0.39	23652	36.46	486	299	0.46	37529	57.84	533	229	0.35	50930	78.50
440	262	0.40	23914	36.86	487	333	0.51	37862	58.36	534	233	0.36	51163	78.86
441	251	0.39	24165	37.25	488	294	0.45	38156	58.81	535	229	0.35	51392	79.21
442	276	0.43	24441	37.67	489	337	0.52	38493	59.33	536	228	0.35	51620	79.56
443	287	0.44	24728	38.11	490	303	0.47	38796	59.80	537	201	0.31	51821	79.87
444	286	0.44	25014	38.55	491	270	0.42	39066	60.21	538	218	0.34	52039	80.21
445	295	0.45	25309	39.01	492	307	0.47	39373	60.69	539	206	0.32	52245	80.53
446	284	0.44	25593	39.45	493	334	0.51	39707	61.20	540	235	0.36	52480	80.89
447	276	0.43	25869	39.87	494	320	0.49	40027	61.69	541	210	0.32	52690	81.21
448	267	0.41	26136	40.28	495	333	0.51	40360	62.21	542	199	0.31	52889	81.52
449	266	0.41	26402	40.69	496	285	0.44	40645	62.65	543	227	0.35	53116	81.87
450	282	0.43	26684	41.13	497	316	0.49	40961	63.13	544	227	0.35	53343	82.22
451	300	0.46	26984	41.59	498	335	0.52	41296	63.65	545	193	0.30	53536	82.52
452	315	0.49	27299	42.08	499	279	0.43	41575	64.08	546	201	0.31	53737	82.83
453	267	0.41	27566	42.49	500	335	0.52	41910	64.60	547	240	0.37	53977	83.20
454	279	0.43	27845	42.92	501	314	0.48	42224	65.08	548	222	0.34	54199	83.54
455	291	0.45	28136	43.37	502	296	0.46	42520	65.54	549	193	0.30	54392	83.84
456	289	0.45	28425	43.81	503	270	0.42	42790	65.95	550	214	0.33	54606	84.17
457	290	0.45	28715	44.26	504	281	0.43	43071	66.39	551	172	0.27	54778	84.43
458	284	0.44	28999	44.70	505	263	0.41	43334	66.79	552	187	0.29	54965	84.72
459	287	0.44	29286	45.14	506	286	0.44	43620	67.23	553	173	0.27	55138	84.99
460	288	0.44	29574	45.58	507	307	0.47	43927	67.71	554	203	0.31	55341	85.30
461	257	0.40	29831	45.98	508	300	0.46	44227	68.17	555	200	0.31	55541	85.61
462	298	0.46	30129	46.44	509	286	0.44	44513	68.61	556	211	0.33	55752	85.93
463	279	0.43	30408	46.87	510	303	0.47	44816	69.08	557	177	0.27	55929	86.21
464	289	0.45	30697	47.31	511	303	0.47	45119	69.54	558	178	0.27	56107	86.48
465	301	0.46	30998	47.78	512	251	0.39	45370	69.93	559	166	0.26	56273	86.74
466	315	0.49	31313	48.26	513	270	0.42	45640	70.35	560	187	0.29	56460	87.02
467	292	0.45	31605	48.71	514	278	0.43	45918	70.77	561	173	0.27	56633	87.29
468	315	0.49	31920	49.20	515	270	0.42	46188	71.19	562	152	0.23	56785	87.52
469	302	0.47	32222	49.66	516	277	0.43	46465	71.62	563	186	0.29	56971	87.81
470	318	0.49	32540	50.15	517	293	0.45	46758	72.07	564	180	0.28	57151	88.09
471	307	0.47	32847	50.63	518	309	0.48	47067	72.55	565	149	0.23	57300	88.32
472	326	0.50	33173	51.13	519	288	0.44	47355	72.99	566	168	0.26	57468	88.58
473	329	0.51	33502	51.64	520	247	0.38	47602	73.37	567	166	0.26	57634	88.83
474	288	0.44	33790	52.08	521	269	0.41	47871	73.79	568	153	0.24	57787	89.07
475	308	0.47	34098	52.56	522	268	0.41	48139	74.20	569	172	0.27	57959	89.33
476	336	0.52	34434	53.07	523	287	0.44	48426	74.64	570	153	0.24	58112	89.57
477	326	0.50	34760	53.58	524	251	0.39	48677	75.03	571	150	0.23	58262	89.80
478	320	0.49	35080	54.07	525	264	0.41	48941	75.43	572	169	0.26	58431	90.06
479	295	0.45	35375	54.52	526	277	0.43	49218	75.86	573	136	0.21	58567	90.27

**Table 147. Scale Score Distribution, Mathematics Grade 3 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
574	139	0.21	58706	90.49	621	50	0.08	62935	97.00	668	15	0.02	64322	99.14
575	125	0.19	58831	90.68	622	32	0.05	62967	97.05	669	19	0.03	64341	99.17
576	139	0.21	58970	90.89	623	41	0.06	63008	97.12	670	4	0.01	64345	99.18
577	112	0.17	59082	91.06	624	46	0.07	63054	97.19	671	3	0.00	64348	99.18
578	120	0.18	59202	91.25	625	61	0.09	63115	97.28	672	6	0.01	64354	99.19
579	135	0.21	59337	91.46	626	43	0.07	63158	97.35	674	10	0.02	64364	99.21
580	112	0.17	59449	91.63	627	44	0.07	63202	97.42	675	28	0.04	64392	99.25
581	125	0.19	59574	91.82	628	48	0.07	63250	97.49	676	25	0.04	64417	99.29
582	134	0.21	59708	92.03	629	38	0.06	63288	97.55	677	1	0.00	64418	99.29
583	120	0.18	59828	92.21	630	44	0.07	63332	97.62	678	2	0.00	64420	99.29
584	106	0.16	59934	92.38	631	52	0.08	63384	97.70	679	6	0.01	64426	99.30
585	130	0.20	60064	92.58	632	50	0.08	63434	97.77	680	11	0.02	64437	99.32
586	110	0.17	60174	92.75	633	24	0.04	63458	97.81	681	4	0.01	64441	99.32
587	116	0.18	60290	92.93	634	36	0.06	63494	97.87	682	46	0.07	64487	99.40
588	90	0.14	60380	93.07	635	41	0.06	63535	97.93	683	6	0.01	64493	99.41
589	104	0.16	60484	93.23	636	30	0.05	63565	97.97	684	10	0.02	64503	99.42
590	101	0.16	60585	93.38	637	37	0.06	63602	98.03	685	2	0.00	64505	99.42
591	85	0.13	60670	93.51	638	33	0.05	63635	98.08	686	14	0.02	64519	99.45
592	94	0.14	60764	93.66	639	25	0.04	63660	98.12	688	4	0.01	64523	99.45
593	104	0.16	60868	93.82	640	38	0.06	63698	98.18	689	6	0.01	64529	99.46
594	98	0.15	60966	93.97	641	30	0.05	63728	98.23	690	4	0.01	64533	99.47
595	118	0.18	61084	94.15	642	26	0.04	63754	98.27	691	42	0.06	64575	99.53
596	74	0.11	61158	94.26	643	37	0.06	63791	98.32	692	1	0.00	64576	99.53
597	85	0.13	61243	94.40	644	25	0.04	63816	98.36	693	13	0.02	64589	99.55
598	89	0.14	61332	94.53	645	23	0.04	63839	98.40	694	16	0.02	64605	99.58
599	73	0.11	61405	94.65	646	29	0.04	63868	98.44	695	10	0.02	64615	99.59
600	65	0.10	61470	94.75	647	49	0.08	63917	98.52	698	1	0.00	64616	99.59
601	92	0.14	61562	94.89	648	38	0.06	63955	98.58	700	263	0.41	64879	100.00
602	82	0.13	61644	95.01	649	19	0.03	63974	98.61					
603	85	0.13	61729	95.14	650	15	0.02	63989	98.63					
604	81	0.12	61810	95.27	651	23	0.04	64012	98.66					
605	76	0.12	61886	95.39	652	19	0.03	64031	98.69					
606	92	0.14	61978	95.53	653	42	0.06	64073	98.76					
607	63	0.10	62041	95.63	654	38	0.06	64111	98.82					
608	67	0.10	62108	95.73	655	11	0.02	64122	98.83					
609	72	0.11	62180	95.84	656	21	0.03	64143	98.87					
610	53	0.08	62233	95.92	657	15	0.02	64158	98.89					
611	78	0.12	62311	96.04	658	20	0.03	64178	98.92					
612	66	0.10	62377	96.14	659	31	0.05	64209	98.97					
613	69	0.11	62446	96.25	660	23	0.04	64232	99.00					
614	74	0.11	62520	96.36	661	4	0.01	64236	99.01					
615	59	0.09	62579	96.45	662	9	0.01	64245	99.02					
616	62	0.10	62641	96.55	663	13	0.02	64258	99.04					
617	62	0.10	62703	96.65	664	3	0.00	64261	99.05					
618	59	0.09	62762	96.74	665	21	0.03	64282	99.08					
619	58	0.09	62820	96.83	666	4	0.01	64286	99.09					
620	65	0.10	62885	96.93	667	21	0.03	64307	99.12					



**Table 148. Scale Score Distribution, Reading Grade 4**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
180	396	0.62	396	0.62	369	2	0.00	492	0.77	416	12	0.02	840	1.31
302	1	0.00	397	0.62	370	5	0.01	497	0.77	417	12	0.02	852	1.33
303	1	0.00	398	0.62	371	3	0.00	500	0.78	418	13	0.02	865	1.35
307	2	0.00	400	0.62	372	3	0.00	503	0.78	419	13	0.02	878	1.37
308	1	0.00	401	0.63	373	4	0.01	507	0.79	420	15	0.02	893	1.39
310	1	0.00	402	0.63	374	3	0.00	510	0.80	421	10	0.02	903	1.41
311	1	0.00	403	0.63	375	6	0.01	516	0.80	422	22	0.03	925	1.44
313	1	0.00	404	0.63	376	7	0.01	523	0.82	423	14	0.02	939	1.46
318	1	0.00	405	0.63	377	4	0.01	527	0.82	424	19	0.03	958	1.49
320	1	0.00	406	0.63	378	5	0.01	532	0.83	425	18	0.03	976	1.52
322	1	0.00	407	0.63	379	6	0.01	538	0.84	426	17	0.03	993	1.55
324	1	0.00	408	0.64	380	3	0.00	541	0.84	427	12	0.02	1005	1.57
325	2	0.00	410	0.64	381	1	0.00	542	0.85	428	15	0.02	1020	1.59
326	1	0.00	411	0.64	382	5	0.01	547	0.85	429	14	0.02	1034	1.61
327	2	0.00	413	0.64	383	4	0.01	551	0.86	430	20	0.03	1054	1.64
328	1	0.00	414	0.65	384	8	0.01	559	0.87	431	9	0.01	1063	1.66
330	1	0.00	415	0.65	385	5	0.01	564	0.88	432	21	0.03	1084	1.69
333	2	0.00	417	0.65	386	5	0.01	569	0.89	433	20	0.03	1104	1.72
334	1	0.00	418	0.65	387	6	0.01	575	0.90	434	22	0.03	1126	1.76
335	1	0.00	419	0.65	388	3	0.00	578	0.90	435	15	0.02	1141	1.78
336	1	0.00	420	0.65	389	9	0.01	587	0.92	436	18	0.03	1159	1.81
338	2	0.00	422	0.66	390	2	0.00	589	0.92	437	26	0.04	1185	1.85
339	3	0.00	425	0.66	391	5	0.01	594	0.93	438	34	0.05	1219	1.90
341	1	0.00	426	0.66	392	10	0.02	604	0.94	439	23	0.04	1242	1.94
342	1	0.00	427	0.67	393	2	0.00	606	0.94	440	20	0.03	1262	1.97
343	3	0.00	430	0.67	394	9	0.01	615	0.96	441	15	0.02	1277	1.99
344	1	0.00	431	0.67	395	5	0.01	620	0.97	442	33	0.05	1310	2.04
346	3	0.00	434	0.68	396	8	0.01	628	0.98	443	21	0.03	1331	2.08
348	2	0.00	436	0.68	397	3	0.00	631	0.98	444	26	0.04	1357	2.12
349	2	0.00	438	0.68	398	8	0.01	639	1.00	445	36	0.06	1393	2.17
350	5	0.01	443	0.69	399	15	0.02	654	1.02	446	22	0.03	1415	2.21
351	5	0.01	448	0.70	400	8	0.01	662	1.03	447	25	0.04	1440	2.25
352	4	0.01	452	0.70	401	14	0.02	676	1.05	448	36	0.06	1476	2.30
353	1	0.00	453	0.71	402	8	0.01	684	1.07	449	31	0.05	1507	2.35
354	1	0.00	454	0.71	403	10	0.02	694	1.08	450	21	0.03	1528	2.38
355	1	0.00	455	0.71	404	12	0.02	706	1.10	451	34	0.05	1562	2.44
356	2	0.00	457	0.71	405	6	0.01	712	1.11	452	40	0.06	1602	2.50
357	1	0.00	458	0.71	406	8	0.01	720	1.12	453	28	0.04	1630	2.54
358	6	0.01	464	0.72	407	7	0.01	727	1.13	454	38	0.06	1668	2.60
361	1	0.00	465	0.73	408	13	0.02	740	1.15	455	30	0.05	1698	2.65
362	5	0.01	470	0.73	409	4	0.01	744	1.16	456	39	0.06	1737	2.71
363	7	0.01	477	0.74	410	16	0.02	760	1.19	457	35	0.05	1772	2.76
364	4	0.01	481	0.75	411	11	0.02	771	1.20	458	46	0.07	1818	2.83
365	3	0.00	484	0.75	412	15	0.02	786	1.23	459	37	0.06	1855	2.89
366	2	0.00	486	0.76	413	12	0.02	798	1.24	460	40	0.06	1895	2.95
367	2	0.00	488	0.76	414	11	0.02	809	1.26	461	51	0.08	1946	3.03
368	2	0.00	490	0.76	415	19	0.03	828	1.29	462	45	0.07	1991	3.10



**Table 148. Scale Score Distribution, Reading Grade 4 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
604	514	0.80	36312	56.62	651	297	0.46	57517	89.69	698	28	0.04	63672	99.28
605	555	0.87	36867	57.49	652	268	0.42	57785	90.10	699	36	0.06	63708	99.34
606	512	0.80	37379	58.29	653	255	0.40	58040	90.50	700	18	0.03	63726	99.37
607	547	0.85	37926	59.14	654	270	0.42	58310	90.92	701	18	0.03	63744	99.40
608	519	0.81	38445	59.95	655	271	0.42	58581	91.35	702	16	0.02	63760	99.42
609	530	0.83	38975	60.77	656	257	0.40	58838	91.75	703	17	0.03	63777	99.45
610	549	0.86	39524	61.63	657	233	0.36	59071	92.11	704	24	0.04	63801	99.49
611	520	0.81	40044	62.44	658	259	0.40	59330	92.51	705	19	0.03	63820	99.52
612	533	0.83	40577	63.27	659	233	0.36	59563	92.88	706	24	0.04	63844	99.55
613	506	0.79	41083	64.06	660	204	0.32	59767	93.20	707	18	0.03	63862	99.58
614	504	0.79	41587	64.85	661	222	0.35	59989	93.54	708	18	0.03	63880	99.61
615	551	0.86	42138	65.71	662	204	0.32	60193	93.86	709	18	0.03	63898	99.64
616	532	0.83	42670	66.54	663	203	0.32	60396	94.18	710	14	0.02	63912	99.66
617	540	0.84	43210	67.38	664	197	0.31	60593	94.48	711	19	0.03	63931	99.69
618	546	0.85	43756	68.23	665	177	0.28	60770	94.76	712	9	0.01	63940	99.70
619	547	0.85	44303	69.08	666	170	0.27	60940	95.02	713	12	0.02	63952	99.72
620	525	0.82	44828	69.90	667	177	0.28	61117	95.30	714	14	0.02	63966	99.74
621	515	0.80	45343	70.70	668	145	0.23	61262	95.53	715	10	0.02	63976	99.76
622	504	0.79	45847	71.49	669	142	0.22	61404	95.75	716	11	0.02	63987	99.78
623	486	0.76	46333	72.25	670	144	0.22	61548	95.97	717	9	0.01	63996	99.79
624	458	0.71	46791	72.96	671	121	0.19	61669	96.16	718	8	0.01	64004	99.80
625	514	0.80	47305	73.76	672	131	0.20	61800	96.37	719	10	0.02	64014	99.82
626	505	0.79	47810	74.55	673	128	0.20	61928	96.56	720	9	0.01	64023	99.83
627	482	0.75	48292	75.30	674	128	0.20	62056	96.76	721	7	0.01	64030	99.84
628	497	0.77	48789	76.08	675	126	0.20	62182	96.96	722	8	0.01	64038	99.85
629	492	0.77	49281	76.84	676	111	0.17	62293	97.13	723	4	0.01	64042	99.86
630	429	0.67	49710	77.51	677	110	0.17	62403	97.31	724	6	0.01	64048	99.87
631	420	0.65	50130	78.17	678	91	0.14	62494	97.45	725	6	0.01	64054	99.88
632	459	0.72	50589	78.88	679	84	0.13	62578	97.58	726	3	0.00	64057	99.88
633	447	0.70	51036	79.58	680	92	0.14	62670	97.72	727	5	0.01	64062	99.89
634	416	0.65	51452	80.23	681	86	0.13	62756	97.86	728	3	0.00	64065	99.90
635	448	0.70	51900	80.93	682	75	0.12	62831	97.97	729	3	0.00	64068	99.90
636	367	0.57	52267	81.50	683	72	0.11	62903	98.09	730	7	0.01	64075	99.91
637	392	0.61	52659	82.11	684	73	0.11	62976	98.20	731	1	0.00	64076	99.91
638	374	0.58	53033	82.69	685	70	0.11	63046	98.31	732	4	0.01	64080	99.92
639	397	0.62	53430	83.31	686	74	0.12	63120	98.42	733	3	0.00	64083	99.93
640	372	0.58	53802	83.89	687	74	0.12	63194	98.54	734	5	0.01	64088	99.93
641	375	0.58	54177	84.48	688	50	0.08	63244	98.62	735	2	0.00	64090	99.94
642	397	0.62	54574	85.10	689	53	0.08	63297	98.70	736	5	0.01	64095	99.94
643	367	0.57	54941	85.67	690	57	0.09	63354	98.79	737	3	0.00	64098	99.95
644	340	0.53	55281	86.20	691	44	0.07	63398	98.86	738	1	0.00	64099	99.95
645	378	0.59	55659	86.79	692	50	0.08	63448	98.93	740	1	0.00	64100	99.95
646	346	0.54	56005	87.33	693	36	0.06	63484	98.99	741	4	0.01	64104	99.96
647	316	0.49	56321	87.82	694	49	0.08	63533	99.07	742	1	0.00	64105	99.96
648	297	0.46	56618	88.28	695	47	0.07	63580	99.14	743	1	0.00	64106	99.96
649	305	0.48	56923	88.76	696	35	0.05	63615	99.20	744	2	0.00	64108	99.96
650	297	0.46	57220	89.22	697	29	0.05	63644	99.24	745	1	0.00	64109	99.97

**Table 148. Scale Score Distribution, Reading Grade 4 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>
746	2	0.00	64111	99.97
747	2	0.00	64113	99.97
750	2	0.00	64115	99.98
751	1	0.00	64116	99.98
752	1	0.00	64117	99.98
753	3	0.00	64120	99.98
755	2	0.00	64122	99.99
757	1	0.00	64123	99.99
759	1	0.00	64124	99.99
763	1	0.00	64125	99.99
767	1	0.00	64126	99.99
769	1	0.00	64127	99.99
773	1	0.00	64128	100.00
779	1	0.00	64129	100.00
808	1	0.00	64130	100.00
940	1	0.00	64131	100.00

**Table 149. Scale Score Distribution, Reading Grade 4 (Spanish)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
314	1	0.65	1	0.65	519	2	1.31	70	45.75	602	2	1.31	152	99.35
368	1	0.65	2	1.31	522	2	1.31	72	47.06	605	1	0.65	153	100.00
376	1	0.65	3	1.96	523	2	1.31	74	48.37					
383	1	0.65	4	2.61	525	2	1.31	76	49.67					
400	1	0.65	5	3.27	526	1	0.65	77	50.33					
415	1	0.65	6	3.92	527	1	0.65	78	50.98					
425	1	0.65	7	4.58	528	1	0.65	79	51.63					
441	1	0.65	8	5.23	529	1	0.65	80	52.29					
442	1	0.65	9	5.88	530	3	1.96	83	54.25					
452	1	0.65	10	6.54	532	2	1.31	85	55.56					
453	1	0.65	11	7.19	533	2	1.31	87	56.86					
462	1	0.65	12	7.84	534	2	1.31	89	58.17					
464	1	0.65	13	8.50	536	1	0.65	90	58.82					
469	2	1.31	15	9.80	537	4	2.61	94	61.44					
470	1	0.65	16	10.46	539	1	0.65	95	62.09					
472	2	1.31	18	11.76	540	3	1.96	98	64.05					
473	1	0.65	19	12.42	541	2	1.31	100	65.36					
475	1	0.65	20	13.07	542	1	0.65	101	66.01					
476	1	0.65	21	13.73	544	2	1.31	103	67.32					
477	1	0.65	22	14.38	545	1	0.65	104	67.97					
481	1	0.65	23	15.03	546	1	0.65	105	68.63					
482	2	1.31	25	16.34	547	1	0.65	106	69.28					
485	2	1.31	27	17.65	548	2	1.31	108	70.59					
486	1	0.65	28	18.30	549	2	1.31	110	71.90					
488	2	1.31	30	19.61	550	1	0.65	111	72.55					
489	1	0.65	31	20.26	552	1	0.65	112	73.20					
490	1	0.65	32	20.92	554	1	0.65	113	73.86					
492	2	1.31	34	22.22	555	5	3.27	118	77.12					
493	3	1.96	37	24.18	556	2	1.31	120	78.43					
494	1	0.65	38	24.84	557	3	1.96	123	80.39					
495	1	0.65	39	25.49	558	2	1.31	125	81.70					
496	2	1.31	41	26.80	562	1	0.65	126	82.35					
497	3	1.96	44	28.76	565	3	1.96	129	84.31					
498	3	1.96	47	30.72	567	3	1.96	132	86.27					
499	1	0.65	48	31.37	569	3	1.96	135	88.24					
503	2	1.31	50	32.68	570	2	1.31	137	89.54					
504	1	0.65	51	33.33	571	1	0.65	138	90.20					
506	2	1.31	53	34.64	573	1	0.65	139	90.85					
507	3	1.96	56	36.60	575	1	0.65	140	91.50					
508	1	0.65	57	37.25	576	2	1.31	142	92.81					
510	1	0.65	58	37.91	577	1	0.65	143	93.46					
511	1	0.65	59	38.56	582	1	0.65	144	94.12					
512	1	0.65	60	39.22	583	2	1.31	146	95.42					
514	1	0.65	61	39.87	585	1	0.65	147	96.08					
515	1	0.65	62	40.52	589	1	0.65	148	96.73					
516	2	1.31	64	41.83	591	1	0.65	149	97.39					
517	4	2.61	68	44.44	592	1	0.65	150	98.04					

**Table 150. Scale Score Distribution, Writing Grade 4**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
190	22	0.03	22	0.03	305	1	0.00	104	0.16	352	12	0.02	514	0.80
234	1	0.00	23	0.04	306	4	0.01	108	0.17	353	18	0.03	532	0.83
237	1	0.00	24	0.04	307	4	0.01	112	0.17	354	25	0.04	557	0.87
239	1	0.00	25	0.04	308	3	0.00	115	0.18	355	15	0.02	572	0.89
240	2	0.00	27	0.04	309	1	0.00	116	0.18	356	26	0.04	598	0.93
241	1	0.00	28	0.04	310	2	0.00	118	0.18	357	30	0.05	628	0.98
246	2	0.00	30	0.05	311	1	0.00	119	0.19	358	27	0.04	655	1.02
248	1	0.00	31	0.05	312	5	0.01	124	0.19	359	23	0.04	678	1.06
250	1	0.00	32	0.05	313	3	0.00	127	0.20	360	27	0.04	705	1.10
251	2	0.00	34	0.05	314	2	0.00	129	0.20	361	27	0.04	732	1.14
252	1	0.00	35	0.05	315	3	0.00	132	0.21	362	32	0.05	764	1.19
254	1	0.00	36	0.06	316	2	0.00	134	0.21	363	28	0.04	792	1.24
255	2	0.00	38	0.06	317	4	0.01	138	0.22	364	36	0.06	828	1.29
256	2	0.00	40	0.06	318	6	0.01	144	0.22	365	30	0.05	858	1.34
258	1	0.00	41	0.06	319	4	0.01	148	0.23	366	37	0.06	895	1.40
259	2	0.00	43	0.07	320	5	0.01	153	0.24	367	31	0.05	926	1.44
261	1	0.00	44	0.07	321	6	0.01	159	0.25	368	34	0.05	960	1.50
262	1	0.00	45	0.07	322	4	0.01	163	0.25	369	32	0.05	992	1.55
264	1	0.00	46	0.07	323	3	0.00	166	0.26	370	41	0.06	1033	1.61
268	1	0.00	47	0.07	324	5	0.01	171	0.27	371	36	0.06	1069	1.67
272	1	0.00	48	0.07	325	4	0.01	175	0.27	372	34	0.05	1103	1.72
273	1	0.00	49	0.08	326	11	0.02	186	0.29	373	47	0.07	1150	1.79
278	3	0.00	52	0.08	327	12	0.02	198	0.31	374	40	0.06	1190	1.86
279	2	0.00	54	0.08	328	7	0.01	205	0.32	375	37	0.06	1227	1.91
280	1	0.00	55	0.09	329	6	0.01	211	0.33	376	48	0.07	1275	1.99
281	2	0.00	57	0.09	330	12	0.02	223	0.35	377	56	0.09	1331	2.08
282	1	0.00	58	0.09	331	7	0.01	230	0.36	378	47	0.07	1378	2.15
283	2	0.00	60	0.09	332	6	0.01	236	0.37	379	51	0.08	1429	2.23
284	2	0.00	62	0.10	333	10	0.02	246	0.38	380	54	0.08	1483	2.31
285	1	0.00	63	0.10	334	13	0.02	259	0.40	381	61	0.10	1544	2.41
286	2	0.00	65	0.10	335	9	0.01	268	0.42	382	56	0.09	1600	2.50
289	2	0.00	67	0.10	336	7	0.01	275	0.43	383	65	0.10	1665	2.60
290	2	0.00	69	0.11	337	10	0.02	285	0.44	384	64	0.10	1729	2.70
291	2	0.00	71	0.11	338	4	0.01	289	0.45	385	52	0.08	1781	2.78
292	3	0.00	74	0.12	339	10	0.02	299	0.47	386	69	0.11	1850	2.89
293	5	0.01	79	0.12	340	8	0.01	307	0.48	387	50	0.08	1900	2.96
294	1	0.00	80	0.12	341	9	0.01	316	0.49	388	59	0.09	1959	3.06
295	2	0.00	82	0.13	342	18	0.03	334	0.52	389	53	0.08	2012	3.14
296	2	0.00	84	0.13	343	13	0.02	347	0.54	390	63	0.10	2075	3.24
297	2	0.00	86	0.13	344	10	0.02	357	0.56	391	80	0.12	2155	3.36
298	1	0.00	87	0.14	345	19	0.03	376	0.59	392	71	0.11	2226	3.47
299	4	0.01	91	0.14	346	19	0.03	395	0.62	393	82	0.13	2308	3.60
300	2	0.00	93	0.15	347	18	0.03	413	0.64	394	94	0.15	2402	3.75
301	2	0.00	95	0.15	348	19	0.03	432	0.67	395	82	0.13	2484	3.88
302	1	0.00	96	0.15	349	22	0.03	454	0.71	396	100	0.16	2584	4.03
303	4	0.01	100	0.16	350	27	0.04	481	0.75	397	89	0.14	2673	4.17
304	3	0.00	103	0.16	351	21	0.03	502	0.78	398	86	0.13	2759	4.30







**Table 150. Scale Score Distribution, Writing Grade 4 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>
712	4	0.01	64083	99.98
721	1	0.00	64084	99.98
730	12	0.02	64096	100.00

**Table 151. Scale Score Distribution, Writing Grade 4 (Spanish)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
300	1	0.68	1	0.68	496	2	1.36	66	44.90	560	1	0.68	136	92.52
342	1	0.68	2	1.36	500	1	0.68	67	45.58	563	1	0.68	137	93.20
358	1	0.68	3	2.04	501	2	1.36	69	46.94	564	1	0.68	138	93.88
386	1	0.68	4	2.72	502	2	1.36	71	48.30	568	1	0.68	139	94.56
395	1	0.68	5	3.40	503	2	1.36	73	49.66	571	3	2.04	142	96.60
409	1	0.68	6	4.08	504	3	2.04	76	51.70	572	1	0.68	143	97.28
420	1	0.68	7	4.76	505	1	0.68	77	52.38	575	1	0.68	144	97.96
424	1	0.68	8	5.44	506	1	0.68	78	53.06	582	1	0.68	145	98.64
426	1	0.68	9	6.12	507	2	1.36	80	54.42	586	1	0.68	146	99.32
433	1	0.68	10	6.80	508	1	0.68	81	55.10	587	1	0.68	147	100.00
436	1	0.68	11	7.48	510	1	0.68	82	55.78					
441	1	0.68	12	8.16	511	1	0.68	83	56.46					
442	1	0.68	13	8.84	512	3	2.04	86	58.50					
444	1	0.68	14	9.52	514	3	2.04	89	60.54					
446	1	0.68	15	10.20	515	1	0.68	90	61.22					
450	1	0.68	16	10.88	516	1	0.68	91	61.90					
451	1	0.68	17	11.56	518	1	0.68	92	62.59					
452	1	0.68	18	12.24	519	1	0.68	93	63.27					
453	1	0.68	19	12.93	520	1	0.68	94	63.95					
456	2	1.36	21	14.29	521	1	0.68	95	64.63					
458	3	2.04	24	16.33	522	1	0.68	96	65.31					
460	1	0.68	25	17.01	523	3	2.04	99	67.35					
461	1	0.68	26	17.69	526	1	0.68	100	68.03					
462	3	2.04	29	19.73	528	1	0.68	101	68.71					
463	1	0.68	30	20.41	529	1	0.68	102	69.39					
466	3	2.04	33	22.45	531	1	0.68	103	70.07					
467	2	1.36	35	23.81	532	2	1.36	105	71.43					
468	1	0.68	36	24.49	534	1	0.68	106	72.11					
469	1	0.68	37	25.17	535	1	0.68	107	72.79					
470	2	1.36	39	26.53	536	1	0.68	108	73.47					
471	1	0.68	40	27.21	537	1	0.68	109	74.15					
472	1	0.68	41	27.89	538	3	2.04	112	76.19					
473	1	0.68	42	28.57	539	2	1.36	114	77.55					
475	1	0.68	43	29.25	541	2	1.36	116	78.91					
476	1	0.68	44	29.93	542	1	0.68	117	79.59					
477	1	0.68	45	30.61	543	2	1.36	119	80.95					
479	1	0.68	46	31.29	544	1	0.68	120	81.63					
481	1	0.68	47	31.97	546	2	1.36	122	82.99					
482	1	0.68	48	32.65	548	1	0.68	123	83.67					
483	1	0.68	49	33.33	549	2	1.36	125	85.03					
484	1	0.68	50	34.01	550	1	0.68	126	85.71					
485	2	1.36	52	35.37	551	1	0.68	127	86.39					
487	3	2.04	55	37.41	553	1	0.68	128	87.07					
489	2	1.36	57	38.78	554	1	0.68	129	87.76					
491	1	0.68	58	39.46	556	3	2.04	132	89.80					
492	5	3.40	63	42.86	558	2	1.36	134	91.16					
494	1	0.68	64	43.54	559	1	0.68	135	91.84					

**Table 152. Scale Score Distribution, Mathematics Grade 4**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
180	130	0.20	130	0.20	231	3	0.00	276	0.43	278	14	0.02	694	1.08
181	2	0.00	132	0.21	232	9	0.01	285	0.44	279	15	0.02	709	1.10
182	2	0.00	134	0.21	233	4	0.01	289	0.45	280	8	0.01	717	1.11
183	1	0.00	135	0.21	234	7	0.01	296	0.46	281	17	0.03	734	1.14
184	2	0.00	137	0.21	235	8	0.01	304	0.47	282	24	0.04	758	1.18
186	4	0.01	141	0.22	236	2	0.00	306	0.48	283	15	0.02	773	1.20
187	2	0.00	143	0.22	237	4	0.01	310	0.48	284	15	0.02	788	1.23
188	2	0.00	145	0.23	238	6	0.01	316	0.49	285	13	0.02	801	1.25
189	3	0.00	148	0.23	239	4	0.01	320	0.50	286	17	0.03	818	1.27
190	2	0.00	150	0.23	240	7	0.01	327	0.51	287	18	0.03	836	1.30
191	4	0.01	154	0.24	241	8	0.01	335	0.52	288	11	0.02	847	1.32
192	2	0.00	156	0.24	242	5	0.01	340	0.53	289	12	0.02	859	1.34
194	1	0.00	157	0.24	243	9	0.01	349	0.54	290	18	0.03	877	1.36
195	3	0.00	160	0.25	244	9	0.01	358	0.56	291	15	0.02	892	1.39
196	3	0.00	163	0.25	245	5	0.01	363	0.56	292	18	0.03	910	1.41
197	2	0.00	165	0.26	246	9	0.01	372	0.58	293	15	0.02	925	1.44
198	4	0.01	169	0.26	247	5	0.01	377	0.59	294	21	0.03	946	1.47
200	3	0.00	172	0.27	248	2	0.00	379	0.59	295	23	0.04	969	1.51
201	2	0.00	174	0.27	249	4	0.01	383	0.60	296	21	0.03	990	1.54
203	3	0.00	177	0.28	250	5	0.01	388	0.60	297	11	0.02	1001	1.56
204	1	0.00	178	0.28	251	6	0.01	394	0.61	298	20	0.03	1021	1.59
205	2	0.00	180	0.28	252	5	0.01	399	0.62	299	13	0.02	1034	1.61
206	4	0.01	184	0.29	253	12	0.02	411	0.64	300	24	0.04	1058	1.64
207	1	0.00	185	0.29	254	11	0.02	422	0.66	301	20	0.03	1078	1.68
208	2	0.00	187	0.29	255	6	0.01	428	0.67	302	25	0.04	1103	1.71
209	3	0.00	190	0.30	256	9	0.01	437	0.68	303	21	0.03	1124	1.75
210	5	0.01	195	0.30	257	9	0.01	446	0.69	304	22	0.03	1146	1.78
211	1	0.00	196	0.30	258	8	0.01	454	0.71	305	13	0.02	1159	1.80
212	2	0.00	198	0.31	259	14	0.02	468	0.73	306	19	0.03	1178	1.83
213	4	0.01	202	0.31	260	12	0.02	480	0.75	307	34	0.05	1212	1.88
214	2	0.00	204	0.32	261	16	0.02	496	0.77	308	31	0.05	1243	1.93
215	5	0.01	209	0.32	262	5	0.01	501	0.78	309	29	0.05	1272	1.98
216	4	0.01	213	0.33	263	10	0.02	511	0.79	310	35	0.05	1307	2.03
217	1	0.00	214	0.33	264	13	0.02	524	0.81	311	19	0.03	1326	2.06
218	6	0.01	220	0.34	265	15	0.02	539	0.84	312	28	0.04	1354	2.11
219	2	0.00	222	0.35	266	11	0.02	550	0.86	313	32	0.05	1386	2.15
220	2	0.00	224	0.35	267	10	0.02	560	0.87	314	22	0.03	1408	2.19
221	2	0.00	226	0.35	268	11	0.02	571	0.89	315	24	0.04	1432	2.23
222	2	0.00	228	0.35	269	13	0.02	584	0.91	316	28	0.04	1460	2.27
223	5	0.01	233	0.36	270	14	0.02	598	0.93	317	27	0.04	1487	2.31
224	2	0.00	235	0.37	271	13	0.02	611	0.95	318	25	0.04	1512	2.35
225	6	0.01	241	0.37	272	7	0.01	618	0.96	319	32	0.05	1544	2.40
226	6	0.01	247	0.38	273	12	0.02	630	0.98	320	23	0.04	1567	2.44
227	8	0.01	255	0.40	274	10	0.02	640	1.00	321	31	0.05	1598	2.48
228	7	0.01	262	0.41	275	15	0.02	655	1.02	322	51	0.08	1649	2.56
229	5	0.01	267	0.42	276	14	0.02	669	1.04	323	44	0.07	1693	2.63
230	6	0.01	273	0.42	277	11	0.02	680	1.06	324	41	0.06	1734	2.70

**Table 152. Scale Score Distribution, Mathematics Grade 4 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
325	42	0.07	1776	2.76	372	77	0.12	4331	6.73	419	175	0.27	10367	16.12
326	43	0.07	1819	2.83	373	89	0.14	4420	6.87	420	163	0.25	10530	16.37
327	38	0.06	1857	2.89	374	90	0.14	4510	7.01	421	186	0.29	10716	16.66
328	38	0.06	1895	2.95	375	96	0.15	4606	7.16	422	184	0.29	10900	16.95
329	37	0.06	1932	3.00	376	74	0.12	4680	7.28	423	195	0.30	11095	17.25
330	42	0.07	1974	3.07	377	85	0.13	4765	7.41	424	176	0.27	11271	17.52
331	26	0.04	2000	3.11	378	91	0.14	4856	7.55	425	210	0.33	11481	17.85
332	40	0.06	2040	3.17	379	101	0.16	4957	7.71	426	200	0.31	11681	18.16
333	41	0.06	2081	3.24	380	90	0.14	5047	7.85	427	162	0.25	11843	18.41
334	57	0.09	2138	3.32	381	108	0.17	5155	8.01	428	188	0.29	12031	18.70
335	37	0.06	2175	3.38	382	95	0.15	5250	8.16	429	188	0.29	12219	19.00
336	31	0.05	2206	3.43	383	106	0.16	5356	8.33	430	202	0.31	12421	19.31
337	42	0.07	2248	3.50	384	98	0.15	5454	8.48	431	236	0.37	12657	19.68
338	44	0.07	2292	3.56	385	97	0.15	5551	8.63	432	212	0.33	12869	20.01
339	59	0.09	2351	3.66	386	115	0.18	5666	8.81	433	205	0.32	13074	20.33
340	49	0.08	2400	3.73	387	122	0.19	5788	9.00	434	208	0.32	13282	20.65
341	42	0.07	2442	3.80	388	113	0.18	5901	9.17	435	233	0.36	13515	21.01
342	49	0.08	2491	3.87	389	104	0.16	6005	9.34	436	211	0.33	13726	21.34
343	47	0.07	2538	3.95	390	112	0.17	6117	9.51	437	211	0.33	13937	21.67
344	54	0.08	2592	4.03	391	128	0.20	6245	9.71	438	222	0.35	14159	22.01
345	65	0.10	2657	4.13	392	125	0.19	6370	9.90	439	221	0.34	14380	22.36
346	48	0.07	2705	4.21	393	113	0.18	6483	10.08	440	209	0.32	14589	22.68
347	52	0.08	2757	4.29	394	98	0.15	6581	10.23	441	230	0.36	14819	23.04
348	64	0.10	2821	4.39	395	132	0.21	6713	10.44	442	241	0.37	15060	23.41
349	48	0.07	2869	4.46	396	116	0.18	6829	10.62	443	241	0.37	15301	23.79
350	56	0.09	2925	4.55	397	117	0.18	6946	10.80	444	249	0.39	15550	24.18
351	45	0.07	2970	4.62	398	127	0.20	7073	11.00	445	208	0.32	15758	24.50
352	47	0.07	3017	4.69	399	148	0.23	7221	11.23	446	230	0.36	15988	24.86
353	44	0.07	3061	4.76	400	138	0.21	7359	11.44	447	241	0.37	16229	25.23
354	44	0.07	3105	4.83	401	122	0.19	7481	11.63	448	249	0.39	16478	25.62
355	56	0.09	3161	4.91	402	144	0.22	7625	11.85	449	269	0.42	16747	26.04
356	68	0.11	3229	5.02	403	161	0.25	7786	12.11	450	272	0.42	17019	26.46
357	60	0.09	3289	5.11	404	134	0.21	7920	12.31	451	276	0.43	17295	26.89
358	53	0.08	3342	5.20	405	131	0.20	8051	12.52	452	266	0.41	17561	27.30
359	63	0.10	3405	5.29	406	157	0.24	8208	12.76	453	279	0.43	17840	27.74
360	47	0.07	3452	5.37	407	152	0.24	8360	13.00	454	273	0.42	18113	28.16
361	71	0.11	3523	5.48	408	168	0.26	8528	13.26	455	315	0.49	18428	28.65
362	62	0.10	3585	5.57	409	140	0.22	8668	13.48	456	250	0.39	18678	29.04
363	84	0.13	3669	5.70	410	155	0.24	8823	13.72	457	276	0.43	18954	29.47
364	71	0.11	3740	5.81	411	153	0.24	8976	13.96	458	277	0.43	19231	29.90
365	86	0.13	3826	5.95	412	153	0.24	9129	14.19	459	268	0.42	19499	30.32
366	75	0.12	3901	6.06	413	170	0.26	9299	14.46	460	284	0.44	19783	30.76
367	71	0.11	3972	6.18	414	164	0.25	9463	14.71	461	257	0.40	20040	31.16
368	68	0.11	4040	6.28	415	175	0.27	9638	14.98	462	318	0.49	20358	31.65
369	74	0.12	4114	6.40	416	188	0.29	9826	15.28	463	285	0.44	20643	32.09
370	65	0.10	4179	6.50	417	176	0.27	10002	15.55	464	292	0.45	20935	32.55
371	75	0.12	4254	6.61	418	190	0.30	10192	15.85	465	281	0.44	21216	32.99



**Table 152. Scale Score Distribution, Mathematics Grade 4 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
607	101	0.16	61136	95.05	654	18	0.03	63685	99.01	701	6	0.01	64162	99.75
608	92	0.14	61228	95.19	655	25	0.04	63710	99.05	702	3	0.00	64165	99.76
609	91	0.14	61319	95.33	656	18	0.03	63728	99.08	703	4	0.01	64169	99.77
610	114	0.18	61433	95.51	657	16	0.02	63744	99.10	704	12	0.02	64181	99.78
611	80	0.12	61513	95.64	658	12	0.02	63756	99.12	705	4	0.01	64185	99.79
612	92	0.14	61605	95.78	659	16	0.02	63772	99.15	706	2	0.00	64187	99.79
613	98	0.15	61703	95.93	660	24	0.04	63796	99.19	707	1	0.00	64188	99.79
614	91	0.14	61794	96.07	661	14	0.02	63810	99.21	708	2	0.00	64190	99.80
615	81	0.13	61875	96.20	662	10	0.02	63820	99.22	709	7	0.01	64197	99.81
616	76	0.12	61951	96.32	663	23	0.04	63843	99.26	710	5	0.01	64202	99.82
617	67	0.10	62018	96.42	664	15	0.02	63858	99.28	711	6	0.01	64208	99.83
618	94	0.15	62112	96.57	665	15	0.02	63873	99.31	713	1	0.00	64209	99.83
619	69	0.11	62181	96.67	666	13	0.02	63886	99.33	714	2	0.00	64211	99.83
620	53	0.08	62234	96.76	667	18	0.03	63904	99.35	715	8	0.01	64219	99.84
621	86	0.13	62320	96.89	668	12	0.02	63916	99.37	716	1	0.00	64220	99.84
622	73	0.11	62393	97.00	669	6	0.01	63922	99.38	717	1	0.00	64221	99.85
623	70	0.11	62463	97.11	670	11	0.02	63933	99.40	718	3	0.00	64224	99.85
624	70	0.11	62533	97.22	671	7	0.01	63940	99.41	719	4	0.01	64228	99.86
625	52	0.08	62585	97.30	672	9	0.01	63949	99.42	720	1	0.00	64229	99.86
626	56	0.09	62641	97.39	673	9	0.01	63958	99.44	722	1	0.00	64230	99.86
627	56	0.09	62697	97.48	674	16	0.02	63974	99.46	723	4	0.01	64234	99.87
628	45	0.07	62742	97.55	675	13	0.02	63987	99.48	724	1	0.00	64235	99.87
629	43	0.07	62785	97.61	676	9	0.01	63996	99.50	725	2	0.00	64237	99.87
630	52	0.08	62837	97.69	677	13	0.02	64009	99.52	727	1	0.00	64238	99.87
631	52	0.08	62889	97.78	678	7	0.01	64016	99.53	731	1	0.00	64239	99.87
632	45	0.07	62934	97.85	679	10	0.02	64026	99.54	732	8	0.01	64247	99.89
633	48	0.07	62982	97.92	680	14	0.02	64040	99.56	738	10	0.02	64257	99.90
634	40	0.06	63022	97.98	681	6	0.01	64046	99.57	739	9	0.01	64266	99.92
635	50	0.08	63072	98.06	682	4	0.01	64050	99.58	740	3	0.00	64269	99.92
636	39	0.06	63111	98.12	683	5	0.01	64055	99.59	742	2	0.00	64271	99.92
637	42	0.07	63153	98.19	684	2	0.00	64057	99.59	748	4	0.01	64275	99.93
638	43	0.07	63196	98.25	685	12	0.02	64069	99.61	760	1	0.00	64276	99.93
639	29	0.05	63225	98.30	686	10	0.02	64079	99.63	761	12	0.02	64288	99.95
640	36	0.06	63261	98.35	687	7	0.01	64086	99.64	767	1	0.00	64289	99.95
641	43	0.07	63304	98.42	688	7	0.01	64093	99.65	768	2	0.00	64291	99.95
642	28	0.04	63332	98.46	689	7	0.01	64100	99.66	770	4	0.01	64295	99.96
643	40	0.06	63372	98.53	690	4	0.01	64104	99.66	772	1	0.00	64296	99.96
644	29	0.05	63401	98.57	691	6	0.01	64110	99.67	780	24	0.04	64320	100.00
645	31	0.05	63432	98.62	692	10	0.02	64120	99.69					
646	42	0.07	63474	98.68	693	17	0.03	64137	99.72					
647	24	0.04	63498	98.72	694	2	0.00	64139	99.72					
648	33	0.05	63531	98.77	695	4	0.01	64143	99.72					
649	40	0.06	63571	98.84	696	3	0.00	64146	99.73					
650	28	0.04	63599	98.88	697	3	0.00	64149	99.73					
651	18	0.03	63617	98.91	698	1	0.00	64150	99.74					
652	22	0.03	63639	98.94	699	4	0.01	64154	99.74					
653	28	0.04	63667	98.98	700	2	0.00	64156	99.75					

**Table 153. Scale Score Distribution, Reading Grade 5**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
220	411	0.64	411	0.64	335	2	0.00	479	0.74	384	5	0.01	693	1.07
222	2	0.00	413	0.64	336	4	0.01	483	0.75	385	8	0.01	701	1.09
225	1	0.00	414	0.64	337	2	0.00	485	0.75	386	9	0.01	710	1.10
229	1	0.00	415	0.64	338	2	0.00	487	0.75	387	3	0.00	713	1.10
231	1	0.00	416	0.64	340	3	0.00	490	0.76	388	2	0.00	715	1.11
236	2	0.00	418	0.65	341	3	0.00	493	0.76	389	7	0.01	722	1.12
238	1	0.00	419	0.65	342	3	0.00	496	0.77	390	10	0.02	732	1.13
241	1	0.00	420	0.65	343	6	0.01	502	0.78	391	6	0.01	738	1.14
242	1	0.00	421	0.65	345	4	0.01	506	0.78	392	11	0.02	749	1.16
243	1	0.00	422	0.65	346	1	0.00	507	0.78	393	5	0.01	754	1.17
245	1	0.00	423	0.65	347	6	0.01	513	0.79	394	11	0.02	765	1.18
247	1	0.00	424	0.66	348	4	0.01	517	0.80	395	6	0.01	771	1.19
249	1	0.00	425	0.66	349	3	0.00	520	0.81	396	7	0.01	778	1.20
250	1	0.00	426	0.66	350	6	0.01	526	0.81	397	8	0.01	786	1.22
255	1	0.00	427	0.66	351	7	0.01	533	0.83	398	11	0.02	797	1.23
258	1	0.00	428	0.66	352	2	0.00	535	0.83	399	5	0.01	802	1.24
261	1	0.00	429	0.66	353	4	0.01	539	0.83	400	5	0.01	807	1.25
264	1	0.00	430	0.67	354	3	0.00	542	0.84	401	10	0.02	817	1.26
265	1	0.00	431	0.67	355	3	0.00	545	0.84	402	9	0.01	826	1.28
266	1	0.00	432	0.67	356	4	0.01	549	0.85	403	12	0.02	838	1.30
268	1	0.00	433	0.67	357	3	0.00	552	0.85	404	8	0.01	846	1.31
271	1	0.00	434	0.67	358	6	0.01	558	0.86	405	9	0.01	855	1.32
272	1	0.00	435	0.67	359	5	0.01	563	0.87	406	12	0.02	867	1.34
280	1	0.00	436	0.68	360	3	0.00	566	0.88	407	11	0.02	878	1.36
284	3	0.00	439	0.68	361	6	0.01	572	0.89	408	13	0.02	891	1.38
288	1	0.00	440	0.68	362	4	0.01	576	0.89	409	10	0.02	901	1.40
290	1	0.00	441	0.68	363	8	0.01	584	0.90	410	10	0.02	911	1.41
292	1	0.00	442	0.68	364	5	0.01	589	0.91	411	8	0.01	919	1.42
298	2	0.00	444	0.69	365	6	0.01	595	0.92	412	8	0.01	927	1.44
299	1	0.00	445	0.69	366	5	0.01	600	0.93	413	17	0.03	944	1.46
300	1	0.00	446	0.69	367	2	0.00	602	0.93	414	16	0.02	960	1.49
304	3	0.00	449	0.70	368	3	0.00	605	0.94	415	8	0.01	968	1.50
311	3	0.00	452	0.70	369	1	0.00	606	0.94	416	19	0.03	987	1.53
312	1	0.00	453	0.70	370	5	0.01	611	0.95	417	12	0.02	999	1.55
313	1	0.00	454	0.70	371	5	0.01	616	0.95	418	12	0.02	1011	1.57
314	3	0.00	457	0.71	372	6	0.01	622	0.96	419	20	0.03	1031	1.60
316	3	0.00	460	0.71	373	3	0.00	625	0.97	420	17	0.03	1048	1.62
317	2	0.00	462	0.72	374	5	0.01	630	0.98	421	19	0.03	1067	1.65
320	1	0.00	463	0.72	375	9	0.01	639	0.99	422	23	0.04	1090	1.69
322	1	0.00	464	0.72	376	4	0.01	643	1.00	423	19	0.03	1109	1.72
323	1	0.00	465	0.72	377	5	0.01	648	1.00	424	14	0.02	1123	1.74
325	1	0.00	466	0.72	378	5	0.01	653	1.01	425	15	0.02	1138	1.76
327	2	0.00	468	0.72	379	8	0.01	661	1.02	426	15	0.02	1153	1.79
328	1	0.00	469	0.73	380	8	0.01	669	1.04	427	17	0.03	1170	1.81
330	4	0.01	473	0.73	381	7	0.01	676	1.05	428	26	0.04	1196	1.85
331	2	0.00	475	0.74	382	7	0.01	683	1.06	429	25	0.04	1221	1.89
332	2	0.00	477	0.74	383	5	0.01	688	1.07	430	23	0.04	1244	1.93

**Table 153. Scale Score Distribution, Reading Grade 5 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
431	19	0.03	1263	1.96	478	58	0.09	2737	4.24	525	102	0.16	6198	9.60
432	13	0.02	1276	1.98	479	44	0.07	2781	4.31	526	125	0.19	6323	9.79
433	18	0.03	1294	2.00	480	49	0.08	2830	4.38	527	103	0.16	6426	9.95
434	16	0.02	1310	2.03	481	48	0.07	2878	4.46	528	135	0.21	6561	10.16
435	22	0.03	1332	2.06	482	39	0.06	2917	4.52	529	121	0.19	6682	10.35
436	18	0.03	1350	2.09	483	52	0.08	2969	4.60	530	111	0.17	6793	10.52
437	16	0.02	1366	2.12	484	62	0.10	3031	4.69	531	126	0.20	6919	10.71
438	15	0.02	1381	2.14	485	50	0.08	3081	4.77	532	139	0.22	7058	10.93
439	27	0.04	1408	2.18	486	48	0.07	3129	4.84	533	121	0.19	7179	11.12
440	23	0.04	1431	2.22	487	53	0.08	3182	4.93	534	124	0.19	7303	11.31
441	30	0.05	1461	2.26	488	46	0.07	3228	5.00	535	113	0.17	7416	11.48
442	22	0.03	1483	2.30	489	49	0.08	3277	5.07	536	120	0.19	7536	11.67
443	26	0.04	1509	2.34	490	68	0.11	3345	5.18	537	145	0.22	7681	11.89
444	24	0.04	1533	2.37	491	59	0.09	3404	5.27	538	136	0.21	7817	12.10
445	19	0.03	1552	2.40	492	51	0.08	3455	5.35	539	136	0.21	7953	12.31
446	25	0.04	1577	2.44	493	62	0.10	3517	5.45	540	144	0.22	8097	12.54
447	22	0.03	1599	2.48	494	65	0.10	3582	5.55	541	145	0.22	8242	12.76
448	31	0.05	1630	2.52	495	63	0.10	3645	5.64	542	161	0.25	8403	13.01
449	30	0.05	1660	2.57	496	61	0.09	3706	5.74	543	157	0.24	8560	13.25
450	26	0.04	1686	2.61	497	71	0.11	3777	5.85	544	157	0.24	8717	13.50
451	37	0.06	1723	2.67	498	76	0.12	3853	5.97	545	148	0.23	8865	13.73
452	38	0.06	1761	2.73	499	67	0.10	3920	6.07	546	186	0.29	9051	14.01
453	30	0.05	1791	2.77	500	64	0.10	3984	6.17	547	170	0.26	9221	14.28
454	28	0.04	1819	2.82	501	79	0.12	4063	6.29	548	150	0.23	9371	14.51
455	30	0.05	1849	2.86	502	65	0.10	4128	6.39	549	174	0.27	9545	14.78
456	38	0.06	1887	2.92	503	75	0.12	4203	6.51	550	164	0.25	9709	15.03
457	33	0.05	1920	2.97	504	80	0.12	4283	6.63	551	161	0.25	9870	15.28
458	23	0.04	1943	3.01	505	82	0.13	4365	6.76	552	179	0.28	10049	15.56
459	34	0.05	1977	3.06	506	77	0.12	4442	6.88	553	169	0.26	10218	15.82
460	45	0.07	2022	3.13	507	71	0.11	4513	6.99	554	173	0.27	10391	16.09
461	30	0.05	2052	3.18	508	90	0.14	4603	7.13	555	172	0.27	10563	16.35
462	42	0.07	2094	3.24	509	98	0.15	4701	7.28	556	187	0.29	10750	16.64
463	37	0.06	2131	3.30	510	75	0.12	4776	7.39	557	194	0.30	10944	16.94
464	33	0.05	2164	3.35	511	99	0.15	4875	7.55	558	206	0.32	11150	17.26
465	29	0.04	2193	3.40	512	88	0.14	4963	7.68	559	198	0.31	11348	17.57
466	35	0.05	2228	3.45	513	81	0.13	5044	7.81	560	209	0.32	11557	17.89
467	38	0.06	2266	3.51	514	84	0.13	5128	7.94	561	215	0.33	11772	18.23
468	46	0.07	2312	3.58	515	69	0.11	5197	8.05	562	203	0.31	11975	18.54
469	33	0.05	2345	3.63	516	85	0.13	5282	8.18	563	223	0.35	12198	18.89
470	30	0.05	2375	3.68	517	90	0.14	5372	8.32	564	214	0.33	12412	19.22
471	32	0.05	2407	3.73	518	91	0.14	5463	8.46	565	229	0.35	12641	19.57
472	36	0.06	2443	3.78	519	94	0.15	5557	8.60	566	220	0.34	12861	19.91
473	45	0.07	2488	3.85	520	113	0.17	5670	8.78	567	248	0.38	13109	20.30
474	44	0.07	2532	3.92	521	101	0.16	5771	8.94	568	209	0.32	13318	20.62
475	40	0.06	2572	3.98	522	102	0.16	5873	9.09	569	230	0.36	13548	20.98
476	48	0.07	2620	4.06	523	100	0.15	5973	9.25	570	250	0.39	13798	21.36
477	59	0.09	2679	4.15	524	123	0.19	6096	9.44	571	253	0.39	14051	21.76



**Table 153. Scale Score Distribution, Reading Grade 5 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
572	237	0.37	14288	22.12	619	471	0.73	30881	47.81	666	365	0.57	52040	80.57
573	252	0.39	14540	22.51	620	460	0.71	31341	48.53	667	385	0.60	52425	81.17
574	261	0.40	14801	22.92	621	433	0.67	31774	49.20	668	379	0.59	52804	81.76
575	292	0.45	15093	23.37	622	463	0.72	32237	49.91	669	364	0.56	53168	82.32
576	265	0.41	15358	23.78	623	444	0.69	32681	50.60	670	361	0.56	53529	82.88
577	259	0.40	15617	24.18	624	476	0.74	33157	51.34	671	334	0.52	53863	83.40
578	272	0.42	15889	24.60	625	498	0.77	33655	52.11	672	325	0.50	54188	83.90
579	251	0.39	16140	24.99	626	440	0.68	34095	52.79	673	358	0.55	54546	84.45
580	298	0.46	16438	25.45	627	439	0.68	34534	53.47	674	298	0.46	54844	84.92
581	264	0.41	16702	25.86	628	421	0.65	34955	54.12	675	290	0.45	55134	85.37
582	276	0.43	16978	26.29	629	507	0.78	35462	54.91	676	335	0.52	55469	85.88
583	299	0.46	17277	26.75	630	498	0.77	35960	55.68	677	295	0.46	55764	86.34
584	324	0.50	17601	27.25	631	490	0.76	36450	56.44	678	315	0.49	56079	86.83
585	301	0.47	17902	27.72	632	486	0.75	36936	57.19	679	285	0.44	56364	87.27
586	320	0.50	18222	28.21	633	452	0.70	37388	57.89	680	276	0.43	56640	87.70
587	310	0.48	18532	28.69	634	461	0.71	37849	58.60	681	305	0.47	56945	88.17
588	310	0.48	18842	29.17	635	442	0.68	38291	59.29	682	251	0.39	57196	88.56
589	315	0.49	19157	29.66	636	494	0.76	38785	60.05	683	263	0.41	57459	88.97
590	332	0.51	19489	30.18	637	522	0.81	39307	60.86	684	253	0.39	57712	89.36
591	363	0.56	19852	30.74	638	496	0.77	39803	61.63	685	253	0.39	57965	89.75
592	345	0.53	20197	31.27	639	457	0.71	40260	62.34	686	258	0.40	58223	90.15
593	376	0.58	20573	31.85	640	453	0.70	40713	63.04	687	244	0.38	58467	90.53
594	355	0.55	20928	32.40	641	472	0.73	41185	63.77	688	259	0.40	58726	90.93
595	388	0.60	21316	33.00	642	470	0.73	41655	64.50	689	217	0.34	58943	91.26
596	373	0.58	21689	33.58	643	455	0.70	42110	65.20	690	239	0.37	59182	91.63
597	353	0.55	22042	34.13	644	447	0.69	42557	65.89	691	196	0.30	59378	91.94
598	337	0.52	22379	34.65	645	450	0.70	43007	66.59	692	199	0.31	59577	92.24
599	384	0.59	22763	35.24	646	441	0.68	43448	67.27	693	197	0.31	59774	92.55
600	373	0.58	23136	35.82	647	456	0.71	43904	67.98	694	215	0.33	59989	92.88
601	342	0.53	23478	36.35	648	484	0.75	44388	68.73	695	210	0.33	60199	93.21
602	374	0.58	23852	36.93	649	493	0.76	44881	69.49	696	170	0.26	60369	93.47
603	389	0.60	24241	37.53	650	474	0.73	45355	70.22	697	193	0.30	60562	93.77
604	380	0.59	24621	38.12	651	460	0.71	45815	70.94	698	169	0.26	60731	94.03
605	411	0.64	25032	38.76	652	419	0.65	46234	71.59	699	198	0.31	60929	94.34
606	414	0.64	25446	39.40	653	478	0.74	46712	72.33	700	171	0.26	61100	94.60
607	415	0.64	25861	40.04	654	408	0.63	47120	72.96	701	149	0.23	61249	94.83
608	405	0.63	26266	40.67	655	429	0.66	47549	73.62	702	150	0.23	61399	95.07
609	386	0.60	26652	41.27	656	435	0.67	47984	74.29	703	133	0.21	61532	95.27
610	368	0.57	27020	41.84	657	417	0.65	48401	74.94	704	143	0.22	61675	95.49
611	414	0.64	27434	42.48	658	414	0.64	48815	75.58	705	123	0.19	61798	95.68
612	412	0.64	27846	43.11	659	414	0.64	49229	76.22	706	123	0.19	61921	95.87
613	423	0.65	28269	43.77	660	424	0.66	49653	76.88	707	115	0.18	62036	96.05
614	426	0.66	28695	44.43	661	382	0.59	50035	77.47	708	127	0.20	62163	96.25
615	395	0.61	29090	45.04	662	441	0.68	50476	78.15	709	121	0.19	62284	96.44
616	426	0.66	29516	45.70	663	413	0.64	50889	78.79	710	98	0.15	62382	96.59
617	430	0.67	29946	46.37	664	405	0.63	51294	79.42	711	106	0.16	62488	96.75
618	464	0.72	30410	47.08	665	381	0.59	51675	80.01	712	110	0.17	62598	96.92

**Table 153. Scale Score Distribution, Reading Grade 5 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
713	103	0.16	62701	97.08	760	10	0.02	64458	99.80
714	92	0.14	62793	97.22	761	8	0.01	64466	99.81
715	99	0.15	62892	97.38	762	6	0.01	64472	99.82
716	77	0.12	62969	97.50	763	11	0.02	64483	99.84
717	69	0.11	63038	97.60	764	7	0.01	64490	99.85
718	70	0.11	63108	97.71	765	5	0.01	64495	99.86
719	70	0.11	63178	97.82	766	7	0.01	64502	99.87
720	78	0.12	63256	97.94	767	4	0.01	64506	99.88
721	85	0.13	63341	98.07	768	10	0.02	64516	99.89
722	67	0.10	63408	98.18	769	7	0.01	64523	99.90
723	60	0.09	63468	98.27	770	5	0.01	64528	99.91
724	58	0.09	63526	98.36	771	3	0.00	64531	99.91
725	56	0.09	63582	98.45	772	2	0.00	64533	99.92
726	46	0.07	63628	98.52	773	1	0.00	64534	99.92
727	37	0.06	63665	98.57	774	1	0.00	64535	99.92
728	61	0.09	63726	98.67	775	2	0.00	64537	99.92
729	50	0.08	63776	98.75	777	2	0.00	64539	99.93
730	43	0.07	63819	98.81	778	4	0.01	64543	99.93
731	43	0.07	63862	98.88	779	3	0.00	64546	99.94
732	33	0.05	63895	98.93	780	6	0.01	64552	99.95
733	42	0.07	63937	99.00	782	4	0.01	64556	99.95
734	36	0.06	63973	99.05	783	3	0.00	64559	99.96
735	36	0.06	64009	99.11	784	1	0.00	64560	99.96
736	33	0.05	64042	99.16	785	1	0.00	64561	99.96
737	34	0.05	64076	99.21	786	1	0.00	64562	99.96
738	27	0.04	64103	99.25	787	2	0.00	64564	99.97
739	26	0.04	64129	99.29	788	1	0.00	64565	99.97
740	34	0.05	64163	99.35	789	1	0.00	64566	99.97
741	29	0.04	64192	99.39	790	1	0.00	64567	99.97
742	28	0.04	64220	99.43	792	2	0.00	64569	99.97
743	19	0.03	64239	99.46	793	1	0.00	64570	99.98
744	17	0.03	64256	99.49	794	2	0.00	64572	99.98
745	16	0.02	64272	99.51	795	1	0.00	64573	99.98
746	20	0.03	64292	99.54	796	1	0.00	64574	99.98
747	19	0.03	64311	99.57	797	1	0.00	64575	99.98
748	16	0.02	64327	99.60	798	2	0.00	64577	99.99
749	23	0.04	64350	99.63	800	1	0.00	64578	99.99
750	10	0.02	64360	99.65	801	1	0.00	64579	99.99
751	10	0.02	64370	99.67	805	1	0.00	64580	99.99
752	14	0.02	64384	99.69	806	1	0.00	64581	99.99
753	9	0.01	64393	99.70	811	1	0.00	64582	99.99
754	11	0.02	64404	99.72	822	1	0.00	64583	100.00
755	14	0.02	64418	99.74	837	1	0.00	64584	100.00
756	8	0.01	64426	99.75	842	1	0.00	64585	100.00
757	5	0.01	64431	99.76	843	1	0.00	64586	100.00
758	12	0.02	64443	99.78					
759	5	0.01	64448	99.79					

**Table 154. Scale Score Distribution, Writing Grade 5**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
220	22	0.03	22	0.03	292	1	0.00	99	0.15	343	14	0.02	297	0.46
221	2	0.00	24	0.04	293	1	0.00	100	0.15	344	14	0.02	311	0.48
222	2	0.00	26	0.04	295	4	0.01	104	0.16	345	11	0.02	322	0.50
224	1	0.00	27	0.04	296	1	0.00	105	0.16	346	15	0.02	337	0.52
225	1	0.00	28	0.04	297	3	0.00	108	0.17	347	16	0.02	353	0.55
226	2	0.00	30	0.05	298	4	0.01	112	0.17	348	11	0.02	364	0.56
227	1	0.00	31	0.05	299	2	0.00	114	0.18	349	8	0.01	372	0.58
230	2	0.00	33	0.05	300	4	0.01	118	0.18	350	10	0.02	382	0.59
231	1	0.00	34	0.05	301	2	0.00	120	0.19	351	15	0.02	397	0.61
232	1	0.00	35	0.05	302	4	0.01	124	0.19	352	13	0.02	410	0.63
239	1	0.00	36	0.06	303	2	0.00	126	0.20	353	17	0.03	427	0.66
241	1	0.00	37	0.06	305	3	0.00	129	0.20	354	16	0.02	443	0.69
243	1	0.00	38	0.06	306	2	0.00	131	0.20	355	8	0.01	451	0.70
245	1	0.00	39	0.06	307	1	0.00	132	0.20	356	16	0.02	467	0.72
249	1	0.00	40	0.06	308	4	0.01	136	0.21	357	8	0.01	475	0.74
250	2	0.00	42	0.07	310	1	0.00	137	0.21	358	13	0.02	488	0.76
251	1	0.00	43	0.07	311	4	0.01	141	0.22	359	22	0.03	510	0.79
253	1	0.00	44	0.07	312	5	0.01	146	0.23	360	9	0.01	519	0.80
254	2	0.00	46	0.07	313	1	0.00	147	0.23	361	22	0.03	541	0.84
255	1	0.00	47	0.07	314	3	0.00	150	0.23	362	20	0.03	561	0.87
257	3	0.00	50	0.08	315	3	0.00	153	0.24	363	20	0.03	581	0.90
258	1	0.00	51	0.08	317	7	0.01	160	0.25	364	26	0.04	607	0.94
259	3	0.00	54	0.08	318	2	0.00	162	0.25	365	29	0.04	636	0.98
260	1	0.00	55	0.09	319	4	0.01	166	0.26	366	32	0.05	668	1.03
261	2	0.00	57	0.09	320	4	0.01	170	0.26	367	33	0.05	701	1.09
263	1	0.00	58	0.09	321	5	0.01	175	0.27	368	18	0.03	719	1.11
264	5	0.01	63	0.10	322	3	0.00	178	0.28	369	24	0.04	743	1.15
265	2	0.00	65	0.10	323	4	0.01	182	0.28	370	18	0.03	761	1.18
266	1	0.00	66	0.10	324	4	0.01	186	0.29	371	28	0.04	789	1.22
267	1	0.00	67	0.10	325	7	0.01	193	0.30	372	33	0.05	822	1.27
270	2	0.00	69	0.11	326	4	0.01	197	0.31	373	25	0.04	847	1.31
272	2	0.00	71	0.11	327	2	0.00	199	0.31	374	37	0.06	884	1.37
273	2	0.00	73	0.11	328	4	0.01	203	0.31	375	29	0.04	913	1.41
274	3	0.00	76	0.12	329	7	0.01	210	0.33	376	32	0.05	945	1.46
275	3	0.00	79	0.12	330	5	0.01	215	0.33	377	27	0.04	972	1.51
276	1	0.00	80	0.12	331	5	0.01	220	0.34	378	32	0.05	1004	1.55
277	2	0.00	82	0.13	332	2	0.00	222	0.34	379	30	0.05	1034	1.60
278	2	0.00	84	0.13	333	3	0.00	225	0.35	380	44	0.07	1078	1.67
279	3	0.00	87	0.13	334	1	0.00	226	0.35	381	43	0.07	1121	1.74
281	1	0.00	88	0.14	335	9	0.01	235	0.36	382	38	0.06	1159	1.79
285	1	0.00	89	0.14	336	6	0.01	241	0.37	383	44	0.07	1203	1.86
286	1	0.00	90	0.14	337	7	0.01	248	0.38	384	50	0.08	1253	1.94
287	2	0.00	92	0.14	338	4	0.01	252	0.39	385	37	0.06	1290	2.00
288	2	0.00	94	0.15	339	9	0.01	261	0.40	386	44	0.07	1334	2.07
289	1	0.00	95	0.15	340	7	0.01	268	0.42	387	46	0.07	1380	2.14
290	1	0.00	96	0.15	341	6	0.01	274	0.42	388	38	0.06	1418	2.20
291	2	0.00	98	0.15	342	9	0.01	283	0.44	389	60	0.09	1478	2.29

**Table 154. Scale Score Distribution, Writing Grade 5 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
390	38	0.06	1516	2.35	437	190	0.29	6935	10.74	484	443	0.69	22495	34.84
391	54	0.08	1570	2.43	438	215	0.33	7150	11.07	485	440	0.68	22935	35.52
392	48	0.07	1618	2.51	439	213	0.33	7363	11.40	486	462	0.72	23397	36.23
393	51	0.08	1669	2.58	440	230	0.36	7593	11.76	487	435	0.67	23832	36.91
394	60	0.09	1729	2.68	441	249	0.39	7842	12.14	488	458	0.71	24290	37.62
395	55	0.09	1784	2.76	442	216	0.33	8058	12.48	489	440	0.68	24730	38.30
396	56	0.09	1840	2.85	443	241	0.37	8299	12.85	490	428	0.66	25158	38.96
397	57	0.09	1897	2.94	444	239	0.37	8538	13.22	491	468	0.72	25626	39.69
398	58	0.09	1955	3.03	445	236	0.37	8774	13.59	492	480	0.74	26106	40.43
399	74	0.11	2029	3.14	446	267	0.41	9041	14.00	493	491	0.76	26597	41.19
400	71	0.11	2100	3.25	447	255	0.39	9296	14.40	494	499	0.77	27096	41.96
401	82	0.13	2182	3.38	448	277	0.43	9573	14.83	495	503	0.78	27599	42.74
402	81	0.13	2263	3.50	449	257	0.40	9830	15.22	496	465	0.72	28064	43.46
403	78	0.12	2341	3.63	450	298	0.46	10128	15.69	497	500	0.77	28564	44.24
404	82	0.13	2423	3.75	451	321	0.50	10449	16.18	498	467	0.72	29031	44.96
405	70	0.11	2493	3.86	452	279	0.43	10728	16.61	499	448	0.69	29479	45.65
406	80	0.12	2573	3.98	453	258	0.40	10986	17.01	500	553	0.86	30032	46.51
407	102	0.16	2675	4.14	454	295	0.46	11281	17.47	501	506	0.78	30538	47.29
408	109	0.17	2784	4.31	455	333	0.52	11614	17.99	502	495	0.77	31033	48.06
409	82	0.13	2866	4.44	456	301	0.47	11915	18.45	503	543	0.84	31576	48.90
410	77	0.12	2943	4.56	457	279	0.43	12194	18.88	504	513	0.79	32089	49.70
411	87	0.13	3030	4.69	458	326	0.50	12520	19.39	505	528	0.82	32617	50.51
412	114	0.18	3144	4.87	459	314	0.49	12834	19.88	506	461	0.71	33078	51.23
413	96	0.15	3240	5.02	460	345	0.53	13179	20.41	507	502	0.78	33580	52.00
414	111	0.17	3351	5.19	461	308	0.48	13487	20.89	508	491	0.76	34071	52.77
415	102	0.16	3453	5.35	462	352	0.55	13839	21.43	509	440	0.68	34511	53.45
416	106	0.16	3559	5.51	463	358	0.55	14197	21.99	510	497	0.77	35008	54.22
417	143	0.22	3702	5.73	464	319	0.49	14516	22.48	511	496	0.77	35504	54.98
418	112	0.17	3814	5.91	465	359	0.56	14875	23.04	512	502	0.78	36006	55.76
419	123	0.19	3937	6.10	466	342	0.53	15217	23.57	513	510	0.79	36516	56.55
420	134	0.21	4071	6.30	467	383	0.59	15600	24.16	514	495	0.77	37011	57.32
421	128	0.20	4199	6.50	468	398	0.62	15998	24.78	515	509	0.79	37520	58.11
422	158	0.24	4357	6.75	469	355	0.55	16353	25.33	516	484	0.75	38004	58.86
423	142	0.22	4499	6.97	470	401	0.62	16754	25.95	517	499	0.77	38503	59.63
424	140	0.22	4639	7.18	471	360	0.56	17114	26.50	518	491	0.76	38994	60.39
425	176	0.27	4815	7.46	472	381	0.59	17495	27.09	519	471	0.73	39465	61.12
426	162	0.25	4977	7.71	473	400	0.62	17895	27.71	520	503	0.78	39968	61.90
427	147	0.23	5124	7.94	474	383	0.59	18278	28.31	521	471	0.73	40439	62.63
428	189	0.29	5313	8.23	475	406	0.63	18684	28.94	522	474	0.73	40913	63.36
429	161	0.25	5474	8.48	476	415	0.64	19099	29.58	523	468	0.72	41381	64.09
430	183	0.28	5657	8.76	477	393	0.61	19492	30.19	524	462	0.72	41843	64.80
431	166	0.26	5823	9.02	478	433	0.67	19925	30.86	525	499	0.77	42342	65.57
432	188	0.29	6011	9.31	479	400	0.62	20325	31.48	526	492	0.76	42834	66.34
433	192	0.30	6203	9.61	480	472	0.73	20797	32.21	527	504	0.78	43338	67.12
434	177	0.27	6380	9.88	481	426	0.66	21223	32.87	528	429	0.66	43767	67.78
435	190	0.29	6570	10.17	482	382	0.59	21605	33.46	529	477	0.74	44244	68.52
436	175	0.27	6745	10.45	483	447	0.69	22052	34.15	530	445	0.69	44689	69.21

**Table 154. Scale Score Distribution, Writing Grade 5 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
531	481	0.74	45170	69.95	578	182	0.28	59777	92.58	625	34	0.05	63761	98.75
532	444	0.69	45614	70.64	579	175	0.27	59952	92.85	626	39	0.06	63800	98.81
533	430	0.67	46044	71.31	580	147	0.23	60099	93.07	627	19	0.03	63819	98.84
534	475	0.74	46519	72.04	581	161	0.25	60260	93.32	628	26	0.04	63845	98.88
535	400	0.62	46919	72.66	582	171	0.26	60431	93.59	629	29	0.04	63874	98.92
536	440	0.68	47359	73.34	583	164	0.25	60595	93.84	630	24	0.04	63898	98.96
537	454	0.70	47813	74.05	584	149	0.23	60744	94.07	631	26	0.04	63924	99.00
538	419	0.65	48232	74.70	585	134	0.21	60878	94.28	632	13	0.02	63937	99.02
539	421	0.65	48653	75.35	586	123	0.19	61001	94.47	633	28	0.04	63965	99.06
540	389	0.60	49042	75.95	587	99	0.15	61100	94.62	634	25	0.04	63990	99.10
541	367	0.57	49409	76.52	588	151	0.23	61251	94.86	635	31	0.05	64021	99.15
542	354	0.55	49763	77.07	589	114	0.18	61365	95.03	636	15	0.02	64036	99.17
543	382	0.59	50145	77.66	590	111	0.17	61476	95.21	637	11	0.02	64047	99.19
544	372	0.58	50517	78.23	591	103	0.16	61579	95.37	638	19	0.03	64066	99.22
545	371	0.57	50888	78.81	592	114	0.18	61693	95.54	639	24	0.04	64090	99.26
546	358	0.55	51246	79.36	593	98	0.15	61791	95.69	640	17	0.03	64107	99.28
547	351	0.54	51597	79.91	594	89	0.14	61880	95.83	641	15	0.02	64122	99.30
548	368	0.57	51965	80.48	595	105	0.16	61985	96.00	642	8	0.01	64130	99.32
549	347	0.54	52312	81.01	596	92	0.14	62077	96.14	643	11	0.02	64141	99.33
550	330	0.51	52642	81.53	597	98	0.15	62175	96.29	644	23	0.04	64164	99.37
551	350	0.54	52992	82.07	598	84	0.13	62259	96.42	645	21	0.03	64185	99.40
552	340	0.53	53332	82.59	599	88	0.14	62347	96.56	646	20	0.03	64205	99.43
553	358	0.55	53690	83.15	600	87	0.13	62434	96.69	647	11	0.02	64216	99.45
554	337	0.52	54027	83.67	601	69	0.11	62503	96.80	648	11	0.02	64227	99.47
555	320	0.50	54347	84.17	602	75	0.12	62578	96.91	649	15	0.02	64242	99.49
556	326	0.50	54673	84.67	603	73	0.11	62651	97.03	650	35	0.05	64277	99.54
557	296	0.46	54969	85.13	604	75	0.12	62726	97.14	651	10	0.02	64287	99.56
558	315	0.49	55284	85.62	605	61	0.09	62787	97.24	652	10	0.02	64297	99.58
559	254	0.39	55538	86.01	606	52	0.08	62839	97.32	653	9	0.01	64306	99.59
560	287	0.44	55825	86.46	607	64	0.10	62903	97.42	654	12	0.02	64318	99.61
561	270	0.42	56095	86.87	608	70	0.11	62973	97.53	655	6	0.01	64324	99.62
562	256	0.40	56351	87.27	609	62	0.10	63035	97.62	656	9	0.01	64333	99.63
563	258	0.40	56609	87.67	610	68	0.11	63103	97.73	657	4	0.01	64337	99.64
564	233	0.36	56842	88.03	611	68	0.11	63171	97.83	658	10	0.02	64347	99.65
565	242	0.37	57084	88.41	612	57	0.09	63228	97.92	659	3	0.00	64350	99.66
566	236	0.37	57320	88.77	613	37	0.06	63265	97.98	660	3	0.00	64353	99.66
567	238	0.37	57558	89.14	614	69	0.11	63334	98.08	661	3	0.00	64356	99.67
568	236	0.37	57794	89.50	615	34	0.05	63368	98.14	662	12	0.02	64368	99.69
569	211	0.33	58005	89.83	616	44	0.07	63412	98.21	663	12	0.02	64380	99.70
570	197	0.31	58202	90.14	617	55	0.09	63467	98.29	664	8	0.01	64388	99.72
571	222	0.34	58424	90.48	618	51	0.08	63518	98.37	665	11	0.02	64399	99.73
572	221	0.34	58645	90.82	619	52	0.08	63570	98.45	666	2	0.00	64401	99.74
573	187	0.29	58832	91.11	620	25	0.04	63595	98.49	667	2	0.00	64403	99.74
574	189	0.29	59021	91.40	621	45	0.07	63640	98.56	668	6	0.01	64409	99.75
575	194	0.30	59215	91.71	622	39	0.06	63679	98.62	669	11	0.02	64420	99.77
576	192	0.30	59407	92.00	623	22	0.03	63701	98.65	670	10	0.02	64430	99.78
577	188	0.29	59595	92.29	624	26	0.04	63727	98.69	671	7	0.01	64437	99.79

**Table 154. Scale Score Distribution, Writing Grade 5 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %
672	5	0.01	64442	99.80
673	7	0.01	64449	99.81
674	1	0.00	64450	99.81
675	1	0.00	64451	99.81
676	5	0.01	64456	99.82
678	4	0.01	64460	99.83
679	5	0.01	64465	99.84
680	1	0.00	64466	99.84
681	2	0.00	64468	99.84
682	6	0.01	64474	99.85
685	3	0.00	64477	99.85
686	1	0.00	64478	99.86
687	2	0.00	64480	99.86
688	4	0.01	64484	99.87
689	4	0.01	64488	99.87
690	9	0.01	64497	99.89
691	7	0.01	64504	99.90
692	8	0.01	64512	99.91
694	2	0.00	64514	99.91
695	2	0.00	64516	99.91
696	1	0.00	64517	99.92
698	6	0.01	64523	99.93
699	6	0.01	64529	99.93
700	1	0.00	64530	99.94
703	2	0.00	64532	99.94
704	1	0.00	64533	99.94
707	1	0.00	64534	99.94
708	1	0.00	64535	99.94
711	1	0.00	64536	99.95
712	2	0.00	64538	99.95
713	1	0.00	64539	99.95
717	3	0.00	64542	99.96
719	1	0.00	64543	99.96
729	2	0.00	64545	99.96
731	2	0.00	64547	99.96
733	4	0.01	64551	99.97
735	4	0.01	64555	99.98
736	1	0.00	64556	99.98
750	7	0.01	64563	99.99
751	2	0.00	64565	99.99
757	1	0.00	64566	99.99
759	3	0.00	64569	100.00
780	2	0.00	64571	100.00

**Table 155. Scale Score Distribution, Mathematics Grade 5**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
220	76	0.12	76	0.12	281	9	0.01	215	0.33	328	10	0.02	605	0.94
221	1	0.00	77	0.12	282	5	0.01	220	0.34	329	16	0.02	621	0.96
222	3	0.00	80	0.12	283	7	0.01	227	0.35	330	21	0.03	642	0.99
223	1	0.00	81	0.13	284	3	0.00	230	0.36	331	15	0.02	657	1.02
225	3	0.00	84	0.13	285	6	0.01	236	0.37	332	19	0.03	676	1.05
228	1	0.00	85	0.13	286	4	0.01	240	0.37	333	17	0.03	693	1.07
229	2	0.00	87	0.13	287	3	0.00	243	0.38	334	15	0.02	708	1.10
231	1	0.00	88	0.14	288	4	0.01	247	0.38	335	16	0.02	724	1.12
232	1	0.00	89	0.14	289	3	0.00	250	0.39	336	28	0.04	752	1.16
234	2	0.00	91	0.14	290	9	0.01	259	0.40	337	21	0.03	773	1.20
235	2	0.00	93	0.14	291	6	0.01	265	0.41	338	17	0.03	790	1.22
239	2	0.00	95	0.15	292	4	0.01	269	0.42	339	23	0.04	813	1.26
240	1	0.00	96	0.15	293	2	0.00	271	0.42	340	25	0.04	838	1.30
241	2	0.00	98	0.15	294	4	0.01	275	0.43	341	21	0.03	859	1.33
242	3	0.00	101	0.16	295	5	0.01	280	0.43	342	21	0.03	880	1.36
243	3	0.00	104	0.16	296	6	0.01	286	0.44	343	24	0.04	904	1.40
245	6	0.01	110	0.17	297	8	0.01	294	0.45	344	14	0.02	918	1.42
246	1	0.00	111	0.17	298	2	0.00	296	0.46	345	27	0.04	945	1.46
248	1	0.00	112	0.17	299	5	0.01	301	0.47	346	15	0.02	960	1.48
250	2	0.00	114	0.18	300	7	0.01	308	0.48	347	28	0.04	988	1.53
251	2	0.00	116	0.18	301	8	0.01	316	0.49	348	36	0.06	1024	1.58
252	2	0.00	118	0.18	302	6	0.01	322	0.50	349	22	0.03	1046	1.62
253	6	0.01	124	0.19	303	9	0.01	331	0.51	350	29	0.04	1075	1.66
254	3	0.00	127	0.20	304	10	0.02	341	0.53	351	21	0.03	1096	1.70
255	3	0.00	130	0.20	305	12	0.02	353	0.55	352	27	0.04	1123	1.74
256	3	0.00	133	0.21	306	12	0.02	365	0.56	353	22	0.03	1145	1.77
259	1	0.00	134	0.21	307	8	0.01	373	0.58	354	29	0.04	1174	1.82
260	3	0.00	137	0.21	308	13	0.02	386	0.60	355	20	0.03	1194	1.85
261	3	0.00	140	0.22	309	10	0.02	396	0.61	356	32	0.05	1226	1.90
262	2	0.00	142	0.22	310	5	0.01	401	0.62	357	50	0.08	1276	1.97
263	2	0.00	144	0.22	311	8	0.01	409	0.63	358	29	0.04	1305	2.02
264	6	0.01	150	0.23	312	9	0.01	418	0.65	359	31	0.05	1336	2.07
265	4	0.01	154	0.24	313	7	0.01	425	0.66	360	41	0.06	1377	2.13
266	4	0.01	158	0.24	314	14	0.02	439	0.68	361	39	0.06	1416	2.19
268	1	0.00	159	0.25	315	11	0.02	450	0.70	362	31	0.05	1447	2.24
269	1	0.00	160	0.25	316	11	0.02	461	0.71	363	32	0.05	1479	2.29
270	3	0.00	163	0.25	317	11	0.02	472	0.73	364	32	0.05	1511	2.34
271	2	0.00	165	0.26	318	7	0.01	479	0.74	365	38	0.06	1549	2.40
272	1	0.00	166	0.26	319	10	0.02	489	0.76	366	34	0.05	1583	2.45
273	3	0.00	169	0.26	320	10	0.02	499	0.77	367	36	0.06	1619	2.50
274	7	0.01	176	0.27	321	13	0.02	512	0.79	368	44	0.07	1663	2.57
275	4	0.01	180	0.28	322	4	0.01	516	0.80	369	29	0.04	1692	2.62
276	2	0.00	182	0.28	323	17	0.03	533	0.82	370	39	0.06	1731	2.68
277	8	0.01	190	0.29	324	15	0.02	548	0.85	371	41	0.06	1772	2.74
278	3	0.00	193	0.30	325	19	0.03	567	0.88	372	44	0.07	1816	2.81
279	9	0.01	202	0.31	326	11	0.02	578	0.89	373	42	0.06	1858	2.87
280	4	0.01	206	0.32	327	17	0.03	595	0.92	374	54	0.08	1912	2.96

**Table 155. Scale Score Distribution, Mathematics Grade 5 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
375	59	0.09	1971	3.05	422	149	0.23	6217	9.62	469	232	0.36	15564	24.07
376	44	0.07	2015	3.12	423	145	0.22	6362	9.84	470	258	0.40	15822	24.47
377	47	0.07	2062	3.19	424	158	0.24	6520	10.08	471	281	0.43	16103	24.91
378	60	0.09	2122	3.28	425	134	0.21	6654	10.29	472	299	0.46	16402	25.37
379	44	0.07	2166	3.35	426	139	0.22	6793	10.51	473	257	0.40	16659	25.77
380	60	0.09	2226	3.44	427	118	0.18	6911	10.69	474	304	0.47	16963	26.24
381	58	0.09	2284	3.53	428	142	0.22	7053	10.91	475	299	0.46	17262	26.70
382	62	0.10	2346	3.63	429	126	0.19	7179	11.10	476	278	0.43	17540	27.13
383	61	0.09	2407	3.72	430	160	0.25	7339	11.35	477	287	0.44	17827	27.57
384	59	0.09	2466	3.81	431	182	0.28	7521	11.63	478	294	0.45	18121	28.03
385	74	0.11	2540	3.93	432	155	0.24	7676	11.87	479	280	0.43	18401	28.46
386	59	0.09	2599	4.02	433	154	0.24	7830	12.11	480	305	0.47	18706	28.93
387	60	0.09	2659	4.11	434	158	0.24	7988	12.36	481	272	0.42	18978	29.35
388	81	0.13	2740	4.24	435	169	0.26	8157	12.62	482	299	0.46	19277	29.82
389	62	0.10	2802	4.33	436	170	0.26	8327	12.88	483	286	0.44	19563	30.26
390	76	0.12	2878	4.45	437	163	0.25	8490	13.13	484	313	0.48	19876	30.74
391	74	0.11	2952	4.57	438	175	0.27	8665	13.40	485	321	0.50	20197	31.24
392	76	0.12	3028	4.68	439	185	0.29	8850	13.69	486	305	0.47	20502	31.71
393	65	0.10	3093	4.78	440	175	0.27	9025	13.96	487	329	0.51	20831	32.22
394	68	0.11	3161	4.89	441	191	0.30	9216	14.25	488	296	0.46	21127	32.68
395	78	0.12	3239	5.01	442	174	0.27	9390	14.52	489	308	0.48	21435	33.15
396	79	0.12	3318	5.13	443	204	0.32	9594	14.84	490	336	0.52	21771	33.67
397	59	0.09	3377	5.22	444	191	0.30	9785	15.14	491	312	0.48	22083	34.16
398	79	0.12	3456	5.35	445	181	0.28	9966	15.42	492	322	0.50	22405	34.66
399	88	0.14	3544	5.48	446	199	0.31	10165	15.72	493	323	0.50	22728	35.15
400	106	0.16	3650	5.65	447	218	0.34	10383	16.06	494	306	0.47	23034	35.63
401	100	0.15	3750	5.80	448	223	0.34	10606	16.41	495	353	0.55	23387	36.17
402	88	0.14	3838	5.94	449	210	0.32	10816	16.73	496	309	0.48	23696	36.65
403	92	0.14	3930	6.08	450	220	0.34	11036	17.07	497	326	0.50	24022	37.16
404	106	0.16	4036	6.24	451	242	0.37	11278	17.44	498	299	0.46	24321	37.62
405	76	0.12	4112	6.36	452	203	0.31	11481	17.76	499	370	0.57	24691	38.19
406	100	0.15	4212	6.51	453	234	0.36	11715	18.12	500	331	0.51	25022	38.70
407	100	0.15	4312	6.67	454	225	0.35	11940	18.47	501	344	0.53	25366	39.24
408	124	0.19	4436	6.86	455	218	0.34	12158	18.81	502	354	0.55	25720	39.78
409	116	0.18	4552	7.04	456	220	0.34	12378	19.15	503	325	0.50	26045	40.29
410	134	0.21	4686	7.25	457	228	0.35	12606	19.50	504	363	0.56	26408	40.85
411	118	0.18	4804	7.43	458	213	0.33	12819	19.83	505	326	0.50	26734	41.35
412	119	0.18	4923	7.61	459	229	0.35	13048	20.18	506	341	0.53	27075	41.88
413	129	0.20	5052	7.81	460	238	0.37	13286	20.55	507	361	0.56	27436	42.44
414	111	0.17	5163	7.99	461	259	0.40	13545	20.95	508	305	0.47	27741	42.91
415	137	0.21	5300	8.20	462	237	0.37	13782	21.32	509	341	0.53	28082	43.44
416	130	0.20	5430	8.40	463	237	0.37	14019	21.68	510	355	0.55	28437	43.99
417	125	0.19	5555	8.59	464	250	0.39	14269	22.07	511	309	0.48	28746	44.46
418	111	0.17	5666	8.76	465	265	0.41	14534	22.48	512	315	0.49	29061	44.95
419	139	0.22	5805	8.98	466	261	0.40	14795	22.88	513	350	0.54	29411	45.49
420	132	0.20	5937	9.18	467	272	0.42	15067	23.31	514	335	0.52	29746	46.01
421	131	0.20	6068	9.39	468	265	0.41	15332	23.72	515	339	0.52	30085	46.53



**Table 155. Scale Score Distribution, Mathematics Grade 5 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
516	366	0.57	30451	47.10	563	332	0.51	46656	72.17	610	172	0.27	58455	90.42
517	353	0.55	30804	47.65	564	293	0.45	46949	72.62	611	156	0.24	58611	90.66
518	360	0.56	31164	48.20	565	310	0.48	47259	73.10	612	160	0.25	58771	90.91
519	379	0.59	31543	48.79	566	325	0.50	47584	73.60	613	173	0.27	58944	91.17
520	369	0.57	31912	49.36	567	286	0.44	47870	74.04	614	162	0.25	59106	91.42
521	352	0.54	32264	49.90	568	302	0.47	48172	74.51	615	170	0.26	59276	91.69
522	344	0.53	32608	50.44	569	312	0.48	48484	74.99	616	146	0.23	59422	91.91
523	376	0.58	32984	51.02	570	304	0.47	48788	75.46	617	156	0.24	59578	92.15
524	341	0.53	33325	51.55	571	279	0.43	49067	75.90	618	145	0.22	59723	92.38
525	346	0.54	33671	52.08	572	285	0.44	49352	76.34	619	138	0.21	59861	92.59
526	370	0.57	34041	52.65	573	311	0.48	49663	76.82	620	152	0.24	60013	92.83
527	306	0.47	34347	53.13	574	269	0.42	49932	77.23	621	139	0.22	60152	93.04
528	371	0.57	34718	53.70	575	280	0.43	50212	77.67	622	147	0.23	60299	93.27
529	401	0.62	35119	54.32	576	279	0.43	50491	78.10	623	126	0.19	60425	93.46
530	365	0.56	35484	54.89	577	283	0.44	50774	78.54	624	135	0.21	60560	93.67
531	367	0.57	35851	55.45	578	309	0.48	51083	79.01	625	96	0.15	60656	93.82
532	343	0.53	36194	55.98	579	265	0.41	51348	79.42	626	137	0.21	60793	94.03
533	347	0.54	36541	56.52	580	270	0.42	51618	79.84	627	124	0.19	60917	94.22
534	305	0.47	36846	56.99	581	267	0.41	51885	80.25	628	116	0.18	61033	94.40
535	374	0.58	37220	57.57	582	292	0.45	52177	80.71	629	100	0.15	61133	94.56
536	356	0.55	37576	58.12	583	281	0.43	52458	81.14	630	108	0.17	61241	94.73
537	339	0.52	37915	58.65	584	264	0.41	52722	81.55	631	120	0.19	61361	94.91
538	355	0.55	38270	59.19	585	235	0.36	52957	81.91	632	92	0.14	61453	95.05
539	333	0.52	38603	59.71	586	268	0.41	53225	82.33	633	102	0.16	61555	95.21
540	323	0.50	38926	60.21	587	274	0.42	53499	82.75	634	108	0.17	61663	95.38
541	368	0.57	39294	60.78	588	259	0.40	53758	83.15	635	109	0.17	61772	95.55
542	347	0.54	39641	61.32	589	255	0.39	54013	83.55	636	108	0.17	61880	95.71
543	370	0.57	40011	61.89	590	243	0.38	54256	83.92	637	92	0.14	61972	95.86
544	365	0.56	40376	62.45	591	259	0.40	54515	84.32	638	71	0.11	62043	95.97
545	341	0.53	40717	62.98	592	230	0.36	54745	84.68	639	83	0.13	62126	96.09
546	360	0.56	41077	63.54	593	221	0.34	54966	85.02	640	95	0.15	62221	96.24
547	310	0.48	41387	64.02	594	243	0.38	55209	85.40	641	87	0.13	62308	96.38
548	330	0.51	41717	64.53	595	235	0.36	55444	85.76	642	76	0.12	62384	96.49
549	358	0.55	42075	65.08	596	224	0.35	55668	86.11	643	59	0.09	62443	96.58
550	327	0.51	42402	65.59	597	219	0.34	55887	86.44	644	74	0.11	62517	96.70
551	294	0.45	42696	66.04	598	225	0.35	56112	86.79	645	71	0.11	62588	96.81
552	300	0.46	42996	66.50	599	192	0.30	56304	87.09	646	65	0.10	62653	96.91
553	338	0.52	43334	67.03	600	207	0.32	56511	87.41	647	69	0.11	62722	97.02
554	348	0.54	43682	67.57	601	213	0.33	56724	87.74	648	62	0.10	62784	97.11
555	327	0.51	44009	68.07	602	195	0.30	56919	88.04	649	59	0.09	62843	97.20
556	329	0.51	44338	68.58	603	181	0.28	57100	88.32	650	69	0.11	62912	97.31
557	307	0.47	44645	69.06	604	204	0.32	57304	88.64	651	51	0.08	62963	97.39
558	345	0.53	44990	69.59	605	194	0.30	57498	88.94	652	61	0.09	63024	97.48
559	342	0.53	45332	70.12	606	228	0.35	57726	89.29	653	52	0.08	63076	97.56
560	362	0.56	45694	70.68	607	180	0.28	57906	89.57	654	53	0.08	63129	97.65
561	321	0.50	46015	71.17	608	182	0.28	58088	89.85	655	49	0.08	63178	97.72
562	309	0.48	46324	71.65	609	195	0.30	58283	90.15	656	55	0.09	63233	97.81

**Table 155. Scale Score Distribution, Mathematics Grade 5 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
657	54	0.08	63287	97.89	704	10	0.02	64416	99.64	763	1	0.00	64607	99.93
658	50	0.08	63337	97.97	705	6	0.01	64422	99.65	770	15	0.02	64622	99.96
659	43	0.07	63380	98.03	706	9	0.01	64431	99.66	772	1	0.00	64623	99.96
660	43	0.07	63423	98.10	707	7	0.01	64438	99.67	778	1	0.00	64624	99.96
661	45	0.07	63468	98.17	708	13	0.02	64451	99.69	779	1	0.00	64625	99.96
662	42	0.06	63510	98.24	709	7	0.01	64458	99.70	787	1	0.00	64626	99.96
663	30	0.05	63540	98.28	710	6	0.01	64464	99.71	788	6	0.01	64632	99.97
664	40	0.06	63580	98.34	711	9	0.01	64473	99.72	792	2	0.00	64634	99.97
665	42	0.06	63622	98.41	712	7	0.01	64480	99.74	794	2	0.00	64636	99.98
666	39	0.06	63661	98.47	713	2	0.00	64482	99.74	800	15	0.02	64651	100.00
667	24	0.04	63685	98.51	714	2	0.00	64484	99.74					
668	30	0.05	63715	98.55	715	8	0.01	64492	99.75					
669	36	0.06	63751	98.61	716	9	0.01	64501	99.77					
670	23	0.04	63774	98.64	717	3	0.00	64504	99.77					
671	36	0.06	63810	98.70	718	6	0.01	64510	99.78					
672	24	0.04	63834	98.74	719	4	0.01	64514	99.79					
673	30	0.05	63864	98.78	720	3	0.00	64517	99.79					
674	33	0.05	63897	98.83	721	4	0.01	64521	99.80					
675	32	0.05	63929	98.88	722	3	0.00	64524	99.80					
676	32	0.05	63961	98.93	723	3	0.00	64527	99.81					
677	22	0.03	63983	98.97	725	2	0.00	64529	99.81					
678	23	0.04	64006	99.00	726	5	0.01	64534	99.82					
679	19	0.03	64025	99.03	727	3	0.00	64537	99.82					
680	28	0.04	64053	99.08	728	4	0.01	64541	99.83					
681	20	0.03	64073	99.11	729	1	0.00	64542	99.83					
682	26	0.04	64099	99.15	730	6	0.01	64548	99.84					
683	24	0.04	64123	99.18	731	1	0.00	64549	99.84					
684	23	0.04	64146	99.22	732	1	0.00	64550	99.84					
685	25	0.04	64171	99.26	733	3	0.00	64553	99.85					
686	19	0.03	64190	99.29	734	5	0.01	64558	99.86					
687	23	0.04	64213	99.32	735	5	0.01	64563	99.86					
688	22	0.03	64235	99.36	736	4	0.01	64567	99.87					
689	14	0.02	64249	99.38	737	4	0.01	64571	99.88					
690	13	0.02	64262	99.40	738	2	0.00	64573	99.88					
691	12	0.02	64274	99.42	739	1	0.00	64574	99.88					
692	18	0.03	64292	99.44	741	2	0.00	64576	99.88					
693	10	0.02	64302	99.46	742	6	0.01	64582	99.89					
694	9	0.01	64311	99.47	743	2	0.00	64584	99.90					
695	9	0.01	64320	99.49	744	5	0.01	64589	99.90					
696	14	0.02	64334	99.51	746	3	0.00	64592	99.91					
697	13	0.02	64347	99.53	747	3	0.00	64595	99.91					
698	11	0.02	64358	99.55	750	1	0.00	64596	99.91					
699	8	0.01	64366	99.56	753	5	0.01	64601	99.92					
700	6	0.01	64372	99.57	755	1	0.00	64602	99.92					
701	9	0.01	64381	99.58	756	1	0.00	64603	99.93					
702	22	0.03	64403	99.62	757	2	0.00	64605	99.93					
703	3	0.00	64406	99.62	761	1	0.00	64606	99.93					

**Table 156. Scale Score Distribution, Reading Grade 6**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
260	277	0.44	277	0.44	393	5	0.01	369	0.58	440	21	0.03	710	1.12
271	1	0.00	278	0.44	394	2	0.00	371	0.59	441	14	0.02	724	1.14
278	1	0.00	279	0.44	395	1	0.00	372	0.59	442	13	0.02	737	1.16
284	1	0.00	280	0.44	396	1	0.00	373	0.59	443	7	0.01	744	1.17
301	1	0.00	281	0.44	397	5	0.01	378	0.60	444	20	0.03	764	1.21
302	1	0.00	282	0.45	398	3	0.00	381	0.60	445	16	0.03	780	1.23
304	1	0.00	283	0.45	399	5	0.01	386	0.61	446	14	0.02	794	1.25
305	1	0.00	284	0.45	400	4	0.01	390	0.62	447	16	0.03	810	1.28
311	1	0.00	285	0.45	401	3	0.00	393	0.62	448	12	0.02	822	1.30
313	1	0.00	286	0.45	402	6	0.01	399	0.63	449	10	0.02	832	1.31
321	1	0.00	287	0.45	403	2	0.00	401	0.63	450	25	0.04	857	1.35
322	1	0.00	288	0.45	404	4	0.01	405	0.64	451	20	0.03	877	1.38
328	2	0.00	290	0.46	405	7	0.01	412	0.65	452	29	0.05	906	1.43
329	1	0.00	291	0.46	406	6	0.01	418	0.66	453	20	0.03	926	1.46
330	3	0.00	294	0.46	407	7	0.01	425	0.67	454	11	0.02	937	1.48
334	1	0.00	295	0.47	408	4	0.01	429	0.68	455	14	0.02	951	1.50
349	2	0.00	297	0.47	409	4	0.01	433	0.68	456	14	0.02	965	1.52
351	1	0.00	298	0.47	410	7	0.01	440	0.69	457	18	0.03	983	1.55
355	1	0.00	299	0.47	411	4	0.01	444	0.70	458	23	0.04	1006	1.59
360	1	0.00	300	0.47	412	7	0.01	451	0.71	459	27	0.04	1033	1.63
361	2	0.00	302	0.48	413	5	0.01	456	0.72	460	27	0.04	1060	1.67
362	3	0.00	305	0.48	414	6	0.01	462	0.73	461	27	0.04	1087	1.72
363	1	0.00	306	0.48	415	4	0.01	466	0.74	462	22	0.03	1109	1.75
364	1	0.00	307	0.48	416	3	0.00	469	0.74	463	26	0.04	1135	1.79
366	1	0.00	308	0.49	417	2	0.00	471	0.74	464	33	0.05	1168	1.84
367	2	0.00	310	0.49	418	8	0.01	479	0.76	465	28	0.04	1196	1.89
369	2	0.00	312	0.49	419	8	0.01	487	0.77	466	27	0.04	1223	1.93
370	2	0.00	314	0.50	420	6	0.01	493	0.78	467	30	0.05	1253	1.98
371	1	0.00	315	0.50	421	7	0.01	500	0.79	468	28	0.04	1281	2.02
374	1	0.00	316	0.50	422	7	0.01	507	0.80	469	35	0.06	1316	2.08
375	3	0.00	319	0.50	423	6	0.01	513	0.81	470	32	0.05	1348	2.13
376	4	0.01	323	0.51	424	10	0.02	523	0.83	471	27	0.04	1375	2.17
377	1	0.00	324	0.51	425	11	0.02	534	0.84	472	34	0.05	1409	2.22
378	4	0.01	328	0.52	426	9	0.01	543	0.86	473	41	0.06	1450	2.29
380	1	0.00	329	0.52	427	9	0.01	552	0.87	474	44	0.07	1494	2.36
381	1	0.00	330	0.52	428	7	0.01	559	0.88	475	30	0.05	1524	2.41
382	3	0.00	333	0.53	429	11	0.02	570	0.90	476	39	0.06	1563	2.47
383	3	0.00	336	0.53	430	10	0.02	580	0.92	477	27	0.04	1590	2.51
384	1	0.00	337	0.53	431	9	0.01	589	0.93	478	42	0.07	1632	2.58
385	6	0.01	343	0.54	432	8	0.01	597	0.94	479	32	0.05	1664	2.63
386	2	0.00	345	0.54	433	14	0.02	611	0.96	480	32	0.05	1696	2.68
387	2	0.00	347	0.55	434	14	0.02	625	0.99	481	40	0.06	1736	2.74
388	1	0.00	348	0.55	435	13	0.02	638	1.01	482	37	0.06	1773	2.80
389	2	0.00	350	0.55	436	13	0.02	651	1.03	483	29	0.05	1802	2.85
390	5	0.01	355	0.56	437	12	0.02	663	1.05	484	29	0.05	1831	2.89
391	8	0.01	363	0.57	438	8	0.01	671	1.06	485	46	0.07	1877	2.96
392	1	0.00	364	0.57	439	18	0.03	689	1.09	486	29	0.05	1906	3.01

**Table 156. Scale Score Distribution, Reading Grade 6 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
487	47	0.07	1953	3.08	534	94	0.15	5064	8.00	581	240	0.38	12785	20.19
488	41	0.06	1994	3.15	535	104	0.16	5168	8.16	582	257	0.41	13042	20.59
489	37	0.06	2031	3.21	536	103	0.16	5271	8.32	583	244	0.39	13286	20.98
490	37	0.06	2068	3.27	537	123	0.19	5394	8.52	584	252	0.40	13538	21.38
491	38	0.06	2106	3.33	538	112	0.18	5506	8.69	585	249	0.39	13787	21.77
492	41	0.06	2147	3.39	539	114	0.18	5620	8.87	586	261	0.41	14048	22.18
493	47	0.07	2194	3.46	540	109	0.17	5729	9.05	587	265	0.42	14313	22.60
494	38	0.06	2232	3.52	541	122	0.19	5851	9.24	588	281	0.44	14594	23.04
495	60	0.09	2292	3.62	542	109	0.17	5960	9.41	589	305	0.48	14899	23.52
496	60	0.09	2352	3.71	543	115	0.18	6075	9.59	590	261	0.41	15160	23.94
497	53	0.08	2405	3.80	544	133	0.21	6208	9.80	591	265	0.42	15425	24.35
498	50	0.08	2455	3.88	545	132	0.21	6340	10.01	592	295	0.47	15720	24.82
499	56	0.09	2511	3.96	546	132	0.21	6472	10.22	593	281	0.44	16001	25.26
500	52	0.08	2563	4.05	547	125	0.20	6597	10.42	594	307	0.48	16308	25.75
501	36	0.06	2599	4.10	548	139	0.22	6736	10.64	595	286	0.45	16594	26.20
502	54	0.09	2653	4.19	549	154	0.24	6890	10.88	596	300	0.47	16894	26.67
503	69	0.11	2722	4.30	550	139	0.22	7029	11.10	597	290	0.46	17184	27.13
504	59	0.09	2781	4.39	551	148	0.23	7177	11.33	598	303	0.48	17487	27.61
505	54	0.09	2835	4.48	552	144	0.23	7321	11.56	599	314	0.50	17801	28.11
506	55	0.09	2890	4.56	553	148	0.23	7469	11.79	600	315	0.50	18116	28.60
507	61	0.10	2951	4.66	554	112	0.18	7581	11.97	601	325	0.51	18441	29.12
508	59	0.09	3010	4.75	555	152	0.24	7733	12.21	602	329	0.52	18770	29.64
509	67	0.11	3077	4.86	556	163	0.26	7896	12.47	603	338	0.53	19108	30.17
510	59	0.09	3136	4.95	557	164	0.26	8060	12.73	604	279	0.44	19387	30.61
511	50	0.08	3186	5.03	558	148	0.23	8208	12.96	605	304	0.48	19691	31.09
512	49	0.08	3235	5.11	559	151	0.24	8359	13.20	606	359	0.57	20050	31.66
513	52	0.08	3287	5.19	560	165	0.26	8524	13.46	607	322	0.51	20372	32.17
514	76	0.12	3363	5.31	561	163	0.26	8687	13.72	608	335	0.53	20707	32.69
515	78	0.12	3441	5.43	562	181	0.29	8868	14.00	609	383	0.60	21090	33.30
516	68	0.11	3509	5.54	563	175	0.28	9043	14.28	610	345	0.54	21435	33.84
517	78	0.12	3587	5.66	564	189	0.30	9232	14.58	611	368	0.58	21803	34.42
518	85	0.13	3672	5.80	565	189	0.30	9421	14.87	612	381	0.60	22184	35.03
519	67	0.11	3739	5.90	566	173	0.27	9594	15.15	613	373	0.59	22557	35.62
520	97	0.15	3836	6.06	567	177	0.28	9771	15.43	614	373	0.59	22930	36.20
521	88	0.14	3924	6.20	568	195	0.31	9966	15.74	615	381	0.60	23311	36.81
522	76	0.12	4000	6.32	569	197	0.31	10163	16.05	616	389	0.61	23700	37.42
523	76	0.12	4076	6.44	570	206	0.33	10369	16.37	617	437	0.69	24137	38.11
524	93	0.15	4169	6.58	571	179	0.28	10548	16.65	618	401	0.63	24538	38.74
525	92	0.15	4261	6.73	572	213	0.34	10761	16.99	619	410	0.65	24948	39.39
526	86	0.14	4347	6.86	573	213	0.34	10974	17.33	620	394	0.62	25342	40.01
527	87	0.14	4434	7.00	574	236	0.37	11210	17.70	621	410	0.65	25752	40.66
528	81	0.13	4515	7.13	575	230	0.36	11440	18.06	622	399	0.63	26151	41.29
529	84	0.13	4599	7.26	576	230	0.36	11670	18.43	623	402	0.63	26553	41.92
530	94	0.15	4693	7.41	577	230	0.36	11900	18.79	624	436	0.69	26989	42.61
531	93	0.15	4786	7.56	578	192	0.30	12092	19.09	625	433	0.68	27422	43.30
532	90	0.14	4876	7.70	579	238	0.38	12330	19.47	626	422	0.67	27844	43.96
533	94	0.15	4970	7.85	580	215	0.34	12545	19.81	627	435	0.69	28279	44.65

**Table 156. Scale Score Distribution, Reading Grade 6 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
628	463	0.73	28742	45.38	675	360	0.57	49625	78.35	722	124	0.20	61197	96.62
629	432	0.68	29174	46.06	676	383	0.60	50008	78.96	723	106	0.17	61303	96.79
630	460	0.73	29634	46.79	677	371	0.59	50379	79.54	724	95	0.15	61398	96.94
631	471	0.74	30105	47.53	678	384	0.61	50763	80.15	725	83	0.13	61481	97.07
632	451	0.71	30556	48.25	679	341	0.54	51104	80.69	726	83	0.13	61564	97.20
633	446	0.70	31002	48.95	680	362	0.57	51466	81.26	727	95	0.15	61659	97.35
634	433	0.68	31435	49.63	681	359	0.57	51825	81.83	728	75	0.12	61734	97.47
635	419	0.66	31854	50.29	682	354	0.56	52179	82.39	729	70	0.11	61804	97.58
636	469	0.74	32323	51.03	683	364	0.57	52543	82.96	730	81	0.13	61885	97.71
637	495	0.78	32818	51.82	684	326	0.51	52869	83.48	731	72	0.11	61957	97.82
638	457	0.72	33275	52.54	685	346	0.55	53215	84.02	732	69	0.11	62026	97.93
639	475	0.75	33750	53.29	686	317	0.50	53532	84.52	733	65	0.10	62091	98.04
640	448	0.71	34198	54.00	687	286	0.45	53818	84.97	734	58	0.09	62149	98.13
641	475	0.75	34673	54.75	688	316	0.50	54134	85.47	735	73	0.12	62222	98.24
642	448	0.71	35121	55.45	689	285	0.45	54419	85.92	736	52	0.08	62274	98.32
643	496	0.78	35617	56.24	690	322	0.51	54741	86.43	737	54	0.09	62328	98.41
644	456	0.72	36073	56.96	691	324	0.51	55065	86.94	738	55	0.09	62383	98.50
645	438	0.69	36511	57.65	692	286	0.45	55351	87.39	739	41	0.06	62424	98.56
646	500	0.79	37011	58.44	693	292	0.46	55643	87.86	740	44	0.07	62468	98.63
647	451	0.71	37462	59.15	694	264	0.42	55907	88.27	741	39	0.06	62507	98.69
648	485	0.77	37947	59.91	695	258	0.41	56165	88.68	742	49	0.08	62556	98.77
649	485	0.77	38432	60.68	696	249	0.39	56414	89.07	743	43	0.07	62599	98.84
650	431	0.68	38863	61.36	697	244	0.39	56658	89.46	744	42	0.07	62641	98.90
651	483	0.76	39346	62.12	698	263	0.42	56921	89.87	745	32	0.05	62673	98.95
652	480	0.76	39826	62.88	699	241	0.38	57162	90.25	746	33	0.05	62706	99.01
653	430	0.68	40256	63.56	700	224	0.35	57386	90.61	747	35	0.06	62741	99.06
654	472	0.75	40728	64.31	701	256	0.40	57642	91.01	748	42	0.07	62783	99.13
655	462	0.73	41190	65.04	702	214	0.34	57856	91.35	749	28	0.04	62811	99.17
656	457	0.72	41647	65.76	703	239	0.38	58095	91.73	750	27	0.04	62838	99.22
657	496	0.78	42143	66.54	704	235	0.37	58330	92.10	751	20	0.03	62858	99.25
658	457	0.72	42600	67.26	705	214	0.34	58544	92.44	752	34	0.05	62892	99.30
659	428	0.68	43028	67.94	706	192	0.30	58736	92.74	753	28	0.04	62920	99.34
660	467	0.74	43495	68.67	707	189	0.30	58925	93.04	754	29	0.05	62949	99.39
661	416	0.66	43911	69.33	708	205	0.32	59130	93.36	755	25	0.04	62974	99.43
662	413	0.65	44324	69.98	709	199	0.31	59329	93.67	756	24	0.04	62998	99.47
663	467	0.74	44791	70.72	710	190	0.30	59519	93.97	757	21	0.03	63019	99.50
664	396	0.63	45187	71.35	711	178	0.28	59697	94.26	758	12	0.02	63031	99.52
665	451	0.71	45638	72.06	712	175	0.28	59872	94.53	759	16	0.03	63047	99.55
666	414	0.65	46052	72.71	713	157	0.25	60029	94.78	760	11	0.02	63058	99.56
667	437	0.69	46489	73.40	714	157	0.25	60186	95.03	761	18	0.03	63076	99.59
668	416	0.66	46905	74.06	715	134	0.21	60320	95.24	762	20	0.03	63096	99.62
669	385	0.61	47290	74.67	716	130	0.21	60450	95.44	763	11	0.02	63107	99.64
670	369	0.58	47659	75.25	717	129	0.20	60579	95.65	764	8	0.01	63115	99.65
671	431	0.68	48090	75.93	718	143	0.23	60722	95.87	765	16	0.03	63131	99.68
672	386	0.61	48476	76.54	719	134	0.21	60856	96.09	766	13	0.02	63144	99.70
673	380	0.60	48856	77.14	720	117	0.18	60973	96.27	767	11	0.02	63155	99.72
674	409	0.65	49265	77.78	721	100	0.16	61073	96.43	768	2	0.00	63157	99.72

**Table 156. Scale Score Distribution, Reading Grade 6 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
769	13	0.02	63170	99.74	852	1	0.00	63334	100.00
770	11	0.02	63181	99.76	860	1	0.00	63335	100.00
771	12	0.02	63193	99.78					
772	7	0.01	63200	99.79					
773	12	0.02	63212	99.81					
774	12	0.02	63224	99.82					
775	5	0.01	63229	99.83					
776	10	0.02	63239	99.85					
777	10	0.02	63249	99.86					
778	4	0.01	63253	99.87					
779	9	0.01	63262	99.88					
780	2	0.00	63264	99.89					
781	3	0.00	63267	99.89					
782	1	0.00	63268	99.89					
783	5	0.01	63273	99.90					
784	4	0.01	63277	99.91					
785	3	0.00	63280	99.91					
786	4	0.01	63284	99.92					
787	3	0.00	63287	99.92					
788	2	0.00	63289	99.93					
789	2	0.00	63291	99.93					
790	2	0.00	63293	99.93					
791	6	0.01	63299	99.94					
792	2	0.00	63301	99.95					
793	4	0.01	63305	99.95					
794	1	0.00	63306	99.95					
795	3	0.00	63309	99.96					
796	1	0.00	63310	99.96					
797	3	0.00	63313	99.97					
798	1	0.00	63314	99.97					
799	2	0.00	63316	99.97					
801	1	0.00	63317	99.97					
802	1	0.00	63318	99.97					
803	1	0.00	63319	99.97					
804	1	0.00	63320	99.98					
805	1	0.00	63321	99.98					
806	2	0.00	63323	99.98					
810	1	0.00	63324	99.98					
811	1	0.00	63325	99.98					
813	1	0.00	63326	99.99					
821	1	0.00	63327	99.99					
822	1	0.00	63328	99.99					
824	2	0.00	63330	99.99					
826	1	0.00	63331	99.99					
830	1	0.00	63332	100.00					
834	1	0.00	63333	100.00					

**Table 157. Scale Score Distribution, Writing Grade 6**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
230	31	0.05	31	0.05	307	6	0.01	108	0.17	358	13	0.02	390	0.62
232	2	0.00	33	0.05	308	2	0.00	110	0.17	359	14	0.02	404	0.64
234	1	0.00	34	0.05	309	1	0.00	111	0.18	360	13	0.02	417	0.66
241	1	0.00	35	0.06	311	1	0.00	112	0.18	361	15	0.02	432	0.68
243	1	0.00	36	0.06	312	4	0.01	116	0.18	362	9	0.01	441	0.70
245	1	0.00	37	0.06	313	3	0.00	119	0.19	363	14	0.02	455	0.72
247	1	0.00	38	0.06	315	1	0.00	120	0.19	364	9	0.01	464	0.73
248	2	0.00	40	0.06	316	3	0.00	123	0.19	365	15	0.02	479	0.76
249	1	0.00	41	0.06	317	3	0.00	126	0.20	366	17	0.03	496	0.78
251	3	0.00	44	0.07	318	6	0.01	132	0.21	367	20	0.03	516	0.81
252	1	0.00	45	0.07	319	3	0.00	135	0.21	368	14	0.02	530	0.84
253	1	0.00	46	0.07	320	2	0.00	137	0.22	369	20	0.03	550	0.87
254	2	0.00	48	0.08	321	3	0.00	140	0.22	370	14	0.02	564	0.89
255	4	0.01	52	0.08	323	4	0.01	144	0.23	371	14	0.02	578	0.91
256	4	0.01	56	0.09	324	3	0.00	147	0.23	372	23	0.04	601	0.95
257	1	0.00	57	0.09	325	3	0.00	150	0.24	373	16	0.03	617	0.97
258	1	0.00	58	0.09	326	2	0.00	152	0.24	374	18	0.03	635	1.00
259	1	0.00	59	0.09	327	2	0.00	154	0.24	375	12	0.02	647	1.02
260	1	0.00	60	0.09	328	5	0.01	159	0.25	376	18	0.03	665	1.05
261	1	0.00	61	0.10	329	2	0.00	161	0.25	377	22	0.03	687	1.08
262	2	0.00	63	0.10	330	5	0.01	166	0.26	378	29	0.05	716	1.13
265	1	0.00	64	0.10	331	4	0.01	170	0.27	379	15	0.02	731	1.15
267	1	0.00	65	0.10	333	8	0.01	178	0.28	380	22	0.03	753	1.19
268	1	0.00	66	0.10	334	5	0.01	183	0.29	381	18	0.03	771	1.22
269	1	0.00	67	0.11	335	4	0.01	187	0.30	382	30	0.05	801	1.26
270	2	0.00	69	0.11	336	5	0.01	192	0.30	383	27	0.04	828	1.31
271	1	0.00	70	0.11	337	3	0.00	195	0.31	384	23	0.04	851	1.34
273	1	0.00	71	0.11	338	7	0.01	202	0.32	385	39	0.06	890	1.40
276	1	0.00	72	0.11	339	5	0.01	207	0.33	386	16	0.03	906	1.43
277	1	0.00	73	0.12	340	10	0.02	217	0.34	387	28	0.04	934	1.47
280	1	0.00	74	0.12	341	13	0.02	230	0.36	388	31	0.05	965	1.52
285	1	0.00	75	0.12	342	3	0.00	233	0.37	389	32	0.05	997	1.57
287	1	0.00	76	0.12	343	7	0.01	240	0.38	390	37	0.06	1034	1.63
289	2	0.00	78	0.12	344	14	0.02	254	0.40	391	27	0.04	1061	1.67
290	4	0.01	82	0.13	345	6	0.01	260	0.41	392	30	0.05	1091	1.72
291	3	0.00	85	0.13	346	4	0.01	264	0.42	393	26	0.04	1117	1.76
292	3	0.00	88	0.14	347	11	0.02	275	0.43	394	38	0.06	1155	1.82
293	1	0.00	89	0.14	348	6	0.01	281	0.44	395	42	0.07	1197	1.89
297	1	0.00	90	0.14	349	11	0.02	292	0.46	396	37	0.06	1234	1.95
298	1	0.00	91	0.14	350	12	0.02	304	0.48	397	40	0.06	1274	2.01
299	2	0.00	93	0.15	351	9	0.01	313	0.49	398	36	0.06	1310	2.07
300	1	0.00	94	0.15	352	8	0.01	321	0.51	399	39	0.06	1349	2.13
301	1	0.00	95	0.15	353	8	0.01	329	0.52	400	42	0.07	1391	2.20
302	2	0.00	97	0.15	354	9	0.01	338	0.53	401	48	0.08	1439	2.27
303	1	0.00	98	0.15	355	16	0.03	354	0.56	402	54	0.09	1493	2.36
305	1	0.00	99	0.16	356	12	0.02	366	0.58	403	49	0.08	1542	2.43
306	3	0.00	102	0.16	357	11	0.02	377	0.60	404	54	0.09	1596	2.52

**Table 157. Scale Score Distribution, Writing Grade 6 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
405	62	0.10	1658	2.62	452	196	0.31	7307	11.53	499	434	0.69	21535	33.99
406	65	0.10	1723	2.72	453	217	0.34	7524	11.88	500	416	0.66	21951	34.65
407	54	0.09	1777	2.80	454	197	0.31	7721	12.19	501	443	0.70	22394	35.35
408	53	0.08	1830	2.89	455	206	0.33	7927	12.51	502	459	0.72	22853	36.07
409	61	0.10	1891	2.98	456	204	0.32	8131	12.83	503	442	0.70	23295	36.77
410	70	0.11	1961	3.10	457	232	0.37	8363	13.20	504	436	0.69	23731	37.46
411	63	0.10	2024	3.19	458	224	0.35	8587	13.55	505	418	0.66	24149	38.12
412	61	0.10	2085	3.29	459	217	0.34	8804	13.90	506	419	0.66	24568	38.78
413	78	0.12	2163	3.41	460	249	0.39	9053	14.29	507	446	0.70	25014	39.48
414	62	0.10	2225	3.51	461	208	0.33	9261	14.62	508	457	0.72	25471	40.20
415	79	0.12	2304	3.64	462	230	0.36	9491	14.98	509	443	0.70	25914	40.90
416	76	0.12	2380	3.76	463	223	0.35	9714	15.33	510	440	0.69	26354	41.60
417	99	0.16	2479	3.91	464	231	0.36	9945	15.70	511	413	0.65	26767	42.25
418	70	0.11	2549	4.02	465	257	0.41	10202	16.10	512	475	0.75	27242	43.00
419	92	0.15	2641	4.17	466	248	0.39	10450	16.49	513	473	0.75	27715	43.74
420	95	0.15	2736	4.32	467	249	0.39	10699	16.89	514	446	0.70	28161	44.45
421	97	0.15	2833	4.47	468	246	0.39	10945	17.28	515	438	0.69	28599	45.14
422	89	0.14	2922	4.61	469	298	0.47	11243	17.75	516	480	0.76	29079	45.90
423	98	0.15	3020	4.77	470	236	0.37	11479	18.12	517	440	0.69	29519	46.59
424	114	0.18	3134	4.95	471	279	0.44	11758	18.56	518	419	0.66	29938	47.25
425	92	0.15	3226	5.09	472	284	0.45	12042	19.01	519	466	0.74	30404	47.99
426	109	0.17	3335	5.26	473	312	0.49	12354	19.50	520	472	0.74	30876	48.73
427	105	0.17	3440	5.43	474	268	0.42	12622	19.92	521	450	0.71	31326	49.44
428	118	0.19	3558	5.62	475	295	0.47	12917	20.39	522	449	0.71	31775	50.15
429	141	0.22	3699	5.84	476	307	0.48	13224	20.87	523	477	0.75	32252	50.91
430	128	0.20	3827	6.04	477	292	0.46	13516	21.33	524	488	0.77	32740	51.68
431	143	0.23	3970	6.27	478	326	0.51	13842	21.85	525	452	0.71	33192	52.39
432	122	0.19	4092	6.46	479	333	0.53	14175	22.37	526	487	0.77	33679	53.16
433	129	0.20	4221	6.66	480	308	0.49	14483	22.86	527	435	0.69	34114	53.84
434	118	0.19	4339	6.85	481	327	0.52	14810	23.38	528	468	0.74	34582	54.58
435	146	0.23	4485	7.08	482	332	0.52	15142	23.90	529	456	0.72	35038	55.30
436	142	0.22	4627	7.30	483	328	0.52	15470	24.42	530	437	0.69	35475	55.99
437	149	0.24	4776	7.54	484	346	0.55	15816	24.96	531	491	0.77	35966	56.77
438	143	0.23	4919	7.76	485	352	0.56	16168	25.52	532	433	0.68	36399	57.45
439	163	0.26	5082	8.02	486	342	0.54	16510	26.06	533	453	0.72	36852	58.17
440	128	0.20	5210	8.22	487	379	0.60	16889	26.66	534	452	0.71	37304	58.88
441	160	0.25	5370	8.48	488	356	0.56	17245	27.22	535	456	0.72	37760	59.60
442	168	0.27	5538	8.74	489	389	0.61	17634	27.83	536	438	0.69	38198	60.29
443	169	0.27	5707	9.01	490	380	0.60	18014	28.43	537	446	0.70	38644	61.00
444	163	0.26	5870	9.27	491	389	0.61	18403	29.05	538	423	0.67	39067	61.66
445	158	0.25	6028	9.51	492	372	0.59	18775	29.63	539	443	0.70	39510	62.36
446	174	0.27	6202	9.79	493	387	0.61	19162	30.24	540	416	0.66	39926	63.02
447	192	0.30	6394	10.09	494	395	0.62	19557	30.87	541	477	0.75	40403	63.77
448	190	0.30	6584	10.39	495	395	0.62	19952	31.49	542	462	0.73	40865	64.50
449	184	0.29	6768	10.68	496	411	0.65	20363	32.14	543	419	0.66	41284	65.16
450	177	0.28	6945	10.96	497	362	0.57	20725	32.71	544	433	0.68	41717	65.85
451	166	0.26	7111	11.22	498	376	0.59	21101	33.31	545	433	0.68	42150	66.53



**Table 157. Scale Score Distribution, Writing Grade 6 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
546	394	0.62	42544	67.15	593	182	0.29	57298	90.44	640	39	0.06	62272	98.29
547	424	0.67	42968	67.82	594	212	0.33	57510	90.77	641	36	0.06	62308	98.35
548	405	0.64	43373	68.46	595	178	0.28	57688	91.05	642	44	0.07	62352	98.42
549	455	0.72	43828	69.18	596	163	0.26	57851	91.31	643	27	0.04	62379	98.46
550	367	0.58	44195	69.76	597	196	0.31	58047	91.62	644	42	0.07	62421	98.52
551	413	0.65	44608	70.41	598	156	0.25	58203	91.87	645	35	0.06	62456	98.58
552	429	0.68	45037	71.09	599	170	0.27	58373	92.13	646	39	0.06	62495	98.64
553	391	0.62	45428	71.70	600	181	0.29	58554	92.42	647	36	0.06	62531	98.70
554	377	0.60	45805	72.30	601	156	0.25	58710	92.67	648	24	0.04	62555	98.74
555	386	0.61	46191	72.91	602	159	0.25	58869	92.92	649	33	0.05	62588	98.79
556	379	0.60	46570	73.51	603	130	0.21	58999	93.12	650	34	0.05	62622	98.84
557	353	0.56	46923	74.06	604	142	0.22	59141	93.35	651	20	0.03	62642	98.87
558	380	0.60	47303	74.66	605	139	0.22	59280	93.57	652	30	0.05	62672	98.92
559	375	0.59	47678	75.25	606	135	0.21	59415	93.78	653	26	0.04	62698	98.96
560	337	0.53	48015	75.79	607	143	0.23	59558	94.01	654	26	0.04	62724	99.00
561	355	0.56	48370	76.35	608	167	0.26	59725	94.27	655	17	0.03	62741	99.03
562	367	0.58	48737	76.93	609	148	0.23	59873	94.50	656	17	0.03	62758	99.06
563	336	0.53	49073	77.46	610	131	0.21	60004	94.71	657	23	0.04	62781	99.09
564	339	0.54	49412	77.99	611	115	0.18	60119	94.89	658	22	0.03	62803	99.13
565	348	0.55	49760	78.54	612	100	0.16	60219	95.05	659	15	0.02	62818	99.15
566	353	0.56	50113	79.10	613	103	0.16	60322	95.21	660	23	0.04	62841	99.19
567	346	0.55	50459	79.64	614	114	0.18	60436	95.39	661	13	0.02	62854	99.21
568	325	0.51	50784	80.16	615	129	0.20	60565	95.59	662	16	0.03	62870	99.23
569	340	0.54	51124	80.69	616	95	0.15	60660	95.74	663	14	0.02	62884	99.26
570	310	0.49	51434	81.18	617	97	0.15	60757	95.90	664	13	0.02	62897	99.28
571	291	0.46	51725	81.64	618	85	0.13	60842	96.03	665	12	0.02	62909	99.29
572	311	0.49	52036	82.13	619	94	0.15	60936	96.18	666	14	0.02	62923	99.32
573	304	0.48	52340	82.61	620	97	0.15	61033	96.33	667	13	0.02	62936	99.34
574	302	0.48	52642	83.09	621	82	0.13	61115	96.46	668	8	0.01	62944	99.35
575	293	0.46	52935	83.55	622	77	0.12	61192	96.58	669	21	0.03	62965	99.38
576	266	0.42	53201	83.97	623	80	0.13	61272	96.71	670	21	0.03	62986	99.42
577	288	0.45	53489	84.43	624	65	0.10	61337	96.81	671	17	0.03	63003	99.44
578	276	0.44	53765	84.86	625	82	0.13	61419	96.94	672	11	0.02	63014	99.46
579	256	0.40	54021	85.27	626	71	0.11	61490	97.05	673	9	0.01	63023	99.47
580	263	0.42	54284	85.68	627	75	0.12	61565	97.17	674	9	0.01	63032	99.49
581	278	0.44	54562	86.12	628	69	0.11	61634	97.28	675	7	0.01	63039	99.50
582	241	0.38	54803	86.50	629	59	0.09	61693	97.38	676	10	0.02	63049	99.52
583	256	0.40	55059	86.90	630	72	0.11	61765	97.49	677	11	0.02	63060	99.53
584	236	0.37	55295	87.28	631	61	0.10	61826	97.59	678	5	0.01	63065	99.54
585	258	0.41	55553	87.68	632	52	0.08	61878	97.67	679	15	0.02	63080	99.56
586	235	0.37	55788	88.05	633	59	0.09	61937	97.76	680	21	0.03	63101	99.60
587	229	0.36	56017	88.42	634	51	0.08	61988	97.84	681	9	0.01	63110	99.61
588	233	0.37	56250	88.78	635	54	0.09	62042	97.93	682	6	0.01	63116	99.62
589	217	0.34	56467	89.13	636	52	0.08	62094	98.01	683	11	0.02	63127	99.64
590	226	0.36	56693	89.48	637	57	0.09	62151	98.10	684	8	0.01	63135	99.65
591	203	0.32	56896	89.80	638	53	0.08	62204	98.18	685	3	0.00	63138	99.66
592	220	0.35	57116	90.15	639	29	0.05	62233	98.23	686	11	0.02	63149	99.67

**Table 157. Scale Score Distribution, Writing Grade 6 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
687	14	0.02	63163	99.70	747	1	0.00	63336	99.97
688	4	0.01	63167	99.70	750	1	0.00	63337	99.97
689	2	0.00	63169	99.70	755	2	0.00	63339	99.97
690	8	0.01	63177	99.72	787	1	0.00	63340	99.97
692	6	0.01	63183	99.73	789	9	0.01	63349	99.99
693	10	0.02	63193	99.74	798	1	0.00	63350	99.99
694	5	0.01	63198	99.75	805	1	0.00	63351	99.99
695	4	0.01	63202	99.76	840	5	0.01	63356	100.00
696	7	0.01	63209	99.77					
697	4	0.01	63213	99.77					
698	5	0.01	63218	99.78					
699	13	0.02	63231	99.80					
700	8	0.01	63239	99.82					
701	7	0.01	63246	99.83					
702	2	0.00	63248	99.83					
703	5	0.01	63253	99.84					
704	4	0.01	63257	99.84					
705	2	0.00	63259	99.85					
706	2	0.00	63261	99.85					
708	2	0.00	63263	99.85					
709	6	0.01	63269	99.86					
710	2	0.00	63271	99.87					
711	3	0.00	63274	99.87					
712	2	0.00	63276	99.87					
713	1	0.00	63277	99.88					
715	2	0.00	63279	99.88					
716	1	0.00	63280	99.88					
717	1	0.00	63281	99.88					
718	7	0.01	63288	99.89					
719	3	0.00	63291	99.90					
720	2	0.00	63293	99.90					
721	9	0.01	63302	99.91					
722	1	0.00	63303	99.92					
724	2	0.00	63305	99.92					
727	2	0.00	63307	99.92					
728	1	0.00	63308	99.92					
729	1	0.00	63309	99.93					
731	1	0.00	63310	99.93					
732	1	0.00	63311	99.93					
733	1	0.00	63312	99.93					
735	5	0.01	63317	99.94					
736	2	0.00	63319	99.94					
738	1	0.00	63320	99.94					
739	3	0.00	63323	99.95					
740	4	0.01	63327	99.95					
741	6	0.01	63333	99.96					
742	2	0.00	63335	99.97					

**Table 158. Scale Score Distribution, Mathematics Grade 6**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
240	179	0.28	179	0.28	295	4	0.01	314	0.50	342	19	0.03	773	1.22
241	2	0.00	181	0.29	296	7	0.01	321	0.51	343	20	0.03	793	1.25
242	1	0.00	182	0.29	297	4	0.01	325	0.51	344	19	0.03	812	1.28
244	1	0.00	183	0.29	298	5	0.01	330	0.52	345	19	0.03	831	1.31
245	2	0.00	185	0.29	299	2	0.00	332	0.52	346	18	0.03	849	1.34
246	1	0.00	186	0.29	300	4	0.01	336	0.53	347	14	0.02	863	1.36
250	3	0.00	189	0.30	301	7	0.01	343	0.54	348	21	0.03	884	1.39
252	2	0.00	191	0.30	302	9	0.01	352	0.55	349	27	0.04	911	1.44
253	2	0.00	193	0.30	303	5	0.01	357	0.56	350	17	0.03	928	1.46
254	1	0.00	194	0.31	304	4	0.01	361	0.57	351	23	0.04	951	1.50
255	3	0.00	197	0.31	305	7	0.01	368	0.58	352	16	0.03	967	1.52
256	2	0.00	199	0.31	306	5	0.01	373	0.59	353	16	0.03	983	1.55
257	1	0.00	200	0.32	307	7	0.01	380	0.60	354	24	0.04	1007	1.59
259	3	0.00	203	0.32	308	5	0.01	385	0.61	355	18	0.03	1025	1.62
260	4	0.01	207	0.33	309	10	0.02	395	0.62	356	24	0.04	1049	1.65
261	1	0.00	208	0.33	310	8	0.01	403	0.64	357	20	0.03	1069	1.69
262	1	0.00	209	0.33	311	12	0.02	415	0.65	358	17	0.03	1086	1.71
263	3	0.00	212	0.33	312	11	0.02	426	0.67	359	26	0.04	1112	1.75
264	4	0.01	216	0.34	313	8	0.01	434	0.68	360	23	0.04	1135	1.79
265	2	0.00	218	0.34	314	3	0.00	437	0.69	361	33	0.05	1168	1.84
266	1	0.00	219	0.35	315	6	0.01	443	0.70	362	31	0.05	1199	1.89
267	2	0.00	221	0.35	316	14	0.02	457	0.72	363	25	0.04	1224	1.93
269	2	0.00	223	0.35	317	5	0.01	462	0.73	364	17	0.03	1241	1.96
270	1	0.00	224	0.35	318	4	0.01	466	0.73	365	25	0.04	1266	2.00
271	2	0.00	226	0.36	319	10	0.02	476	0.75	366	30	0.05	1296	2.04
272	2	0.00	228	0.36	320	10	0.02	486	0.77	367	23	0.04	1319	2.08
273	2	0.00	230	0.36	321	9	0.01	495	0.78	368	29	0.05	1348	2.13
274	2	0.00	232	0.37	322	6	0.01	501	0.79	369	26	0.04	1374	2.17
275	5	0.01	237	0.37	323	11	0.02	512	0.81	370	25	0.04	1399	2.21
276	2	0.00	239	0.38	324	13	0.02	525	0.83	371	26	0.04	1425	2.25
277	2	0.00	241	0.38	325	11	0.02	536	0.84	372	35	0.06	1460	2.30
278	2	0.00	243	0.38	326	11	0.02	547	0.86	373	33	0.05	1493	2.35
279	3	0.00	246	0.39	327	19	0.03	566	0.89	374	34	0.05	1527	2.41
280	3	0.00	249	0.39	328	16	0.03	582	0.92	375	43	0.07	1570	2.48
281	5	0.01	254	0.40	329	15	0.02	597	0.94	376	29	0.05	1599	2.52
282	3	0.00	257	0.41	330	14	0.02	611	0.96	377	33	0.05	1632	2.57
284	4	0.01	261	0.41	331	8	0.01	619	0.98	378	29	0.05	1661	2.62
285	3	0.00	264	0.42	332	12	0.02	631	0.99	379	33	0.05	1694	2.67
286	9	0.01	273	0.43	333	10	0.02	641	1.01	380	43	0.07	1737	2.74
287	1	0.00	274	0.43	334	17	0.03	658	1.04	381	40	0.06	1777	2.80
288	3	0.00	277	0.44	335	10	0.02	668	1.05	382	26	0.04	1803	2.84
289	6	0.01	283	0.45	336	12	0.02	680	1.07	383	40	0.06	1843	2.91
290	8	0.01	291	0.46	337	12	0.02	692	1.09	384	36	0.06	1879	2.96
291	5	0.01	296	0.47	338	14	0.02	706	1.11	385	50	0.08	1929	3.04
292	4	0.01	300	0.47	339	15	0.02	721	1.14	386	39	0.06	1968	3.10
293	6	0.01	306	0.48	340	14	0.02	735	1.16	387	38	0.06	2006	3.16
294	4	0.01	310	0.49	341	19	0.03	754	1.19	388	47	0.07	2053	3.24

**Table 158. Scale Score Distribution, Mathematics Grade 6 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
389	57	0.09	2110	3.33	436	97	0.15	5780	9.11	483	241	0.38	14087	22.21
390	57	0.09	2167	3.42	437	112	0.18	5892	9.29	484	254	0.40	14341	22.61
391	57	0.09	2224	3.51	438	115	0.18	6007	9.47	485	239	0.38	14580	22.98
392	52	0.08	2276	3.59	439	114	0.18	6121	9.65	486	258	0.41	14838	23.39
393	56	0.09	2332	3.68	440	147	0.23	6268	9.88	487	260	0.41	15098	23.80
394	55	0.09	2387	3.76	441	125	0.20	6393	10.08	488	272	0.43	15370	24.23
395	53	0.08	2440	3.85	442	133	0.21	6526	10.29	489	267	0.42	15637	24.65
396	42	0.07	2482	3.91	443	147	0.23	6673	10.52	490	259	0.41	15896	25.06
397	50	0.08	2532	3.99	444	144	0.23	6817	10.75	491	281	0.44	16177	25.50
398	61	0.10	2593	4.09	445	131	0.21	6948	10.95	492	275	0.43	16452	25.94
399	55	0.09	2648	4.17	446	132	0.21	7080	11.16	493	270	0.43	16722	26.36
400	78	0.12	2726	4.30	447	137	0.22	7217	11.38	494	269	0.42	16991	26.79
401	53	0.08	2779	4.38	448	127	0.20	7344	11.58	495	288	0.45	17279	27.24
402	54	0.09	2833	4.47	449	143	0.23	7487	11.80	496	279	0.44	17558	27.68
403	59	0.09	2892	4.56	450	156	0.25	7643	12.05	497	276	0.44	17834	28.11
404	54	0.09	2946	4.64	451	145	0.23	7788	12.28	498	287	0.45	18121	28.57
405	75	0.12	3021	4.76	452	161	0.25	7949	12.53	499	268	0.42	18389	28.99
406	67	0.11	3088	4.87	453	178	0.28	8127	12.81	500	306	0.48	18695	29.47
407	60	0.09	3148	4.96	454	159	0.25	8286	13.06	501	263	0.41	18958	29.89
408	59	0.09	3207	5.06	455	153	0.24	8439	13.30	502	273	0.43	19231	30.32
409	69	0.11	3276	5.16	456	171	0.27	8610	13.57	503	279	0.44	19510	30.76
410	67	0.11	3343	5.27	457	170	0.27	8780	13.84	504	312	0.49	19822	31.25
411	84	0.13	3427	5.40	458	165	0.26	8945	14.10	505	324	0.51	20146	31.76
412	75	0.12	3502	5.52	459	181	0.29	9126	14.39	506	316	0.50	20462	32.26
413	88	0.14	3590	5.66	460	162	0.26	9288	14.64	507	302	0.48	20764	32.73
414	83	0.13	3673	5.79	461	173	0.27	9461	14.91	508	276	0.44	21040	33.17
415	77	0.12	3750	5.91	462	185	0.29	9646	15.21	509	334	0.53	21374	33.69
416	91	0.14	3841	6.06	463	182	0.29	9828	15.49	510	303	0.48	21677	34.17
417	79	0.12	3920	6.18	464	176	0.28	10004	15.77	511	322	0.51	21999	34.68
418	69	0.11	3989	6.29	465	186	0.29	10190	16.06	512	315	0.50	22314	35.18
419	75	0.12	4064	6.41	466	175	0.28	10365	16.34	513	344	0.54	22658	35.72
420	76	0.12	4140	6.53	467	168	0.26	10533	16.60	514	300	0.47	22958	36.19
421	77	0.12	4217	6.65	468	218	0.34	10751	16.95	515	298	0.47	23256	36.66
422	89	0.14	4306	6.79	469	212	0.33	10963	17.28	516	317	0.50	23573	37.16
423	94	0.15	4400	6.94	470	216	0.34	11179	17.62	517	324	0.51	23897	37.67
424	87	0.14	4487	7.07	471	197	0.31	11376	17.93	518	313	0.49	24210	38.17
425	96	0.15	4583	7.22	472	194	0.31	11570	18.24	519	319	0.50	24529	38.67
426	84	0.13	4667	7.36	473	208	0.33	11778	18.57	520	342	0.54	24871	39.21
427	104	0.16	4771	7.52	474	222	0.35	12000	18.92	521	318	0.50	25189	39.71
428	113	0.18	4884	7.70	475	223	0.35	12223	19.27	522	342	0.54	25531	40.25
429	115	0.18	4999	7.88	476	207	0.33	12430	19.60	523	343	0.54	25874	40.79
430	96	0.15	5095	8.03	477	201	0.32	12631	19.91	524	325	0.51	26199	41.30
431	95	0.15	5190	8.18	478	231	0.36	12862	20.28	525	364	0.57	26563	41.88
432	108	0.17	5298	8.35	479	219	0.35	13081	20.62	526	336	0.53	26899	42.40
433	130	0.20	5428	8.56	480	248	0.39	13329	21.01	527	355	0.56	27254	42.96
434	119	0.19	5547	8.74	481	269	0.42	13598	21.44	528	310	0.49	27564	43.45
435	136	0.21	5683	8.96	482	248	0.39	13846	21.83	529	335	0.53	27899	43.98

**Table 158. Scale Score Distribution, Mathematics Grade 6 (cont’d)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>
530	325	0.51	28224	44.49	577	325	0.51	43435	68.47	624	217	0.34	55404	87.34
531	335	0.53	28559	45.02	578	280	0.44	43715	68.91	625	208	0.33	55612	87.67
532	298	0.47	28857	45.49	579	293	0.46	44008	69.38	626	203	0.32	55815	87.99
533	345	0.54	29202	46.04	580	305	0.48	44313	69.86	627	208	0.33	56023	88.32
534	325	0.51	29527	46.55	581	307	0.48	44620	70.34	628	198	0.31	56221	88.63
535	373	0.59	29900	47.14	582	310	0.49	44930	70.83	629	204	0.32	56425	88.95
536	338	0.53	30238	47.67	583	293	0.46	45223	71.29	630	194	0.31	56619	89.26
537	314	0.50	30552	48.16	584	311	0.49	45534	71.78	631	168	0.26	56787	89.52
538	325	0.51	30877	48.68	585	289	0.46	45823	72.24	632	156	0.25	56943	89.77
539	342	0.54	31219	49.21	586	296	0.47	46119	72.70	633	183	0.29	57126	90.06
540	334	0.53	31553	49.74	587	260	0.41	46379	73.11	634	192	0.30	57318	90.36
541	325	0.51	31878	50.25	588	304	0.48	46683	73.59	635	167	0.26	57485	90.62
542	310	0.49	32188	50.74	589	274	0.43	46957	74.02	636	172	0.27	57657	90.89
543	324	0.51	32512	51.25	590	264	0.42	47221	74.44	637	171	0.27	57828	91.16
544	337	0.53	32849	51.78	591	268	0.42	47489	74.86	638	162	0.26	57990	91.42
545	343	0.54	33192	52.33	592	290	0.46	47779	75.32	639	159	0.25	58149	91.67
546	310	0.49	33502	52.81	593	291	0.46	48070	75.78	640	153	0.24	58302	91.91
547	348	0.55	33850	53.36	594	254	0.40	48324	76.18	641	149	0.23	58451	92.14
548	334	0.53	34184	53.89	595	268	0.42	48592	76.60	642	145	0.23	58596	92.37
549	340	0.54	34524	54.43	596	256	0.40	48848	77.01	643	157	0.25	58753	92.62
550	341	0.54	34865	54.96	597	303	0.48	49151	77.48	644	131	0.21	58884	92.83
551	333	0.52	35198	55.49	598	258	0.41	49409	77.89	645	122	0.19	59006	93.02
552	336	0.53	35534	56.02	599	252	0.40	49661	78.29	646	115	0.18	59121	93.20
553	329	0.52	35863	56.54	600	289	0.46	49950	78.74	647	123	0.19	59244	93.39
554	351	0.55	36214	57.09	601	228	0.36	50178	79.10	648	122	0.19	59366	93.59
555	336	0.53	36550	57.62	602	258	0.41	50436	79.51	649	136	0.21	59502	93.80
556	375	0.59	36925	58.21	603	241	0.38	50677	79.89	650	98	0.15	59600	93.96
557	309	0.49	37234	58.70	604	227	0.36	50904	80.25	651	116	0.18	59716	94.14
558	339	0.53	37573	59.23	605	272	0.43	51176	80.68	652	114	0.18	59830	94.32
559	311	0.49	37884	59.72	606	236	0.37	51412	81.05	653	135	0.21	59965	94.53
560	294	0.46	38178	60.19	607	227	0.36	51639	81.41	654	114	0.18	60079	94.71
561	303	0.48	38481	60.66	608	256	0.40	51895	81.81	655	106	0.17	60185	94.88
562	329	0.52	38810	61.18	609	259	0.41	52154	82.22	656	101	0.16	60286	95.04
563	322	0.51	39132	61.69	610	231	0.36	52385	82.58	657	111	0.17	60397	95.21
564	338	0.53	39470	62.22	611	235	0.37	52620	82.95	658	105	0.17	60502	95.38
565	285	0.45	39755	62.67	612	201	0.32	52821	83.27	659	112	0.18	60614	95.55
566	303	0.48	40058	63.15	613	224	0.35	53045	83.62	660	110	0.17	60724	95.73
567	304	0.48	40362	63.63	614	228	0.36	53273	83.98	661	87	0.14	60811	95.86
568	330	0.52	40692	64.15	615	191	0.30	53464	84.28	662	91	0.14	60902	96.01
569	295	0.47	40987	64.61	616	213	0.34	53677	84.62	663	64	0.10	60966	96.11
570	311	0.49	41298	65.10	617	230	0.36	53907	84.98	664	84	0.13	61050	96.24
571	283	0.45	41581	65.55	618	222	0.35	54129	85.33	665	78	0.12	61128	96.36
572	296	0.47	41877	66.02	619	221	0.35	54350	85.68	666	94	0.15	61222	96.51
573	340	0.54	42217	66.55	620	210	0.33	54560	86.01	667	85	0.13	61307	96.65
574	301	0.47	42518	67.03	621	210	0.33	54770	86.34	668	95	0.15	61402	96.80
575	306	0.48	42824	67.51	622	216	0.34	54986	86.68	669	83	0.13	61485	96.93
576	286	0.45	43110	67.96	623	201	0.32	55187	87.00	670	77	0.12	61562	97.05

**Table 158. Scale Score Distribution, Mathematics Grade 6 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
671	73	0.12	61635	97.16	718	3	0.00	63174	99.59	782	4	0.01	63398	99.94
672	80	0.13	61715	97.29	719	11	0.02	63185	99.61	783	1	0.00	63399	99.94
673	65	0.10	61780	97.39	720	6	0.01	63191	99.62	785	5	0.01	63404	99.95
674	63	0.10	61843	97.49	721	14	0.02	63205	99.64	788	8	0.01	63412	99.97
675	59	0.09	61902	97.58	722	3	0.00	63208	99.64	790	7	0.01	63419	99.98
676	36	0.06	61938	97.64	723	6	0.01	63214	99.65	793	2	0.00	63421	99.98
677	74	0.12	62012	97.76	724	7	0.01	63221	99.66	794	1	0.00	63422	99.98
678	50	0.08	62062	97.84	725	10	0.02	63231	99.68	799	1	0.00	63423	99.98
679	58	0.09	62120	97.93	726	6	0.01	63237	99.69	830	11	0.02	63434	100.00
680	43	0.07	62163	98.00	727	21	0.03	63258	99.72					
681	51	0.08	62214	98.08	728	9	0.01	63267	99.74					
682	59	0.09	62273	98.17	729	11	0.02	63278	99.75					
683	46	0.07	62319	98.24	730	12	0.02	63290	99.77					
684	44	0.07	62363	98.31	731	4	0.01	63294	99.78					
685	34	0.05	62397	98.37	732	7	0.01	63301	99.79					
686	37	0.06	62434	98.42	733	3	0.00	63304	99.80					
687	46	0.07	62480	98.50	734	7	0.01	63311	99.81					
688	45	0.07	62525	98.57	735	1	0.00	63312	99.81					
689	34	0.05	62559	98.62	736	2	0.00	63314	99.81					
690	35	0.06	62594	98.68	737	2	0.00	63316	99.81					
691	41	0.06	62635	98.74	738	4	0.01	63320	99.82					
692	26	0.04	62661	98.78	739	2	0.00	63322	99.82					
693	23	0.04	62684	98.82	740	4	0.01	63326	99.83					
694	38	0.06	62722	98.88	741	2	0.00	63328	99.83					
695	29	0.05	62751	98.92	742	1	0.00	63329	99.83					
696	33	0.05	62784	98.98	743	1	0.00	63330	99.84					
697	17	0.03	62801	99.00	744	3	0.00	63333	99.84					
698	34	0.05	62835	99.06	745	1	0.00	63334	99.84					
699	24	0.04	62859	99.09	746	13	0.02	63347	99.86					
700	35	0.06	62894	99.15	747	6	0.01	63353	99.87					
701	22	0.03	62916	99.18	748	2	0.00	63355	99.88					
702	25	0.04	62941	99.22	749	2	0.00	63357	99.88					
703	17	0.03	62958	99.25	751	8	0.01	63365	99.89					
704	15	0.02	62973	99.27	752	3	0.00	63368	99.90					
705	9	0.01	62982	99.29	753	2	0.00	63370	99.90					
706	10	0.02	62992	99.30	754	4	0.01	63374	99.91					
707	19	0.03	63011	99.33	755	4	0.01	63378	99.91					
708	13	0.02	63024	99.35	756	4	0.01	63382	99.92					
709	21	0.03	63045	99.39	757	1	0.00	63383	99.92					
710	11	0.02	63056	99.40	758	1	0.00	63384	99.92					
711	21	0.03	63077	99.44	760	1	0.00	63385	99.92					
712	17	0.03	63094	99.46	761	1	0.00	63386	99.92					
713	21	0.03	63115	99.50	766	1	0.00	63387	99.93					
714	21	0.03	63136	99.53	771	2	0.00	63389	99.93					
715	20	0.03	63156	99.56	772	3	0.00	63392	99.93					
716	8	0.01	63164	99.57	773	1	0.00	63393	99.94					
717	7	0.01	63171	99.59	778	1	0.00	63394	99.94					

**Table 159. Scale Score Distribution, Reading Grade 7**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
300	195	0.31	195	0.31	384	1	0.00	274	0.43	431	6	0.01	500	0.79
305	2	0.00	197	0.31	385	4	0.01	278	0.44	432	9	0.01	509	0.81
307	1	0.00	198	0.31	386	3	0.00	281	0.45	433	7	0.01	516	0.82
308	1	0.00	199	0.32	387	3	0.00	284	0.45	434	7	0.01	523	0.83
315	1	0.00	200	0.32	388	1	0.00	285	0.45	435	8	0.01	531	0.84
322	1	0.00	201	0.32	389	3	0.00	288	0.46	436	7	0.01	538	0.85
324	1	0.00	202	0.32	390	2	0.00	290	0.46	437	10	0.02	548	0.87
325	1	0.00	203	0.32	391	2	0.00	292	0.46	438	11	0.02	559	0.89
326	1	0.00	204	0.32	392	6	0.01	298	0.47	439	13	0.02	572	0.91
330	1	0.00	205	0.32	393	2	0.00	300	0.48	440	5	0.01	577	0.91
331	1	0.00	206	0.33	394	1	0.00	301	0.48	441	8	0.01	585	0.93
332	2	0.00	208	0.33	395	4	0.01	305	0.48	442	4	0.01	589	0.93
334	2	0.00	210	0.33	396	3	0.00	308	0.49	443	11	0.02	600	0.95
336	1	0.00	211	0.33	397	4	0.01	312	0.49	444	6	0.01	606	0.96
337	2	0.00	213	0.34	398	1	0.00	313	0.50	445	12	0.02	618	0.98
340	1	0.00	214	0.34	399	4	0.01	317	0.50	446	10	0.02	628	1.00
341	1	0.00	215	0.34	400	4	0.01	321	0.51	447	6	0.01	634	1.00
344	1	0.00	216	0.34	401	2	0.00	323	0.51	448	13	0.02	647	1.03
347	2	0.00	218	0.35	402	3	0.00	326	0.52	449	10	0.02	657	1.04
348	2	0.00	220	0.35	403	5	0.01	331	0.52	450	8	0.01	665	1.05
349	1	0.00	221	0.35	404	7	0.01	338	0.54	451	10	0.02	675	1.07
350	1	0.00	222	0.35	405	5	0.01	343	0.54	452	11	0.02	686	1.09
351	1	0.00	223	0.35	406	4	0.01	347	0.55	453	18	0.03	704	1.12
352	1	0.00	224	0.36	407	1	0.00	348	0.55	454	13	0.02	717	1.14
355	1	0.00	225	0.36	408	5	0.01	353	0.56	455	16	0.03	733	1.16
359	1	0.00	226	0.36	409	2	0.00	355	0.56	456	10	0.02	743	1.18
360	2	0.00	228	0.36	410	3	0.00	358	0.57	457	13	0.02	756	1.20
361	1	0.00	229	0.36	411	7	0.01	365	0.58	458	12	0.02	768	1.22
362	1	0.00	230	0.36	412	8	0.01	373	0.59	459	12	0.02	780	1.24
363	4	0.01	234	0.37	413	6	0.01	379	0.60	460	9	0.01	789	1.25
364	1	0.00	235	0.37	414	6	0.01	385	0.61	461	21	0.03	810	1.28
365	1	0.00	236	0.37	415	7	0.01	392	0.62	462	16	0.03	826	1.31
367	4	0.01	240	0.38	416	7	0.01	399	0.63	463	13	0.02	839	1.33
368	1	0.00	241	0.38	417	6	0.01	405	0.64	464	17	0.03	856	1.36
369	1	0.00	242	0.38	418	4	0.01	409	0.65	465	20	0.03	876	1.39
370	2	0.00	244	0.39	419	11	0.02	420	0.67	466	25	0.04	901	1.43
371	3	0.00	247	0.39	420	8	0.01	428	0.68	467	15	0.02	916	1.45
372	1	0.00	248	0.39	421	6	0.01	434	0.69	468	16	0.03	932	1.48
373	2	0.00	250	0.40	422	8	0.01	442	0.70	469	14	0.02	946	1.50
374	3	0.00	253	0.40	423	4	0.01	446	0.71	470	22	0.03	968	1.53
375	1	0.00	254	0.40	424	5	0.01	451	0.71	471	22	0.03	990	1.57
376	5	0.01	259	0.41	425	12	0.02	463	0.73	472	18	0.03	1008	1.60
378	2	0.00	261	0.41	426	8	0.01	471	0.75	473	23	0.04	1031	1.63
380	2	0.00	263	0.42	427	9	0.01	480	0.76	474	17	0.03	1048	1.66
381	3	0.00	266	0.42	428	4	0.01	484	0.77	475	27	0.04	1075	1.70
382	4	0.01	270	0.43	429	5	0.01	489	0.78	476	23	0.04	1098	1.74
383	3	0.00	273	0.43	430	5	0.01	494	0.78	477	21	0.03	1119	1.77

**Table 159. Scale Score Distribution, Reading Grade 7 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
478	29	0.05	1148	1.82	525	50	0.08	2992	4.74	572	159	0.25	7762	12.30
479	19	0.03	1167	1.85	526	58	0.09	3050	4.83	573	144	0.23	7906	12.53
480	30	0.05	1197	1.90	527	59	0.09	3109	4.93	574	176	0.28	8082	12.81
481	23	0.04	1220	1.93	528	61	0.10	3170	5.02	575	170	0.27	8252	13.08
482	27	0.04	1247	1.98	529	67	0.11	3237	5.13	576	186	0.29	8438	13.37
483	32	0.05	1279	2.03	530	68	0.11	3305	5.24	577	172	0.27	8610	13.65
484	40	0.06	1319	2.09	531	69	0.11	3374	5.35	578	163	0.26	8773	13.91
485	25	0.04	1344	2.13	532	56	0.09	3430	5.44	579	177	0.28	8950	14.19
486	27	0.04	1371	2.17	533	87	0.14	3517	5.57	580	201	0.32	9151	14.50
487	25	0.04	1396	2.21	534	70	0.11	3587	5.69	581	167	0.26	9318	14.77
488	22	0.03	1418	2.25	535	76	0.12	3663	5.81	582	206	0.33	9524	15.10
489	37	0.06	1455	2.31	536	82	0.13	3745	5.94	583	179	0.28	9703	15.38
490	30	0.05	1485	2.35	537	89	0.14	3834	6.08	584	207	0.33	9910	15.71
491	26	0.04	1511	2.39	538	82	0.13	3916	6.21	585	214	0.34	10124	16.05
492	28	0.04	1539	2.44	539	80	0.13	3996	6.33	586	211	0.33	10335	16.38
493	24	0.04	1563	2.48	540	82	0.13	4078	6.46	587	227	0.36	10562	16.74
494	37	0.06	1600	2.54	541	90	0.14	4168	6.61	588	216	0.34	10778	17.08
495	35	0.06	1635	2.59	542	83	0.13	4251	6.74	589	234	0.37	11012	17.45
496	34	0.05	1669	2.65	543	97	0.15	4348	6.89	590	213	0.34	11225	17.79
497	34	0.05	1703	2.70	544	86	0.14	4434	7.03	591	231	0.37	11456	18.16
498	43	0.07	1746	2.77	545	84	0.13	4518	7.16	592	240	0.38	11696	18.54
499	36	0.06	1782	2.82	546	88	0.14	4606	7.30	593	228	0.36	11924	18.90
500	33	0.05	1815	2.88	547	68	0.11	4674	7.41	594	224	0.36	12148	19.25
501	40	0.06	1855	2.94	548	106	0.17	4780	7.58	595	201	0.32	12349	19.57
502	33	0.05	1888	2.99	549	82	0.13	4862	7.71	596	236	0.37	12585	19.95
503	38	0.06	1926	3.05	550	95	0.15	4957	7.86	597	234	0.37	12819	20.32
504	38	0.06	1964	3.11	551	98	0.16	5055	8.01	598	250	0.40	13069	20.71
505	27	0.04	1991	3.16	552	104	0.16	5159	8.18	599	271	0.43	13340	21.14
506	45	0.07	2036	3.23	553	106	0.17	5265	8.35	600	285	0.45	13625	21.60
507	35	0.06	2071	3.28	554	114	0.18	5379	8.53	601	267	0.42	13892	22.02
508	37	0.06	2108	3.34	555	100	0.16	5479	8.68	602	280	0.44	14172	22.46
509	54	0.09	2162	3.43	556	116	0.18	5595	8.87	603	279	0.44	14451	22.91
510	45	0.07	2207	3.50	557	91	0.14	5686	9.01	604	261	0.41	14712	23.32
511	41	0.06	2248	3.56	558	116	0.18	5802	9.20	605	304	0.48	15016	23.80
512	57	0.09	2305	3.65	559	130	0.21	5932	9.40	606	292	0.46	15308	24.26
513	43	0.07	2348	3.72	560	130	0.21	6062	9.61	607	258	0.41	15566	24.67
514	53	0.08	2401	3.81	561	124	0.20	6186	9.80	608	331	0.52	15897	25.20
515	56	0.09	2457	3.89	562	132	0.21	6318	10.01	609	303	0.48	16200	25.68
516	65	0.10	2522	4.00	563	129	0.20	6447	10.22	610	313	0.50	16513	26.17
517	51	0.08	2573	4.08	564	132	0.21	6579	10.43	611	325	0.52	16838	26.69
518	58	0.09	2631	4.17	565	121	0.19	6700	10.62	612	330	0.52	17168	27.21
519	45	0.07	2676	4.24	566	130	0.21	6830	10.83	613	314	0.50	17482	27.71
520	60	0.10	2736	4.34	567	157	0.25	6987	11.07	614	319	0.51	17801	28.21
521	44	0.07	2780	4.41	568	152	0.24	7139	11.32	615	293	0.46	18094	28.68
522	50	0.08	2830	4.49	569	147	0.23	7286	11.55	616	363	0.58	18457	29.25
523	55	0.09	2885	4.57	570	151	0.24	7437	11.79	617	327	0.52	18784	29.77
524	57	0.09	2942	4.66	571	166	0.26	7603	12.05	618	345	0.55	19129	30.32



**Table 159. Scale Score Distribution, Reading Grade 7 (cont’d)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
619	337	0.53	19466	30.85	666	483	0.77	39888	63.22	713	221	0.35	56836	90.09
620	341	0.54	19807	31.39	667	479	0.76	40367	63.98	714	235	0.37	57071	90.46
621	389	0.62	20196	32.01	668	440	0.70	40807	64.68	715	198	0.31	57269	90.77
622	390	0.62	20586	32.63	669	461	0.73	41268	65.41	716	201	0.32	57470	91.09
623	380	0.60	20966	33.23	670	440	0.70	41708	66.11	717	236	0.37	57706	91.46
624	372	0.59	21338	33.82	671	445	0.71	42153	66.81	718	176	0.28	57882	91.74
625	369	0.58	21707	34.41	672	485	0.77	42638	67.58	719	204	0.32	58086	92.07
626	382	0.61	22089	35.01	673	439	0.70	43077	68.28	720	189	0.30	58275	92.37
627	389	0.62	22478	35.63	674	443	0.70	43520	68.98	721	185	0.29	58460	92.66
628	399	0.63	22877	36.26	675	441	0.70	43961	69.68	722	151	0.24	58611	92.90
629	403	0.64	23280	36.90	676	418	0.66	44379	70.34	723	180	0.29	58791	93.18
630	370	0.59	23650	37.49	677	408	0.65	44787	70.99	724	171	0.27	58962	93.46
631	378	0.60	24028	38.08	678	398	0.63	45185	71.62	725	157	0.25	59119	93.70
632	445	0.71	24473	38.79	679	428	0.68	45613	72.30	726	158	0.25	59277	93.95
633	391	0.62	24864	39.41	680	449	0.71	46062	73.01	727	175	0.28	59452	94.23
634	430	0.68	25294	40.09	681	369	0.58	46431	73.59	728	159	0.25	59611	94.48
635	452	0.72	25746	40.81	682	410	0.65	46841	74.24	729	138	0.22	59749	94.70
636	433	0.69	26179	41.49	683	389	0.62	47230	74.86	730	134	0.21	59883	94.92
637	411	0.65	26590	42.15	684	415	0.66	47645	75.52	731	166	0.26	60049	95.18
638	454	0.72	27044	42.87	685	402	0.64	48047	76.16	732	131	0.21	60180	95.39
639	414	0.66	27458	43.52	686	407	0.65	48454	76.80	733	106	0.17	60286	95.55
640	420	0.67	27878	44.19	687	384	0.61	48838	77.41	734	146	0.23	60432	95.79
641	436	0.69	28314	44.88	688	399	0.63	49237	78.04	735	114	0.18	60546	95.97
642	451	0.71	28765	45.59	689	379	0.60	49616	78.64	736	105	0.17	60651	96.13
643	476	0.75	29241	46.35	690	391	0.62	50007	79.26	737	101	0.16	60752	96.29
644	408	0.65	29649	46.99	691	347	0.55	50354	79.81	738	124	0.20	60876	96.49
645	481	0.76	30130	47.76	692	390	0.62	50744	80.43	739	83	0.13	60959	96.62
646	439	0.70	30569	48.45	693	318	0.50	51062	80.93	740	100	0.16	61059	96.78
647	461	0.73	31030	49.18	694	348	0.55	51410	81.49	741	109	0.17	61168	96.95
648	453	0.72	31483	49.90	695	349	0.55	51759	82.04	742	94	0.15	61262	97.10
649	488	0.77	31971	50.67	696	345	0.55	52104	82.59	743	88	0.14	61350	97.24
650	445	0.71	32416	51.38	697	312	0.49	52416	83.08	744	75	0.12	61425	97.36
651	473	0.75	32889	52.13	698	334	0.53	52750	83.61	745	96	0.15	61521	97.51
652	458	0.73	33347	52.86	699	322	0.51	53072	84.12	746	81	0.13	61602	97.64
653	477	0.76	33824	53.61	700	316	0.50	53388	84.62	747	84	0.13	61686	97.77
654	432	0.68	34256	54.30	701	289	0.46	53677	85.08	748	82	0.13	61768	97.90
655	456	0.72	34712	55.02	702	318	0.50	53995	85.58	749	62	0.10	61830	98.00
656	493	0.78	35205	55.80	703	280	0.44	54275	86.03	750	65	0.10	61895	98.10
657	445	0.71	35650	56.51	704	276	0.44	54551	86.46	751	70	0.11	61965	98.22
658	439	0.70	36089	57.20	705	292	0.46	54843	86.93	752	69	0.11	62034	98.32
659	487	0.77	36576	57.97	706	272	0.43	55115	87.36	753	56	0.09	62090	98.41
660	479	0.76	37055	58.73	707	269	0.43	55384	87.78	754	45	0.07	62135	98.48
661	494	0.78	37549	59.52	708	243	0.39	55627	88.17	755	54	0.09	62189	98.57
662	461	0.73	38010	60.25	709	245	0.39	55872	88.56	756	52	0.08	62241	98.65
663	467	0.74	38477	60.99	710	245	0.39	56117	88.95	757	44	0.07	62285	98.72
664	478	0.76	38955	61.74	711	244	0.39	56361	89.33	758	45	0.07	62330	98.79
665	450	0.71	39405	62.46	712	254	0.40	56615	89.74	759	38	0.06	62368	98.85

**Table 159. Scale Score Distribution, Reading Grade 7 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
760	37	0.06	62405	98.91	807	1	0.00	63054	99.94
761	40	0.06	62445	98.98	808	5	0.01	63059	99.95
762	33	0.05	62478	99.03	809	2	0.00	63061	99.95
763	34	0.05	62512	99.08	810	3	0.00	63064	99.96
764	34	0.05	62546	99.14	811	1	0.00	63065	99.96
765	35	0.06	62581	99.19	814	1	0.00	63066	99.96
766	36	0.06	62617	99.25	815	1	0.00	63067	99.96
767	26	0.04	62643	99.29	816	3	0.00	63070	99.97
768	21	0.03	62664	99.32	817	1	0.00	63071	99.97
769	20	0.03	62684	99.35	818	2	0.00	63073	99.97
770	20	0.03	62704	99.39	819	2	0.00	63075	99.97
771	20	0.03	62724	99.42	820	2	0.00	63077	99.98
772	23	0.04	62747	99.45	824	4	0.01	63081	99.98
773	16	0.03	62763	99.48	829	1	0.00	63082	99.99
774	21	0.03	62784	99.51	830	2	0.00	63084	99.99
775	13	0.02	62797	99.53	833	1	0.00	63085	99.99
776	23	0.04	62820	99.57	837	1	0.00	63086	99.99
777	19	0.03	62839	99.60	845	1	0.00	63087	99.99
778	20	0.03	62859	99.63	854	1	0.00	63088	100.00
779	10	0.02	62869	99.65	862	2	0.00	63090	100.00
780	13	0.02	62882	99.67	879	1	0.00	63091	100.00
781	12	0.02	62894	99.69					
782	13	0.02	62907	99.71					
783	11	0.02	62918	99.73					
784	6	0.01	62924	99.74					
785	13	0.02	62937	99.76					
786	8	0.01	62945	99.77					
787	10	0.02	62955	99.78					
788	7	0.01	62962	99.80					
789	5	0.01	62967	99.80					
790	11	0.02	62978	99.82					
791	7	0.01	62985	99.83					
792	7	0.01	62992	99.84					
793	6	0.01	62998	99.85					
794	8	0.01	63006	99.87					
795	2	0.00	63008	99.87					
796	4	0.01	63012	99.87					
797	4	0.01	63016	99.88					
798	7	0.01	63023	99.89					
799	8	0.01	63031	99.90					
800	5	0.01	63036	99.91					
801	6	0.01	63042	99.92					
802	3	0.00	63045	99.93					
803	2	0.00	63047	99.93					
804	2	0.00	63049	99.93					
805	1	0.00	63050	99.94					
806	3	0.00	63053	99.94					

**Table 160. Scale Score Distribution, Writing Grade 7**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
240	20	0.03	20	0.03	313	2	0.00	84	0.13	364	11	0.02	282	0.45
244	1	0.00	21	0.03	315	1	0.00	85	0.13	365	11	0.02	293	0.46
245	1	0.00	22	0.03	316	3	0.00	88	0.14	366	3	0.00	296	0.47
246	1	0.00	23	0.04	317	1	0.00	89	0.14	367	10	0.02	306	0.49
247	2	0.00	25	0.04	318	1	0.00	90	0.14	368	13	0.02	319	0.51
250	1	0.00	26	0.04	319	2	0.00	92	0.15	369	8	0.01	327	0.52
251	1	0.00	27	0.04	322	1	0.00	93	0.15	370	7	0.01	334	0.53
253	1	0.00	28	0.04	323	3	0.00	96	0.15	371	15	0.02	349	0.55
256	1	0.00	29	0.05	324	4	0.01	100	0.16	372	12	0.02	361	0.57
257	1	0.00	30	0.05	325	4	0.01	104	0.16	373	14	0.02	375	0.59
258	1	0.00	31	0.05	326	1	0.00	105	0.17	374	15	0.02	390	0.62
260	1	0.00	32	0.05	327	3	0.00	108	0.17	375	13	0.02	403	0.64
261	1	0.00	33	0.05	328	4	0.01	112	0.18	376	13	0.02	416	0.66
263	2	0.00	35	0.06	329	3	0.00	115	0.18	377	12	0.02	428	0.68
264	3	0.00	38	0.06	330	3	0.00	118	0.19	378	10	0.02	438	0.69
265	1	0.00	39	0.06	331	1	0.00	119	0.19	379	12	0.02	450	0.71
266	2	0.00	41	0.06	332	5	0.01	124	0.20	380	18	0.03	468	0.74
267	1	0.00	42	0.07	333	4	0.01	128	0.20	381	13	0.02	481	0.76
268	1	0.00	43	0.07	334	3	0.00	131	0.21	382	12	0.02	493	0.78
269	2	0.00	45	0.07	335	5	0.01	136	0.22	383	14	0.02	507	0.80
270	1	0.00	46	0.07	336	1	0.00	137	0.22	384	23	0.04	530	0.84
272	1	0.00	47	0.07	337	1	0.00	138	0.22	385	11	0.02	541	0.86
273	1	0.00	48	0.08	338	2	0.00	140	0.22	386	7	0.01	548	0.87
277	2	0.00	50	0.08	340	4	0.01	144	0.23	387	19	0.03	567	0.90
278	2	0.00	52	0.08	341	6	0.01	150	0.24	388	14	0.02	581	0.92
280	1	0.00	53	0.08	342	7	0.01	157	0.25	389	23	0.04	604	0.96
281	1	0.00	54	0.09	343	3	0.00	160	0.25	390	20	0.03	624	0.99
282	1	0.00	55	0.09	344	4	0.01	164	0.26	391	15	0.02	639	1.01
284	1	0.00	56	0.09	345	3	0.00	167	0.26	392	20	0.03	659	1.04
285	2	0.00	58	0.09	346	5	0.01	172	0.27	393	21	0.03	680	1.08
287	1	0.00	59	0.09	347	4	0.01	176	0.28	394	28	0.04	708	1.12
288	1	0.00	60	0.10	348	1	0.00	177	0.28	395	18	0.03	726	1.15
289	1	0.00	61	0.10	349	4	0.01	181	0.29	396	20	0.03	746	1.18
294	4	0.01	65	0.10	350	6	0.01	187	0.30	397	23	0.04	769	1.22
295	2	0.00	67	0.11	351	5	0.01	192	0.30	398	30	0.05	799	1.27
297	1	0.00	68	0.11	352	9	0.01	201	0.32	399	29	0.05	828	1.31
298	1	0.00	69	0.11	353	7	0.01	208	0.33	400	18	0.03	846	1.34
301	1	0.00	70	0.11	354	3	0.00	211	0.33	401	28	0.04	874	1.39
302	1	0.00	71	0.11	355	10	0.02	221	0.35	402	28	0.04	902	1.43
303	1	0.00	72	0.11	356	4	0.01	225	0.36	403	31	0.05	933	1.48
305	2	0.00	74	0.12	357	6	0.01	231	0.37	404	21	0.03	954	1.51
306	2	0.00	76	0.12	358	7	0.01	238	0.38	405	28	0.04	982	1.56
308	1	0.00	77	0.12	359	11	0.02	249	0.39	406	32	0.05	1014	1.61
309	1	0.00	78	0.12	360	8	0.01	257	0.41	407	28	0.04	1042	1.65
310	1	0.00	79	0.13	361	3	0.00	260	0.41	408	27	0.04	1069	1.69
311	2	0.00	81	0.13	362	6	0.01	266	0.42	409	29	0.05	1098	1.74
312	1	0.00	82	0.13	363	5	0.01	271	0.43	410	33	0.05	1131	1.79

**Table 160. Scale Score Distribution, Writing Grade 7 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
411	36	0.06	1167	1.85	458	143	0.23	4436	7.03	505	268	0.42	13720	21.75
412	20	0.03	1187	1.88	459	143	0.23	4579	7.26	506	318	0.50	14038	22.25
413	23	0.04	1210	1.92	460	138	0.22	4717	7.48	507	279	0.44	14317	22.69
414	30	0.05	1240	1.97	461	136	0.22	4853	7.69	508	298	0.47	14615	23.17
415	36	0.06	1276	2.02	462	145	0.23	4998	7.92	509	300	0.48	14915	23.64
416	38	0.06	1314	2.08	463	134	0.21	5132	8.13	510	282	0.45	15197	24.09
417	39	0.06	1353	2.14	464	150	0.24	5282	8.37	511	280	0.44	15477	24.53
418	30	0.05	1383	2.19	465	134	0.21	5416	8.58	512	294	0.47	15771	25.00
419	45	0.07	1428	2.26	466	131	0.21	5547	8.79	513	295	0.47	16066	25.47
420	46	0.07	1474	2.34	467	167	0.26	5714	9.06	514	301	0.48	16367	25.94
421	40	0.06	1514	2.40	468	128	0.20	5842	9.26	515	314	0.50	16681	26.44
422	40	0.06	1554	2.46	469	143	0.23	5985	9.49	516	273	0.43	16954	26.87
423	48	0.08	1602	2.54	470	162	0.26	6147	9.74	517	315	0.50	17269	27.37
424	51	0.08	1653	2.62	471	170	0.27	6317	10.01	518	305	0.48	17574	27.86
425	43	0.07	1696	2.69	472	150	0.24	6467	10.25	519	308	0.49	17882	28.34
426	50	0.08	1746	2.77	473	188	0.30	6655	10.55	520	350	0.55	18232	28.90
427	52	0.08	1798	2.85	474	187	0.30	6842	10.85	521	320	0.51	18552	29.41
428	68	0.11	1866	2.96	475	157	0.25	6999	11.09	522	293	0.46	18845	29.87
429	54	0.09	1920	3.04	476	175	0.28	7174	11.37	523	312	0.49	19157	30.37
430	56	0.09	1976	3.13	477	190	0.30	7364	11.67	524	338	0.54	19495	30.90
431	68	0.11	2044	3.24	478	168	0.27	7532	11.94	525	294	0.47	19789	31.37
432	47	0.07	2091	3.31	479	185	0.29	7717	12.23	526	332	0.53	20121	31.89
433	57	0.09	2148	3.40	480	154	0.24	7871	12.48	527	370	0.59	20491	32.48
434	63	0.10	2211	3.50	481	192	0.30	8063	12.78	528	363	0.58	20854	33.06
435	70	0.11	2281	3.62	482	195	0.31	8258	13.09	529	303	0.48	21157	33.54
436	60	0.10	2341	3.71	483	222	0.35	8480	13.44	530	361	0.57	21518	34.11
437	68	0.11	2409	3.82	484	198	0.31	8678	13.76	531	352	0.56	21870	34.67
438	65	0.10	2474	3.92	485	209	0.33	8887	14.09	532	354	0.56	22224	35.23
439	68	0.11	2542	4.03	486	221	0.35	9108	14.44	533	381	0.60	22605	35.83
440	73	0.12	2615	4.15	487	193	0.31	9301	14.74	534	352	0.56	22957	36.39
441	88	0.14	2703	4.28	488	216	0.34	9517	15.09	535	365	0.58	23322	36.97
442	81	0.13	2784	4.41	489	212	0.34	9729	15.42	536	348	0.55	23670	37.52
443	70	0.11	2854	4.52	490	216	0.34	9945	15.76	537	392	0.62	24062	38.14
444	77	0.12	2931	4.65	491	233	0.37	10178	16.13	538	377	0.60	24439	38.74
445	84	0.13	3015	4.78	492	255	0.40	10433	16.54	539	345	0.55	24784	39.29
446	97	0.15	3112	4.93	493	223	0.35	10656	16.89	540	369	0.58	25153	39.87
447	94	0.15	3206	5.08	494	257	0.41	10913	17.30	541	376	0.60	25529	40.47
448	97	0.15	3303	5.24	495	232	0.37	11145	17.67	542	377	0.60	25906	41.06
449	96	0.15	3399	5.39	496	216	0.34	11361	18.01	543	399	0.63	26305	41.70
450	91	0.14	3490	5.53	497	234	0.37	11595	18.38	544	372	0.59	26677	42.29
451	123	0.19	3613	5.73	498	268	0.42	11863	18.80	545	374	0.59	27051	42.88
452	116	0.18	3729	5.91	499	241	0.38	12104	19.19	546	403	0.64	27454	43.52
453	120	0.19	3849	6.10	500	285	0.45	12389	19.64	547	387	0.61	27841	44.13
454	116	0.18	3965	6.28	501	260	0.41	12649	20.05	548	411	0.65	28252	44.78
455	98	0.16	4063	6.44	502	259	0.41	12908	20.46	549	407	0.65	28659	45.43
456	114	0.18	4177	6.62	503	282	0.45	13190	20.91	550	382	0.61	29041	46.03
457	116	0.18	4293	6.80	504	262	0.42	13452	21.32	551	379	0.60	29420	46.63

**Table 160. Scale Score Distribution, Writing Grade 7 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
552	410	0.65	29830	47.28	599	322	0.51	46673	73.98	646	139	0.22	57161	90.61
553	356	0.56	30186	47.85	600	314	0.50	46987	74.48	647	150	0.24	57311	90.84
554	378	0.60	30564	48.45	601	303	0.48	47290	74.96	648	150	0.24	57461	91.08
555	384	0.61	30948	49.06	602	323	0.51	47613	75.47	649	160	0.25	57621	91.34
556	390	0.62	31338	49.67	603	313	0.50	47926	75.97	650	136	0.22	57757	91.55
557	384	0.61	31722	50.28	604	298	0.47	48224	76.44	651	132	0.21	57889	91.76
558	401	0.64	32123	50.92	605	306	0.49	48530	76.93	652	142	0.23	58031	91.99
559	381	0.60	32504	51.52	606	265	0.42	48795	77.35	653	143	0.23	58174	92.21
560	378	0.60	32882	52.12	607	281	0.45	49076	77.79	654	118	0.19	58292	92.40
561	395	0.63	33277	52.75	608	271	0.43	49347	78.22	655	133	0.21	58425	92.61
562	389	0.62	33666	53.36	609	277	0.44	49624	78.66	656	118	0.19	58543	92.80
563	324	0.51	33990	53.88	610	281	0.45	49905	79.11	657	115	0.18	58658	92.98
564	387	0.61	34377	54.49	611	259	0.41	50164	79.52	658	107	0.17	58765	93.15
565	384	0.61	34761	55.10	612	245	0.39	50409	79.90	659	128	0.20	58893	93.35
566	393	0.62	35154	55.72	613	253	0.40	50662	80.30	660	91	0.14	58984	93.50
567	394	0.62	35548	56.35	614	266	0.42	50928	80.73	661	104	0.16	59088	93.66
568	392	0.62	35940	56.97	615	263	0.42	51191	81.14	662	121	0.19	59209	93.85
569	358	0.57	36298	57.54	616	255	0.40	51446	81.55	663	111	0.18	59320	94.03
570	399	0.63	36697	58.17	617	247	0.39	51693	81.94	664	100	0.16	59420	94.19
571	403	0.64	37100	58.81	618	242	0.38	51935	82.32	665	101	0.16	59521	94.35
572	356	0.56	37456	59.37	619	254	0.40	52189	82.73	666	103	0.16	59624	94.51
573	358	0.57	37814	59.94	620	221	0.35	52410	83.08	667	96	0.15	59720	94.66
574	356	0.56	38170	60.50	621	254	0.40	52664	83.48	668	91	0.14	59811	94.81
575	349	0.55	38519	61.06	622	217	0.34	52881	83.82	669	91	0.14	59902	94.95
576	342	0.54	38861	61.60	623	201	0.32	53082	84.14	670	84	0.13	59986	95.08
577	356	0.56	39217	62.16	624	196	0.31	53278	84.45	671	104	0.16	60090	95.25
578	384	0.61	39601	62.77	625	206	0.33	53484	84.78	672	80	0.13	60170	95.38
579	361	0.57	39962	63.34	626	201	0.32	53685	85.10	673	89	0.14	60259	95.52
580	359	0.57	40321	63.91	627	211	0.33	53896	85.43	674	89	0.14	60348	95.66
581	346	0.55	40667	64.46	628	208	0.33	54104	85.76	675	96	0.15	60444	95.81
582	347	0.55	41014	65.01	629	214	0.34	54318	86.10	676	90	0.14	60534	95.95
583	342	0.54	41356	65.55	630	188	0.30	54506	86.40	677	65	0.10	60599	96.06
584	341	0.54	41697	66.09	631	177	0.28	54683	86.68	678	81	0.13	60680	96.18
585	339	0.54	42036	66.63	632	179	0.28	54862	86.96	679	69	0.11	60749	96.29
586	349	0.55	42385	67.18	633	178	0.28	55040	87.24	680	66	0.10	60815	96.40
587	334	0.53	42719	67.71	634	178	0.28	55218	87.53	681	68	0.11	60883	96.51
588	336	0.53	43055	68.25	635	201	0.32	55419	87.85	682	71	0.11	60954	96.62
589	343	0.54	43398	68.79	636	184	0.29	55603	88.14	683	57	0.09	61011	96.71
590	340	0.54	43738	69.33	637	194	0.31	55797	88.44	684	60	0.10	61071	96.80
591	359	0.57	44097	69.90	638	156	0.25	55953	88.69	685	47	0.07	61118	96.88
592	353	0.56	44450	70.46	639	153	0.24	56106	88.93	686	53	0.08	61171	96.96
593	325	0.52	44775	70.97	640	161	0.26	56267	89.19	687	52	0.08	61223	97.05
594	325	0.52	45100	71.49	641	159	0.25	56426	89.44	688	51	0.08	61274	97.13
595	328	0.52	45428	72.01	642	151	0.24	56577	89.68	689	45	0.07	61319	97.20
596	285	0.45	45713	72.46	643	164	0.26	56741	89.94	690	59	0.09	61378	97.29
597	311	0.49	46024	72.95	644	137	0.22	56878	90.16	691	60	0.10	61438	97.39
598	327	0.52	46351	73.47	645	144	0.23	57022	90.39	692	45	0.07	61483	97.46

**Table 160. Scale Score Distribution, Writing Grade 7 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
693	46	0.07	61529	97.53	740	12	0.02	62733	99.44	790	1	0.00	62999	99.86
694	43	0.07	61572	97.60	741	11	0.02	62744	99.46	791	2	0.00	63001	99.86
695	48	0.08	61620	97.67	742	10	0.02	62754	99.47	792	4	0.01	63005	99.87
696	55	0.09	61675	97.76	743	12	0.02	62766	99.49	793	6	0.01	63011	99.88
697	43	0.07	61718	97.83	744	7	0.01	62773	99.50	795	3	0.00	63014	99.88
698	44	0.07	61762	97.90	745	11	0.02	62784	99.52	796	2	0.00	63016	99.89
699	47	0.07	61809	97.97	746	8	0.01	62792	99.53	797	2	0.00	63018	99.89
700	28	0.04	61837	98.02	747	8	0.01	62800	99.55	798	2	0.00	63020	99.89
701	36	0.06	61873	98.08	748	7	0.01	62807	99.56	801	5	0.01	63025	99.90
702	32	0.05	61905	98.13	749	15	0.02	62822	99.58	802	2	0.00	63027	99.90
703	42	0.07	61947	98.19	750	15	0.02	62837	99.60	803	3	0.00	63030	99.91
704	43	0.07	61990	98.26	751	7	0.01	62844	99.61	804	1	0.00	63031	99.91
705	31	0.05	62021	98.31	752	6	0.01	62850	99.62	805	2	0.00	63033	99.91
706	36	0.06	62057	98.37	753	3	0.00	62853	99.63	806	5	0.01	63038	99.92
707	38	0.06	62095	98.43	754	6	0.01	62859	99.64	807	8	0.01	63046	99.94
708	33	0.05	62128	98.48	755	12	0.02	62871	99.66	808	2	0.00	63048	99.94
709	30	0.05	62158	98.53	756	5	0.01	62876	99.67	812	1	0.00	63049	99.94
710	31	0.05	62189	98.58	757	9	0.01	62885	99.68	813	1	0.00	63050	99.94
711	21	0.03	62210	98.61	758	6	0.01	62891	99.69	815	1	0.00	63051	99.94
712	32	0.05	62242	98.66	759	5	0.01	62896	99.70	818	1	0.00	63052	99.94
713	33	0.05	62275	98.71	760	5	0.01	62901	99.71	820	1	0.00	63053	99.95
714	22	0.03	62297	98.75	761	2	0.00	62903	99.71	831	1	0.00	63054	99.95
715	23	0.04	62320	98.78	762	1	0.00	62904	99.71	837	1	0.00	63055	99.95
716	25	0.04	62345	98.82	763	2	0.00	62906	99.71	843	9	0.01	63064	99.96
717	16	0.03	62361	98.85	764	10	0.02	62916	99.73	852	2	0.00	63066	99.97
718	25	0.04	62386	98.89	765	4	0.01	62920	99.74	854	4	0.01	63070	99.97
719	23	0.04	62409	98.93	766	3	0.00	62923	99.74	861	3	0.00	63073	99.98
720	16	0.03	62425	98.95	767	2	0.00	62925	99.74	863	1	0.00	63074	99.98
721	26	0.04	62451	98.99	768	8	0.01	62933	99.76	887	7	0.01	63081	99.99
722	19	0.03	62470	99.02	769	3	0.00	62936	99.76	890	6	0.01	63087	100.00
723	22	0.03	62492	99.06	771	7	0.01	62943	99.77					
724	19	0.03	62511	99.09	772	11	0.02	62954	99.79					
725	11	0.02	62522	99.10	773	1	0.00	62955	99.79					
726	25	0.04	62547	99.14	774	6	0.01	62961	99.80					
727	15	0.02	62562	99.17	775	4	0.01	62965	99.81					
728	17	0.03	62579	99.19	776	1	0.00	62966	99.81					
729	15	0.02	62594	99.22	777	3	0.00	62969	99.81					
730	12	0.02	62606	99.24	778	4	0.01	62973	99.82					
731	22	0.03	62628	99.27	779	3	0.00	62976	99.82					
732	14	0.02	62642	99.29	780	1	0.00	62977	99.83					
733	10	0.02	62652	99.31	781	1	0.00	62978	99.83					
734	13	0.02	62665	99.33	782	6	0.01	62984	99.84					
735	13	0.02	62678	99.35	783	2	0.00	62986	99.84					
736	12	0.02	62690	99.37	785	3	0.00	62989	99.84					
737	10	0.02	62700	99.39	786	1	0.00	62990	99.85					
738	14	0.02	62714	99.41	787	2	0.00	62992	99.85					
739	7	0.01	62721	99.42	788	6	0.01	62998	99.86					

**Table 161. Scale Score Distribution, Mathematics Grade 7**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
280	374	0.59	374	0.59	328	9	0.01	538	0.85	375	18	0.03	1134	1.79
281	1	0.00	375	0.59	329	6	0.01	544	0.86	376	29	0.05	1163	1.84
282	1	0.00	376	0.60	330	8	0.01	552	0.87	377	15	0.02	1178	1.86
283	1	0.00	377	0.60	331	5	0.01	557	0.88	378	30	0.05	1208	1.91
284	1	0.00	378	0.60	332	8	0.01	565	0.89	379	30	0.05	1238	1.96
285	2	0.00	380	0.60	333	1	0.00	566	0.90	380	23	0.04	1261	2.00
286	1	0.00	381	0.60	334	8	0.01	574	0.91	381	26	0.04	1287	2.04
287	4	0.01	385	0.61	335	5	0.01	579	0.92	382	25	0.04	1312	2.08
288	3	0.00	388	0.61	336	10	0.02	589	0.93	383	34	0.05	1346	2.13
289	4	0.01	392	0.62	337	7	0.01	596	0.94	384	26	0.04	1372	2.17
290	2	0.00	394	0.62	338	8	0.01	604	0.96	385	28	0.04	1400	2.22
291	1	0.00	395	0.63	339	6	0.01	610	0.97	386	24	0.04	1424	2.25
292	1	0.00	396	0.63	340	5	0.01	615	0.97	387	35	0.06	1459	2.31
293	1	0.00	397	0.63	341	6	0.01	621	0.98	388	18	0.03	1477	2.34
294	1	0.00	398	0.63	342	9	0.01	630	1.00	389	31	0.05	1508	2.39
295	2	0.00	400	0.63	343	5	0.01	635	1.01	390	28	0.04	1536	2.43
296	1	0.00	401	0.63	344	15	0.02	650	1.03	391	35	0.06	1571	2.49
298	3	0.00	404	0.64	345	17	0.03	667	1.06	392	34	0.05	1605	2.54
299	1	0.00	405	0.64	346	10	0.02	677	1.07	393	25	0.04	1630	2.58
300	3	0.00	408	0.65	347	10	0.02	687	1.09	394	28	0.04	1658	2.62
301	2	0.00	410	0.65	348	10	0.02	697	1.10	395	37	0.06	1695	2.68
302	2	0.00	412	0.65	349	8	0.01	705	1.12	396	33	0.05	1728	2.73
303	4	0.01	416	0.66	350	23	0.04	728	1.15	397	41	0.06	1769	2.80
304	4	0.01	420	0.66	351	15	0.02	743	1.18	398	43	0.07	1812	2.87
305	4	0.01	424	0.67	352	15	0.02	758	1.20	399	38	0.06	1850	2.93
306	6	0.01	430	0.68	353	9	0.01	767	1.21	400	38	0.06	1888	2.99
307	2	0.00	432	0.68	354	18	0.03	785	1.24	401	42	0.07	1930	3.05
308	3	0.00	435	0.69	355	9	0.01	794	1.26	402	36	0.06	1966	3.11
309	2	0.00	437	0.69	356	16	0.03	810	1.28	403	45	0.07	2011	3.18
310	4	0.01	441	0.70	357	15	0.02	825	1.31	404	39	0.06	2050	3.24
311	4	0.01	445	0.70	358	16	0.03	841	1.33	405	31	0.05	2081	3.29
312	1	0.00	446	0.71	359	14	0.02	855	1.35	406	40	0.06	2121	3.36
313	2	0.00	448	0.71	360	15	0.02	870	1.38	407	43	0.07	2164	3.42
314	2	0.00	450	0.71	361	20	0.03	890	1.41	408	38	0.06	2202	3.49
315	4	0.01	454	0.72	362	13	0.02	903	1.43	409	53	0.08	2255	3.57
316	3	0.00	457	0.72	363	19	0.03	922	1.46	410	55	0.09	2310	3.66
317	5	0.01	462	0.73	364	13	0.02	935	1.48	411	44	0.07	2354	3.73
318	6	0.01	468	0.74	365	14	0.02	949	1.50	412	51	0.08	2405	3.81
319	1	0.00	469	0.74	366	22	0.03	971	1.54	413	54	0.09	2459	3.89
320	4	0.01	473	0.75	367	24	0.04	995	1.57	414	61	0.10	2520	3.99
321	8	0.01	481	0.76	368	13	0.02	1008	1.60	415	48	0.08	2568	4.06
322	7	0.01	488	0.77	369	16	0.03	1024	1.62	416	45	0.07	2613	4.14
323	9	0.01	497	0.79	370	16	0.03	1040	1.65	417	62	0.10	2675	4.23
324	9	0.01	506	0.80	371	23	0.04	1063	1.68	418	49	0.08	2724	4.31
325	11	0.02	517	0.82	372	16	0.03	1079	1.71	419	64	0.10	2788	4.41
326	2	0.00	519	0.82	373	10	0.02	1089	1.72	420	52	0.08	2840	4.49
327	10	0.02	529	0.84	374	27	0.04	1116	1.77	421	55	0.09	2895	4.58

**Table 161. Scale Score Distribution, Mathematics Grade 7 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
422	49	0.08	2944	4.66	469	112	0.18	7371	11.67	516	267	0.42	16449	26.03
423	73	0.12	3017	4.78	470	152	0.24	7523	11.91	517	244	0.39	16693	26.42
424	66	0.10	3083	4.88	471	145	0.23	7668	12.14	518	258	0.41	16951	26.83
425	62	0.10	3145	4.98	472	130	0.21	7798	12.34	519	260	0.41	17211	27.24
426	59	0.09	3204	5.07	473	130	0.21	7928	12.55	520	239	0.38	17450	27.62
427	69	0.11	3273	5.18	474	132	0.21	8060	12.76	521	229	0.36	17679	27.98
428	79	0.13	3352	5.31	475	139	0.22	8199	12.98	522	248	0.39	17927	28.37
429	57	0.09	3409	5.40	476	149	0.24	8348	13.21	523	268	0.42	18195	28.80
430	62	0.10	3471	5.49	477	156	0.25	8504	13.46	524	259	0.41	18454	29.21
431	88	0.14	3559	5.63	478	177	0.28	8681	13.74	525	257	0.41	18711	29.61
432	70	0.11	3629	5.74	479	144	0.23	8825	13.97	526	274	0.43	18985	30.05
433	71	0.11	3700	5.86	480	158	0.25	8983	14.22	527	291	0.46	19276	30.51
434	67	0.11	3767	5.96	481	165	0.26	9148	14.48	528	271	0.43	19547	30.94
435	70	0.11	3837	6.07	482	171	0.27	9319	14.75	529	263	0.42	19810	31.35
436	85	0.13	3922	6.21	483	171	0.27	9490	15.02	530	258	0.41	20068	31.76
437	78	0.12	4000	6.33	484	152	0.24	9642	15.26	531	254	0.40	20322	32.16
438	72	0.11	4072	6.44	485	178	0.28	9820	15.54	532	315	0.50	20637	32.66
439	80	0.13	4152	6.57	486	175	0.28	9995	15.82	533	251	0.40	20888	33.06
440	76	0.12	4228	6.69	487	172	0.27	10167	16.09	534	302	0.48	21190	33.54
441	86	0.14	4314	6.83	488	182	0.29	10349	16.38	535	269	0.43	21459	33.96
442	69	0.11	4383	6.94	489	207	0.33	10556	16.71	536	273	0.43	21732	34.40
443	74	0.12	4457	7.05	490	178	0.28	10734	16.99	537	309	0.49	22041	34.88
444	90	0.14	4547	7.20	491	185	0.29	10919	17.28	538	268	0.42	22309	35.31
445	85	0.13	4632	7.33	492	190	0.30	11109	17.58	539	301	0.48	22610	35.78
446	88	0.14	4720	7.47	493	190	0.30	11299	17.88	540	286	0.45	22896	36.24
447	103	0.16	4823	7.63	494	209	0.33	11508	18.21	541	282	0.45	23178	36.68
448	106	0.17	4929	7.80	495	210	0.33	11718	18.55	542	294	0.47	23472	37.15
449	91	0.14	5020	7.95	496	201	0.32	11919	18.86	543	290	0.46	23762	37.61
450	115	0.18	5135	8.13	497	213	0.34	12132	19.20	544	309	0.49	24071	38.10
451	110	0.17	5245	8.30	498	196	0.31	12328	19.51	545	333	0.53	24404	38.62
452	106	0.17	5351	8.47	499	196	0.31	12524	19.82	546	325	0.51	24729	39.14
453	97	0.15	5448	8.62	500	207	0.33	12731	20.15	547	333	0.53	25062	39.67
454	108	0.17	5556	8.79	501	188	0.30	12919	20.45	548	292	0.46	25354	40.13
455	105	0.17	5661	8.96	502	194	0.31	13113	20.75	549	298	0.47	25652	40.60
456	92	0.15	5753	9.11	503	223	0.35	13336	21.11	550	337	0.53	25989	41.13
457	105	0.17	5858	9.27	504	223	0.35	13559	21.46	551	308	0.49	26297	41.62
458	112	0.18	5970	9.45	505	211	0.33	13770	21.79	552	296	0.47	26593	42.09
459	99	0.16	6069	9.61	506	235	0.37	14005	22.17	553	317	0.50	26910	42.59
460	139	0.22	6208	9.83	507	216	0.34	14221	22.51	554	319	0.50	27229	43.10
461	112	0.18	6320	10.00	508	237	0.38	14458	22.88	555	319	0.50	27548	43.60
462	118	0.19	6438	10.19	509	224	0.35	14682	23.24	556	333	0.53	27881	44.13
463	124	0.20	6562	10.39	510	249	0.39	14931	23.63	557	332	0.53	28213	44.65
464	154	0.24	6716	10.63	511	234	0.37	15165	24.00	558	320	0.51	28533	45.16
465	136	0.22	6852	10.84	512	249	0.39	15414	24.40	559	306	0.48	28839	45.64
466	129	0.20	6981	11.05	513	261	0.41	15675	24.81	560	323	0.51	29162	46.15
467	141	0.22	7122	11.27	514	248	0.39	15923	25.20	561	314	0.50	29476	46.65
468	137	0.22	7259	11.49	515	259	0.41	16182	25.61	562	304	0.48	29780	47.13



**Table 161. Scale Score Distribution, Mathematics Grade 7 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
563	340	0.54	30120	47.67	610	315	0.50	45441	71.92	657	180	0.28	56880	90.02
564	314	0.50	30434	48.17	611	279	0.44	45720	72.36	658	187	0.30	57067	90.32
565	324	0.51	30758	48.68	612	306	0.48	46026	72.85	659	168	0.27	57235	90.59
566	333	0.53	31091	49.21	613	310	0.49	46336	73.34	660	151	0.24	57386	90.83
567	305	0.48	31396	49.69	614	255	0.40	46591	73.74	661	168	0.27	57554	91.09
568	338	0.53	31734	50.23	615	278	0.44	46869	74.18	662	171	0.27	57725	91.36
569	309	0.49	32043	50.71	616	285	0.45	47154	74.63	663	164	0.26	57889	91.62
570	354	0.56	32397	51.27	617	272	0.43	47426	75.06	664	144	0.23	58033	91.85
571	313	0.50	32710	51.77	618	294	0.47	47720	75.53	665	155	0.25	58188	92.09
572	343	0.54	33053	52.31	619	285	0.45	48005	75.98	666	143	0.23	58331	92.32
573	303	0.48	33356	52.79	620	278	0.44	48283	76.42	667	130	0.21	58461	92.53
574	371	0.59	33727	53.38	621	298	0.47	48581	76.89	668	150	0.24	58611	92.76
575	347	0.55	34074	53.93	622	283	0.45	48864	77.34	669	140	0.22	58751	92.99
576	338	0.53	34412	54.46	623	277	0.44	49141	77.78	670	146	0.23	58897	93.22
577	347	0.55	34759	55.01	624	291	0.46	49432	78.24	671	140	0.22	59037	93.44
578	343	0.54	35102	55.56	625	277	0.44	49709	78.67	672	146	0.23	59183	93.67
579	278	0.44	35380	56.00	626	269	0.43	49978	79.10	673	114	0.18	59297	93.85
580	328	0.52	35708	56.52	627	280	0.44	50258	79.54	674	137	0.22	59434	94.07
581	343	0.54	36051	57.06	628	235	0.37	50493	79.92	675	132	0.21	59566	94.28
582	344	0.54	36395	57.60	629	250	0.40	50743	80.31	676	102	0.16	59668	94.44
583	322	0.51	36717	58.11	630	296	0.47	51039	80.78	677	102	0.16	59770	94.60
584	319	0.50	37036	58.62	631	249	0.39	51288	81.17	678	113	0.18	59883	94.78
585	327	0.52	37363	59.13	632	271	0.43	51559	81.60	679	85	0.13	59968	94.91
586	315	0.50	37678	59.63	633	233	0.37	51792	81.97	680	109	0.17	60077	95.08
587	334	0.53	38012	60.16	634	233	0.37	52025	82.34	681	93	0.15	60170	95.23
588	301	0.48	38313	60.64	635	242	0.38	52267	82.72	682	117	0.19	60287	95.42
589	361	0.57	38674	61.21	636	251	0.40	52518	83.12	683	83	0.13	60370	95.55
590	293	0.46	38967	61.67	637	208	0.33	52726	83.45	684	111	0.18	60481	95.72
591	337	0.53	39304	62.21	638	246	0.39	52972	83.84	685	92	0.15	60573	95.87
592	341	0.54	39645	62.75	639	231	0.37	53203	84.20	686	92	0.15	60665	96.01
593	366	0.58	40011	63.33	640	235	0.37	53438	84.58	687	88	0.14	60753	96.15
594	339	0.54	40350	63.86	641	183	0.29	53621	84.87	688	86	0.14	60839	96.29
595	328	0.52	40678	64.38	642	193	0.31	53814	85.17	689	91	0.14	60930	96.43
596	331	0.52	41009	64.91	643	221	0.35	54035	85.52	690	89	0.14	61019	96.58
597	304	0.48	41313	65.39	644	220	0.35	54255	85.87	691	100	0.16	61119	96.73
598	283	0.45	41596	65.83	645	226	0.36	54481	86.23	692	72	0.11	61191	96.85
599	331	0.52	41927	66.36	646	201	0.32	54682	86.55	693	87	0.14	61278	96.98
600	354	0.56	42281	66.92	647	214	0.34	54896	86.88	694	66	0.10	61344	97.09
601	322	0.51	42603	67.43	648	193	0.31	55089	87.19	695	86	0.14	61430	97.23
602	319	0.50	42922	67.93	649	216	0.34	55305	87.53	696	82	0.13	61512	97.36
603	313	0.50	43235	68.43	650	215	0.34	55520	87.87	697	79	0.13	61591	97.48
604	331	0.52	43566	68.95	651	204	0.32	55724	88.19	698	76	0.12	61667	97.60
605	310	0.49	43876	69.44	652	199	0.31	55923	88.51	699	57	0.09	61724	97.69
606	317	0.50	44193	69.94	653	213	0.34	56136	88.85	700	69	0.11	61793	97.80
607	295	0.47	44488	70.41	654	184	0.29	56320	89.14	701	56	0.09	61849	97.89
608	294	0.47	44782	70.88	655	209	0.33	56529	89.47	702	47	0.07	61896	97.96
609	344	0.54	45126	71.42	656	171	0.27	56700	89.74	703	60	0.09	61956	98.06

**Table 161. Scale Score Distribution, Mathematics Grade 7 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
704	55	0.09	62011	98.15	751	6	0.01	63071	99.82
705	48	0.08	62059	98.22	752	8	0.01	63079	99.84
706	52	0.08	62111	98.30	753	5	0.01	63084	99.84
707	58	0.09	62169	98.40	754	5	0.01	63089	99.85
708	54	0.09	62223	98.48	755	6	0.01	63095	99.86
709	45	0.07	62268	98.55	756	10	0.02	63105	99.88
710	41	0.06	62309	98.62	757	1	0.00	63106	99.88
711	35	0.06	62344	98.67	758	3	0.00	63109	99.88
712	40	0.06	62384	98.74	759	4	0.01	63113	99.89
713	25	0.04	62409	98.77	760	6	0.01	63119	99.90
714	32	0.05	62441	98.83	761	4	0.01	63123	99.91
715	40	0.06	62481	98.89	762	6	0.01	63129	99.91
716	38	0.06	62519	98.95	763	1	0.00	63130	99.92
717	34	0.05	62553	99.00	764	1	0.00	63131	99.92
718	31	0.05	62584	99.05	765	1	0.00	63132	99.92
719	18	0.03	62602	99.08	766	3	0.00	63135	99.92
720	24	0.04	62626	99.12	767	2	0.00	63137	99.93
721	29	0.05	62655	99.16	768	2	0.00	63139	99.93
722	30	0.05	62685	99.21	769	3	0.00	63142	99.94
723	26	0.04	62711	99.25	770	2	0.00	63144	99.94
724	20	0.03	62731	99.28	771	3	0.00	63147	99.94
725	24	0.04	62755	99.32	772	1	0.00	63148	99.94
726	22	0.03	62777	99.36	773	1	0.00	63149	99.95
727	19	0.03	62796	99.39	774	2	0.00	63151	99.95
728	23	0.04	62819	99.42	777	3	0.00	63154	99.95
729	18	0.03	62837	99.45	778	1	0.00	63155	99.96
730	25	0.04	62862	99.49	781	1	0.00	63156	99.96
731	12	0.02	62874	99.51	782	2	0.00	63158	99.96
732	12	0.02	62886	99.53	783	2	0.00	63160	99.96
733	10	0.02	62896	99.55	784	3	0.00	63163	99.97
734	18	0.03	62914	99.57	786	1	0.00	63164	99.97
735	15	0.02	62929	99.60	787	1	0.00	63165	99.97
736	13	0.02	62942	99.62	790	1	0.00	63166	99.97
737	15	0.02	62957	99.64	792	1	0.00	63167	99.97
738	12	0.02	62969	99.66	794	2	0.00	63169	99.98
739	8	0.01	62977	99.67	795	2	0.00	63171	99.98
740	12	0.02	62989	99.69	797	1	0.00	63172	99.98
741	5	0.01	62994	99.70	798	1	0.00	63173	99.98
742	16	0.03	63010	99.73	800	1	0.00	63174	99.99
743	6	0.01	63016	99.74	802	1	0.00	63175	99.99
744	4	0.01	63020	99.74	804	1	0.00	63176	99.99
745	11	0.02	63031	99.76	806	2	0.00	63178	99.99
746	4	0.01	63035	99.77	808	1	0.00	63179	99.99
747	8	0.01	63043	99.78	809	1	0.00	63180	100.00
748	6	0.01	63049	99.79	817	1	0.00	63181	100.00
749	11	0.02	63060	99.81	823	1	0.00	63182	100.00
750	5	0.01	63065	99.81	854	1	0.00	63183	100.00

**Table 162. Scale Score Distribution, Reading Grade 8**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
330	152	0.25	152	0.25	397	1	0.00	248	0.40	445	5	0.01	421	0.68
331	2	0.00	154	0.25	398	4	0.01	252	0.41	446	6	0.01	427	0.69
334	1	0.00	155	0.25	399	2	0.00	254	0.41	447	4	0.01	431	0.70
336	1	0.00	156	0.25	400	3	0.00	257	0.41	448	6	0.01	437	0.71
338	1	0.00	157	0.25	401	4	0.01	261	0.42	449	6	0.01	443	0.71
339	1	0.00	158	0.25	402	4	0.01	265	0.43	450	9	0.01	452	0.73
341	1	0.00	159	0.26	403	4	0.01	269	0.43	451	6	0.01	458	0.74
343	1	0.00	160	0.26	404	4	0.01	273	0.44	452	11	0.02	469	0.76
345	1	0.00	161	0.26	405	5	0.01	278	0.45	453	9	0.01	478	0.77
346	2	0.00	163	0.26	406	1	0.00	279	0.45	454	2	0.00	480	0.77
347	1	0.00	164	0.26	407	3	0.00	282	0.46	455	10	0.02	490	0.79
348	2	0.00	166	0.27	408	4	0.01	286	0.46	456	7	0.01	497	0.80
349	2	0.00	168	0.27	409	1	0.00	287	0.46	457	8	0.01	505	0.81
350	2	0.00	170	0.27	410	3	0.00	290	0.47	458	7	0.01	512	0.83
351	2	0.00	172	0.28	412	4	0.01	294	0.47	459	7	0.01	519	0.84
353	1	0.00	173	0.28	413	4	0.01	298	0.48	460	7	0.01	526	0.85
354	1	0.00	174	0.28	414	5	0.01	303	0.49	461	12	0.02	538	0.87
356	2	0.00	176	0.28	415	2	0.00	305	0.49	462	8	0.01	546	0.88
359	1	0.00	177	0.29	416	1	0.00	306	0.49	463	13	0.02	559	0.90
361	1	0.00	178	0.29	417	2	0.00	308	0.50	464	10	0.02	569	0.92
362	1	0.00	179	0.29	418	5	0.01	313	0.51	465	7	0.01	576	0.93
364	3	0.00	182	0.29	419	2	0.00	315	0.51	466	7	0.01	583	0.94
365	3	0.00	185	0.30	420	3	0.00	318	0.51	467	4	0.01	587	0.95
366	2	0.00	187	0.30	421	3	0.00	321	0.52	468	12	0.02	599	0.97
367	2	0.00	189	0.31	422	3	0.00	324	0.52	469	13	0.02	612	0.99
369	2	0.00	191	0.31	423	3	0.00	327	0.53	470	12	0.02	624	1.01
370	1	0.00	192	0.31	424	1	0.00	328	0.53	471	9	0.01	633	1.02
372	1	0.00	193	0.31	425	5	0.01	333	0.54	472	14	0.02	647	1.04
373	2	0.00	195	0.31	426	7	0.01	340	0.55	473	14	0.02	661	1.07
374	1	0.00	196	0.32	427	1	0.00	341	0.55	474	7	0.01	668	1.08
375	3	0.00	199	0.32	428	5	0.01	346	0.56	475	11	0.02	679	1.10
376	1	0.00	200	0.32	429	3	0.00	349	0.56	476	15	0.02	694	1.12
377	4	0.01	204	0.33	430	3	0.00	352	0.57	477	14	0.02	708	1.14
379	2	0.00	206	0.33	431	2	0.00	354	0.57	478	3	0.00	711	1.15
380	4	0.01	210	0.34	432	2	0.00	356	0.57	479	11	0.02	722	1.17
381	1	0.00	211	0.34	433	3	0.00	359	0.58	480	10	0.02	732	1.18
382	4	0.01	215	0.35	434	6	0.01	365	0.59	481	15	0.02	747	1.21
383	3	0.00	218	0.35	435	3	0.00	368	0.59	482	15	0.02	762	1.23
384	3	0.00	221	0.36	436	6	0.01	374	0.60	483	13	0.02	775	1.25
386	4	0.01	225	0.36	437	5	0.01	379	0.61	484	18	0.03	793	1.28
387	4	0.01	229	0.37	438	5	0.01	384	0.62	485	14	0.02	807	1.30
389	3	0.00	232	0.37	439	4	0.01	388	0.63	486	10	0.02	817	1.32
390	1	0.00	233	0.38	440	4	0.01	392	0.63	487	12	0.02	829	1.34
392	3	0.00	236	0.38	441	7	0.01	399	0.64	488	15	0.02	844	1.36
394	4	0.01	240	0.39	442	6	0.01	405	0.65	489	27	0.04	871	1.41
395	3	0.00	243	0.39	443	5	0.01	410	0.66	490	25	0.04	896	1.45
396	4	0.01	247	0.40	444	6	0.01	416	0.67	491	16	0.03	912	1.47

**Table 162. Scale Score Distribution, Reading Grade 8 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>
492	18	0.03	930	1.50	539	61	0.10	2625	4.24	586	179	0.29	7836	12.65
493	21	0.03	951	1.53	540	59	0.10	2684	4.33	587	187	0.30	8023	12.95
494	17	0.03	968	1.56	541	59	0.10	2743	4.43	588	184	0.30	8207	13.24
495	22	0.04	990	1.60	542	46	0.07	2789	4.50	589	201	0.32	8408	13.57
496	17	0.03	1007	1.63	543	73	0.12	2862	4.62	590	228	0.37	8636	13.94
497	19	0.03	1026	1.66	544	72	0.12	2934	4.73	591	192	0.31	8828	14.25
498	19	0.03	1045	1.69	545	76	0.12	3010	4.86	592	197	0.32	9025	14.56
499	19	0.03	1064	1.72	546	64	0.10	3074	4.96	593	209	0.34	9234	14.90
500	18	0.03	1082	1.75	547	80	0.13	3154	5.09	594	221	0.36	9455	15.26
501	22	0.04	1104	1.78	548	73	0.12	3227	5.21	595	212	0.34	9667	15.60
502	20	0.03	1124	1.81	549	85	0.14	3312	5.34	596	231	0.37	9898	15.97
503	28	0.05	1152	1.86	550	85	0.14	3397	5.48	597	221	0.36	10119	16.33
504	24	0.04	1176	1.90	551	77	0.12	3474	5.61	598	235	0.38	10354	16.71
505	32	0.05	1208	1.95	552	76	0.12	3550	5.73	599	225	0.36	10579	17.07
506	32	0.05	1240	2.00	553	106	0.17	3656	5.90	600	236	0.38	10815	17.45
507	25	0.04	1265	2.04	554	102	0.16	3758	6.06	601	238	0.38	11053	17.84
508	24	0.04	1289	2.08	555	100	0.16	3858	6.23	602	245	0.40	11298	18.23
509	26	0.04	1315	2.12	556	81	0.13	3939	6.36	603	272	0.44	11570	18.67
510	29	0.05	1344	2.17	557	85	0.14	4024	6.49	604	275	0.44	11845	19.12
511	29	0.05	1373	2.22	558	96	0.15	4120	6.65	605	238	0.38	12083	19.50
512	37	0.06	1410	2.28	559	107	0.17	4227	6.82	606	254	0.41	12337	19.91
513	20	0.03	1430	2.31	560	85	0.14	4312	6.96	607	249	0.40	12586	20.31
514	33	0.05	1463	2.36	561	106	0.17	4418	7.13	608	275	0.44	12861	20.75
515	43	0.07	1506	2.43	562	104	0.17	4522	7.30	609	277	0.45	13138	21.20
516	26	0.04	1532	2.47	563	113	0.18	4635	7.48	610	301	0.49	13439	21.69
517	37	0.06	1569	2.53	564	109	0.18	4744	7.66	611	321	0.52	13760	22.21
518	39	0.06	1608	2.59	565	110	0.18	4854	7.83	612	296	0.48	14056	22.68
519	31	0.05	1639	2.64	566	110	0.18	4964	8.01	613	306	0.49	14362	23.18
520	30	0.05	1669	2.69	567	118	0.19	5082	8.20	614	299	0.48	14661	23.66
521	36	0.06	1705	2.75	568	130	0.21	5212	8.41	615	339	0.55	15000	24.21
522	36	0.06	1741	2.81	569	115	0.19	5327	8.60	616	301	0.49	15301	24.69
523	41	0.07	1782	2.88	570	127	0.20	5454	8.80	617	311	0.50	15612	25.19
524	40	0.06	1822	2.94	571	126	0.20	5580	9.00	618	325	0.52	15937	25.72
525	48	0.08	1870	3.02	572	120	0.19	5700	9.20	619	310	0.50	16247	26.22
526	40	0.06	1910	3.08	573	130	0.21	5830	9.41	620	348	0.56	16595	26.78
527	42	0.07	1952	3.15	574	138	0.22	5968	9.63	621	328	0.53	16923	27.31
528	41	0.07	1993	3.22	575	135	0.22	6103	9.85	622	331	0.53	17254	27.84
529	53	0.09	2046	3.30	576	136	0.22	6239	10.07	623	353	0.57	17607	28.41
530	42	0.07	2088	3.37	577	131	0.21	6370	10.28	624	368	0.59	17975	29.01
531	42	0.07	2130	3.44	578	122	0.20	6492	10.48	625	321	0.52	18296	29.53
532	40	0.06	2170	3.50	579	149	0.24	6641	10.72	626	369	0.60	18665	30.12
533	65	0.10	2235	3.61	580	161	0.26	6802	10.98	627	344	0.56	19009	30.68
534	71	0.11	2306	3.72	581	168	0.27	6970	11.25	628	374	0.60	19383	31.28
535	70	0.11	2376	3.83	582	168	0.27	7138	11.52	629	363	0.59	19746	31.87
536	58	0.09	2434	3.93	583	162	0.26	7300	11.78	630	375	0.61	20121	32.47
537	67	0.11	2501	4.04	584	181	0.29	7481	12.07	631	380	0.61	20501	33.08
538	63	0.10	2564	4.14	585	176	0.28	7657	12.36	632	388	0.63	20889	33.71

**Table 162. Scale Score Distribution, Reading Grade 8 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
633	422	0.68	21311	34.39	680	492	0.79	42230	68.15	727	210	0.34	57565	92.90
634	389	0.63	21700	35.02	681	403	0.65	42633	68.80	728	178	0.29	57743	93.18
635	402	0.65	22102	35.67	682	443	0.71	43076	69.52	729	183	0.30	57926	93.48
636	433	0.70	22535	36.37	683	412	0.66	43488	70.18	730	173	0.28	58099	93.76
637	376	0.61	22911	36.97	684	459	0.74	43947	70.92	731	176	0.28	58275	94.04
638	396	0.64	23307	37.61	685	386	0.62	44333	71.54	732	170	0.27	58445	94.32
639	409	0.66	23716	38.27	686	413	0.67	44746	72.21	733	160	0.26	58605	94.58
640	407	0.66	24123	38.93	687	385	0.62	45131	72.83	734	148	0.24	58753	94.81
641	422	0.68	24545	39.61	688	409	0.66	45540	73.49	735	163	0.26	58916	95.08
642	460	0.74	25005	40.35	689	399	0.64	45939	74.14	736	149	0.24	59065	95.32
643	445	0.72	25450	41.07	690	417	0.67	46356	74.81	737	129	0.21	59194	95.53
644	446	0.72	25896	41.79	691	362	0.58	46718	75.39	738	148	0.24	59342	95.77
645	441	0.71	26337	42.50	692	381	0.61	47099	76.01	739	115	0.19	59457	95.95
646	435	0.70	26772	43.20	693	379	0.61	47478	76.62	740	125	0.20	59582	96.15
647	474	0.76	27246	43.97	694	396	0.64	47874	77.26	741	111	0.18	59693	96.33
648	426	0.69	27672	44.66	695	425	0.69	48299	77.94	742	124	0.20	59817	96.53
649	442	0.71	28114	45.37	696	407	0.66	48706	78.60	743	101	0.16	59918	96.69
650	414	0.67	28528	46.04	697	380	0.61	49086	79.21	744	121	0.20	60039	96.89
651	463	0.75	28991	46.79	698	353	0.57	49439	79.78	745	82	0.13	60121	97.02
652	457	0.74	29448	47.52	699	362	0.58	49801	80.37	746	89	0.14	60210	97.17
653	429	0.69	29877	48.22	700	362	0.58	50163	80.95	747	93	0.15	60303	97.32
654	461	0.74	30338	48.96	701	337	0.54	50500	81.50	748	69	0.11	60372	97.43
655	441	0.71	30779	49.67	702	369	0.60	50869	82.09	749	88	0.14	60460	97.57
656	463	0.75	31242	50.42	703	350	0.56	51219	82.66	750	90	0.15	60550	97.71
657	486	0.78	31728	51.20	704	336	0.54	51555	83.20	751	76	0.12	60626	97.84
658	451	0.73	32179	51.93	705	349	0.56	51904	83.76	752	57	0.09	60683	97.93
659	463	0.75	32642	52.68	706	323	0.52	52227	84.28	753	64	0.10	60747	98.03
660	415	0.67	33057	53.35	707	310	0.50	52537	84.78	754	59	0.10	60806	98.13
661	458	0.74	33515	54.09	708	303	0.49	52840	85.27	755	65	0.10	60871	98.23
662	456	0.74	33971	54.82	709	302	0.49	53142	85.76	756	42	0.07	60913	98.30
663	432	0.70	34403	55.52	710	307	0.50	53449	86.26	757	56	0.09	60969	98.39
664	505	0.81	34908	56.33	711	308	0.50	53757	86.75	758	51	0.08	61020	98.47
665	494	0.80	35402	57.13	712	296	0.48	54053	87.23	759	67	0.11	61087	98.58
666	466	0.75	35868	57.88	713	265	0.43	54318	87.66	760	50	0.08	61137	98.66
667	469	0.76	36337	58.64	714	288	0.46	54606	88.12	761	55	0.09	61192	98.75
668	467	0.75	36804	59.39	715	246	0.40	54852	88.52	762	34	0.05	61226	98.81
669	460	0.74	37264	60.14	716	268	0.43	55120	88.95	763	41	0.07	61267	98.87
670	464	0.75	37728	60.89	717	235	0.38	55355	89.33	764	40	0.06	61307	98.94
671	459	0.74	38187	61.63	718	225	0.36	55580	89.69	765	35	0.06	61342	98.99
672	445	0.72	38632	62.34	719	266	0.43	55846	90.12	766	26	0.04	61368	99.03
673	440	0.71	39072	63.05	720	248	0.40	56094	90.52	767	36	0.06	61404	99.09
674	467	0.75	39539	63.81	721	228	0.37	56322	90.89	768	24	0.04	61428	99.13
675	445	0.72	39984	64.53	722	216	0.35	56538	91.24	769	32	0.05	61460	99.18
676	437	0.71	40421	65.23	723	214	0.35	56752	91.59	770	37	0.06	61497	99.24
677	428	0.69	40849	65.92	724	206	0.33	56958	91.92	771	22	0.04	61519	99.28
678	438	0.71	41287	66.63	725	199	0.32	57157	92.24	772	24	0.04	61543	99.32
679	451	0.73	41738	67.36	726	198	0.32	57355	92.56	773	24	0.04	61567	99.36

**Table 162. Scale Score Distribution, Reading Grade 8 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
774	17	0.03	61584	99.38	831	1	0.00	61952	99.98
775	22	0.04	61606	99.42	833	1	0.00	61953	99.98
776	24	0.04	61630	99.46	834	2	0.00	61955	99.98
777	27	0.04	61657	99.50	835	1	0.00	61956	99.98
778	11	0.02	61668	99.52	839	1	0.00	61957	99.99
779	15	0.02	61683	99.54	840	1	0.00	61958	99.99
780	19	0.03	61702	99.57	841	2	0.00	61960	99.99
781	19	0.03	61721	99.60	842	1	0.00	61961	99.99
782	18	0.03	61739	99.63	843	1	0.00	61962	99.99
783	15	0.02	61754	99.66	844	1	0.00	61963	100.00
784	11	0.02	61765	99.68	850	1	0.00	61964	100.00
785	8	0.01	61773	99.69	853	1	0.00	61965	100.00
786	17	0.03	61790	99.72	858	1	0.00	61966	100.00
787	12	0.02	61802	99.74					
788	5	0.01	61807	99.74					
789	11	0.02	61818	99.76					
790	13	0.02	61831	99.78					
791	9	0.01	61840	99.80					
792	11	0.02	61851	99.81					
793	10	0.02	61861	99.83					
794	8	0.01	61869	99.84					
795	10	0.02	61879	99.86					
796	5	0.01	61884	99.87					
797	9	0.01	61893	99.88					
798	6	0.01	61899	99.89					
799	6	0.01	61905	99.90					
800	3	0.00	61908	99.91					
801	3	0.00	61911	99.91					
802	1	0.00	61912	99.91					
803	2	0.00	61914	99.92					
804	3	0.00	61917	99.92					
805	2	0.00	61919	99.92					
808	4	0.01	61923	99.93					
809	2	0.00	61925	99.93					
810	1	0.00	61926	99.94					
811	1	0.00	61927	99.94					
812	1	0.00	61928	99.94					
813	1	0.00	61929	99.94					
814	6	0.01	61935	99.95					
816	1	0.00	61936	99.95					
817	5	0.01	61941	99.96					
818	2	0.00	61943	99.96					
823	1	0.00	61944	99.96					
824	3	0.00	61947	99.97					
825	2	0.00	61949	99.97					
826	1	0.00	61950	99.97					
828	1	0.00	61951	99.98					

**Table 163. Scale Score Distribution, Writing Grade 8**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
250	28	0.05	28	0.05	327	4	0.01	105	0.17	374	5	0.01	347	0.56
251	1	0.00	29	0.05	328	3	0.00	108	0.17	375	13	0.02	360	0.58
252	1	0.00	30	0.05	329	6	0.01	114	0.18	376	14	0.02	374	0.60
253	2	0.00	32	0.05	330	2	0.00	116	0.19	377	6	0.01	380	0.61
254	1	0.00	33	0.05	331	4	0.01	120	0.19	378	10	0.02	390	0.63
256	1	0.00	34	0.05	332	1	0.00	121	0.20	379	14	0.02	404	0.65
260	1	0.00	35	0.06	333	5	0.01	126	0.20	380	18	0.03	422	0.68
265	1	0.00	36	0.06	334	2	0.00	128	0.21	381	15	0.02	437	0.71
266	1	0.00	37	0.06	335	6	0.01	134	0.22	382	12	0.02	449	0.73
267	1	0.00	38	0.06	336	5	0.01	139	0.22	383	13	0.02	462	0.75
268	1	0.00	39	0.06	337	6	0.01	145	0.23	384	14	0.02	476	0.77
271	1	0.00	40	0.06	338	3	0.00	148	0.24	385	13	0.02	489	0.79
277	1	0.00	41	0.07	339	3	0.00	151	0.24	386	14	0.02	503	0.81
278	3	0.00	44	0.07	340	2	0.00	153	0.25	387	17	0.03	520	0.84
279	1	0.00	45	0.07	341	3	0.00	156	0.25	388	13	0.02	533	0.86
280	1	0.00	46	0.07	342	1	0.00	157	0.25	389	11	0.02	544	0.88
281	1	0.00	47	0.08	343	3	0.00	160	0.26	390	11	0.02	555	0.90
288	3	0.00	50	0.08	344	6	0.01	166	0.27	391	19	0.03	574	0.93
289	2	0.00	52	0.08	345	3	0.00	169	0.27	392	23	0.04	597	0.96
290	2	0.00	54	0.09	346	1	0.00	170	0.27	393	16	0.03	613	0.99
291	1	0.00	55	0.09	347	2	0.00	172	0.28	394	15	0.02	628	1.01
295	2	0.00	57	0.09	348	5	0.01	177	0.29	395	16	0.03	644	1.04
297	2	0.00	59	0.10	349	5	0.01	182	0.29	396	22	0.04	666	1.08
298	2	0.00	61	0.10	350	1	0.00	183	0.30	397	16	0.03	682	1.10
299	1	0.00	62	0.10	351	2	0.00	185	0.30	398	21	0.03	703	1.14
301	1	0.00	63	0.10	352	8	0.01	193	0.31	399	15	0.02	718	1.16
304	1	0.00	64	0.10	353	3	0.00	196	0.32	400	12	0.02	730	1.18
305	1	0.00	65	0.10	354	4	0.01	200	0.32	401	21	0.03	751	1.21
306	2	0.00	67	0.11	355	9	0.01	209	0.34	402	17	0.03	768	1.24
307	4	0.01	71	0.11	356	5	0.01	214	0.35	403	14	0.02	782	1.26
309	1	0.00	72	0.12	357	6	0.01	220	0.36	404	22	0.04	804	1.30
310	1	0.00	73	0.12	358	2	0.00	222	0.36	405	27	0.04	831	1.34
311	1	0.00	74	0.12	359	11	0.02	233	0.38	406	16	0.03	847	1.37
312	1	0.00	75	0.12	360	4	0.01	237	0.38	407	31	0.05	878	1.42
313	2	0.00	77	0.12	361	5	0.01	242	0.39	408	20	0.03	898	1.45
314	1	0.00	78	0.13	362	5	0.01	247	0.40	409	26	0.04	924	1.49
315	2	0.00	80	0.13	363	3	0.00	250	0.40	410	24	0.04	948	1.53
317	1	0.00	81	0.13	364	6	0.01	256	0.41	411	19	0.03	967	1.56
318	3	0.00	84	0.14	365	6	0.01	262	0.42	412	28	0.05	995	1.61
319	1	0.00	85	0.14	366	5	0.01	267	0.43	413	31	0.05	1026	1.66
320	2	0.00	87	0.14	367	11	0.02	278	0.45	414	30	0.05	1056	1.71
321	3	0.00	90	0.15	368	6	0.01	284	0.46	415	30	0.05	1086	1.75
322	1	0.00	91	0.15	369	11	0.02	295	0.48	416	23	0.04	1109	1.79
323	2	0.00	93	0.15	370	11	0.02	306	0.49	417	42	0.07	1151	1.86
324	4	0.01	97	0.16	371	13	0.02	319	0.52	418	32	0.05	1183	1.91
325	1	0.00	98	0.16	372	10	0.02	329	0.53	419	26	0.04	1209	1.95
326	3	0.00	101	0.16	373	13	0.02	342	0.55	420	36	0.06	1245	2.01

**Table 163. Scale Score Distribution, Writing Grade 8 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
421	33	0.05	1278	2.06	468	127	0.21	4651	7.51	515	266	0.43	13494	21.79
422	36	0.06	1314	2.12	469	131	0.21	4782	7.72	516	276	0.45	13770	22.24
423	38	0.06	1352	2.18	470	123	0.20	4905	7.92	517	284	0.46	14054	22.70
424	44	0.07	1396	2.25	471	109	0.18	5014	8.10	518	289	0.47	14343	23.16
425	32	0.05	1428	2.31	472	137	0.22	5151	8.32	519	272	0.44	14615	23.60
426	45	0.07	1473	2.38	473	125	0.20	5276	8.52	520	302	0.49	14917	24.09
427	42	0.07	1515	2.45	474	137	0.22	5413	8.74	521	286	0.46	15203	24.55
428	34	0.05	1549	2.50	475	139	0.22	5552	8.97	522	295	0.48	15498	25.03
429	39	0.06	1588	2.56	476	137	0.22	5689	9.19	523	322	0.52	15820	25.55
430	37	0.06	1625	2.62	477	165	0.27	5854	9.45	524	301	0.49	16121	26.04
431	54	0.09	1679	2.71	478	139	0.22	5993	9.68	525	285	0.46	16406	26.50
432	61	0.10	1740	2.81	479	146	0.24	6139	9.91	526	322	0.52	16728	27.02
433	59	0.10	1799	2.91	480	143	0.23	6282	10.15	527	315	0.51	17043	27.52
434	58	0.09	1857	3.00	481	162	0.26	6444	10.41	528	288	0.47	17331	27.99
435	59	0.10	1916	3.09	482	146	0.24	6590	10.64	529	305	0.49	17636	28.48
436	60	0.10	1976	3.19	483	171	0.28	6761	10.92	530	314	0.51	17950	28.99
437	49	0.08	2025	3.27	484	176	0.28	6937	11.20	531	343	0.55	18293	29.54
438	63	0.10	2088	3.37	485	176	0.28	7113	11.49	532	307	0.50	18600	30.04
439	56	0.09	2144	3.46	486	178	0.29	7291	11.78	533	326	0.53	18926	30.57
440	62	0.10	2206	3.56	487	157	0.25	7448	12.03	534	345	0.56	19271	31.12
441	80	0.13	2286	3.69	488	154	0.25	7602	12.28	535	340	0.55	19611	31.67
442	64	0.10	2350	3.80	489	173	0.28	7775	12.56	536	328	0.53	19939	32.20
443	65	0.10	2415	3.90	490	179	0.29	7954	12.85	537	327	0.53	20266	32.73
444	64	0.10	2479	4.00	491	179	0.29	8133	13.13	538	355	0.57	20621	33.30
445	56	0.09	2535	4.09	492	193	0.31	8326	13.45	539	339	0.55	20960	33.85
446	69	0.11	2604	4.21	493	194	0.31	8520	13.76	540	338	0.55	21298	34.40
447	58	0.09	2662	4.30	494	197	0.32	8717	14.08	541	378	0.61	21676	35.01
448	60	0.10	2722	4.40	495	199	0.32	8916	14.40	542	355	0.57	22031	35.58
449	69	0.11	2791	4.51	496	205	0.33	9121	14.73	543	343	0.55	22374	36.13
450	84	0.14	2875	4.64	497	189	0.31	9310	15.04	544	346	0.56	22720	36.69
451	62	0.10	2937	4.74	498	204	0.33	9514	15.37	545	369	0.60	23089	37.29
452	73	0.12	3010	4.86	499	218	0.35	9732	15.72	546	323	0.52	23412	37.81
453	96	0.16	3106	5.02	500	210	0.34	9942	16.06	547	361	0.58	23773	38.39
454	90	0.15	3196	5.16	501	198	0.32	10140	16.38	548	397	0.64	24170	39.03
455	92	0.15	3288	5.31	502	225	0.36	10365	16.74	549	333	0.54	24503	39.57
456	82	0.13	3370	5.44	503	195	0.31	10560	17.05	550	367	0.59	24870	40.17
457	103	0.17	3473	5.61	504	230	0.37	10790	17.43	551	410	0.66	25280	40.83
458	99	0.16	3572	5.77	505	230	0.37	11020	17.80	552	381	0.62	25661	41.44
459	101	0.16	3673	5.93	506	229	0.37	11249	18.17	553	351	0.57	26012	42.01
460	90	0.15	3763	6.08	507	237	0.38	11486	18.55	554	384	0.62	26396	42.63
461	110	0.18	3873	6.25	508	220	0.36	11706	18.91	555	412	0.67	26808	43.30
462	121	0.20	3994	6.45	509	256	0.41	11962	19.32	556	369	0.60	27177	43.89
463	106	0.17	4100	6.62	510	262	0.42	12224	19.74	557	387	0.63	27564	44.52
464	99	0.16	4199	6.78	511	249	0.40	12473	20.14	558	371	0.60	27935	45.12
465	99	0.16	4298	6.94	512	227	0.37	12700	20.51	559	413	0.67	28348	45.78
466	108	0.17	4406	7.12	513	261	0.42	12961	20.93	560	413	0.67	28761	46.45
467	118	0.19	4524	7.31	514	267	0.43	13228	21.36	561	388	0.63	29149	47.08



**Table 163. Scale Score Distribution, Writing Grade 8 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>
<b>562</b>	412	0.67	29561	47.74	<b>609</b>	316	0.51	46742	75.49	<b>656</b>	140	0.23	57124	92.26
<b>563</b>	403	0.65	29964	48.39	<b>610</b>	314	0.51	47056	76.00	<b>657</b>	156	0.25	57280	92.51
<b>564</b>	382	0.62	30346	49.01	<b>611</b>	281	0.45	47337	76.45	<b>658</b>	148	0.24	57428	92.75
<b>565</b>	392	0.63	30738	49.64	<b>612</b>	282	0.46	47619	76.91	<b>659</b>	102	0.16	57530	92.91
<b>566</b>	389	0.63	31127	50.27	<b>613</b>	333	0.54	47952	77.44	<b>660</b>	133	0.21	57663	93.13
<b>567</b>	411	0.66	31538	50.93	<b>614</b>	292	0.47	48244	77.91	<b>661</b>	111	0.18	57774	93.31
<b>568</b>	355	0.57	31893	51.51	<b>615</b>	285	0.46	48529	78.37	<b>662</b>	111	0.18	57885	93.49
<b>569</b>	411	0.66	32304	52.17	<b>616</b>	274	0.44	48803	78.82	<b>663</b>	118	0.19	58003	93.68
<b>570</b>	391	0.63	32695	52.80	<b>617</b>	270	0.44	49073	79.25	<b>664</b>	113	0.18	58116	93.86
<b>571</b>	373	0.60	33068	53.41	<b>618</b>	282	0.46	49355	79.71	<b>665</b>	133	0.21	58249	94.07
<b>572</b>	413	0.67	33481	54.07	<b>619</b>	268	0.43	49623	80.14	<b>666</b>	117	0.19	58366	94.26
<b>573</b>	370	0.60	33851	54.67	<b>620</b>	273	0.44	49896	80.58	<b>667</b>	112	0.18	58478	94.44
<b>574</b>	384	0.62	34235	55.29	<b>621</b>	236	0.38	50132	80.96	<b>668</b>	91	0.15	58569	94.59
<b>575</b>	424	0.68	34659	55.97	<b>622</b>	263	0.42	50395	81.39	<b>669</b>	121	0.20	58690	94.79
<b>576</b>	359	0.58	35018	56.55	<b>623</b>	253	0.41	50648	81.80	<b>670</b>	85	0.14	58775	94.92
<b>577</b>	390	0.63	35408	57.18	<b>624</b>	260	0.42	50908	82.22	<b>671</b>	81	0.13	58856	95.05
<b>578</b>	382	0.62	35790	57.80	<b>625</b>	271	0.44	51179	82.65	<b>672</b>	103	0.17	58959	95.22
<b>579</b>	402	0.65	36192	58.45	<b>626</b>	236	0.38	51415	83.04	<b>673</b>	87	0.14	59046	95.36
<b>580</b>	388	0.63	36580	59.08	<b>627</b>	235	0.38	51650	83.42	<b>674</b>	87	0.14	59133	95.50
<b>581</b>	365	0.59	36945	59.67	<b>628</b>	250	0.40	51900	83.82	<b>675</b>	86	0.14	59219	95.64
<b>582</b>	392	0.63	37337	60.30	<b>629</b>	239	0.39	52139	84.21	<b>676</b>	86	0.14	59305	95.78
<b>583</b>	385	0.62	37722	60.92	<b>630</b>	219	0.35	52358	84.56	<b>677</b>	84	0.14	59389	95.91
<b>584</b>	345	0.56	38067	61.48	<b>631</b>	236	0.38	52594	84.94	<b>678</b>	86	0.14	59475	96.05
<b>585</b>	402	0.65	38469	62.13	<b>632</b>	231	0.37	52825	85.31	<b>679</b>	65	0.10	59540	96.16
<b>586</b>	373	0.60	38842	62.73	<b>633</b>	213	0.34	53038	85.66	<b>680</b>	74	0.12	59614	96.28
<b>587</b>	349	0.56	39191	63.29	<b>634</b>	217	0.35	53255	86.01	<b>681</b>	66	0.11	59680	96.38
<b>588</b>	352	0.57	39543	63.86	<b>635</b>	219	0.35	53474	86.36	<b>682</b>	78	0.13	59758	96.51
<b>589</b>	402	0.65	39945	64.51	<b>636</b>	204	0.33	53678	86.69	<b>683</b>	54	0.09	59812	96.60
<b>590</b>	404	0.65	40349	65.16	<b>637</b>	196	0.32	53874	87.01	<b>684</b>	69	0.11	59881	96.71
<b>591</b>	327	0.53	40676	65.69	<b>638</b>	210	0.34	54084	87.35	<b>685</b>	76	0.12	59957	96.83
<b>592</b>	351	0.57	41027	66.26	<b>639</b>	203	0.33	54287	87.67	<b>686</b>	66	0.11	60023	96.94
<b>593</b>	322	0.52	41349	66.78	<b>640</b>	214	0.35	54501	88.02	<b>687</b>	52	0.08	60075	97.02
<b>594</b>	335	0.54	41684	67.32	<b>641</b>	202	0.33	54703	88.35	<b>688</b>	54	0.09	60129	97.11
<b>595</b>	378	0.61	42062	67.93	<b>642</b>	172	0.28	54875	88.62	<b>689</b>	66	0.11	60195	97.22
<b>596</b>	313	0.51	42375	68.44	<b>643</b>	190	0.31	55065	88.93	<b>690</b>	50	0.08	60245	97.30
<b>597</b>	360	0.58	42735	69.02	<b>644</b>	174	0.28	55239	89.21	<b>691</b>	43	0.07	60288	97.37
<b>598</b>	375	0.61	43110	69.62	<b>645</b>	153	0.25	55392	89.46	<b>692</b>	54	0.09	60342	97.45
<b>599</b>	332	0.54	43442	70.16	<b>646</b>	185	0.30	55577	89.76	<b>693</b>	49	0.08	60391	97.53
<b>600</b>	320	0.52	43762	70.68	<b>647</b>	176	0.28	55753	90.04	<b>694</b>	56	0.09	60447	97.62
<b>601</b>	307	0.50	44069	71.17	<b>648</b>	156	0.25	55909	90.29	<b>695</b>	56	0.09	60503	97.71
<b>602</b>	350	0.57	44419	71.74	<b>649</b>	159	0.26	56068	90.55	<b>696</b>	48	0.08	60551	97.79
<b>603</b>	322	0.52	44741	72.26	<b>650</b>	166	0.27	56234	90.82	<b>697</b>	42	0.07	60593	97.86
<b>604</b>	353	0.57	45094	72.83	<b>651</b>	156	0.25	56390	91.07	<b>698</b>	39	0.06	60632	97.92
<b>605</b>	354	0.57	45448	73.40	<b>652</b>	152	0.25	56542	91.32	<b>699</b>	42	0.07	60674	97.99
<b>606</b>	308	0.50	45756	73.90	<b>653</b>	155	0.25	56697	91.57	<b>700</b>	45	0.07	60719	98.06
<b>607</b>	324	0.52	46080	74.42	<b>654</b>	144	0.23	56841	91.80	<b>701</b>	54	0.09	60773	98.15
<b>608</b>	346	0.56	46426	74.98	<b>655</b>	143	0.23	56984	92.03	<b>702</b>	50	0.08	60823	98.23

**Table 163. Scale Score Distribution, Writing Grade 8 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
703	41	0.07	60864	98.30	750	6	0.01	61718	99.68	817	3	0.00	61892	99.96
704	31	0.05	60895	98.35	751	11	0.02	61729	99.69	822	5	0.01	61897	99.96
705	34	0.05	60929	98.40	752	3	0.00	61732	99.70	824	1	0.00	61898	99.97
706	34	0.05	60963	98.46	753	4	0.01	61736	99.70	827	5	0.01	61903	99.97
707	22	0.04	60985	98.49	754	5	0.01	61741	99.71	829	2	0.00	61905	99.98
708	33	0.05	61018	98.54	755	7	0.01	61748	99.72	830	1	0.00	61906	99.98
709	33	0.05	61051	98.60	756	5	0.01	61753	99.73	843	1	0.00	61907	99.98
710	33	0.05	61084	98.65	757	5	0.01	61758	99.74	883	5	0.01	61912	99.99
711	33	0.05	61117	98.70	758	7	0.01	61765	99.75	910	7	0.01	61919	100.00
712	25	0.04	61142	98.75	759	2	0.00	61767	99.75					
713	32	0.05	61174	98.80	760	3	0.00	61770	99.76					
714	24	0.04	61198	98.84	761	4	0.01	61774	99.77					
715	27	0.04	61225	98.88	762	5	0.01	61779	99.77					
716	23	0.04	61248	98.92	763	2	0.00	61781	99.78					
717	20	0.03	61268	98.95	764	7	0.01	61788	99.79					
718	17	0.03	61285	98.98	765	8	0.01	61796	99.80					
719	20	0.03	61305	99.01	766	5	0.01	61801	99.81					
720	22	0.04	61327	99.04	767	3	0.00	61804	99.81					
721	17	0.03	61344	99.07	768	3	0.00	61807	99.82					
722	15	0.02	61359	99.10	770	1	0.00	61808	99.82					
723	20	0.03	61379	99.13	771	1	0.00	61809	99.82					
724	17	0.03	61396	99.16	772	11	0.02	61820	99.84					
725	20	0.03	61416	99.19	773	4	0.01	61824	99.85					
726	17	0.03	61433	99.22	774	9	0.01	61833	99.86					
727	18	0.03	61451	99.24	776	2	0.00	61835	99.86					
728	20	0.03	61471	99.28	777	9	0.01	61844	99.88					
729	19	0.03	61490	99.31	778	1	0.00	61845	99.88					
730	18	0.03	61508	99.34	779	1	0.00	61846	99.88					
731	13	0.02	61521	99.36	780	3	0.00	61849	99.89					
732	12	0.02	61533	99.38	781	3	0.00	61852	99.89					
733	13	0.02	61546	99.40	782	1	0.00	61853	99.89					
734	12	0.02	61558	99.42	783	1	0.00	61854	99.90					
735	11	0.02	61569	99.43	784	1	0.00	61855	99.90					
736	12	0.02	61581	99.45	785	2	0.00	61857	99.90					
737	17	0.03	61598	99.48	787	3	0.00	61860	99.90					
738	7	0.01	61605	99.49	788	2	0.00	61862	99.91					
739	14	0.02	61619	99.52	791	2	0.00	61864	99.91					
740	15	0.02	61634	99.54	794	4	0.01	61868	99.92					
741	6	0.01	61640	99.55	795	1	0.00	61869	99.92					
742	7	0.01	61647	99.56	798	1	0.00	61870	99.92					
743	8	0.01	61655	99.57	799	3	0.00	61873	99.93					
744	6	0.01	61661	99.58	800	1	0.00	61874	99.93					
745	8	0.01	61669	99.60	802	4	0.01	61878	99.93					
746	13	0.02	61682	99.62	803	3	0.00	61881	99.94					
747	10	0.02	61692	99.63	804	1	0.00	61882	99.94					
748	14	0.02	61706	99.66	812	6	0.01	61888	99.95					
749	6	0.01	61712	99.67	814	1	0.00	61889	99.95					

**Table 164. Scale Score Distribution, Mathematics Grade 8**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
310	372	0.60	372	0.60	371	11	0.02	601	0.97	418	26	0.04	1387	2.24
312	1	0.00	373	0.60	372	7	0.01	608	0.98	419	26	0.04	1413	2.28
314	1	0.00	374	0.60	373	11	0.02	619	1.00	420	34	0.05	1447	2.33
317	2	0.00	376	0.61	374	13	0.02	632	1.02	421	20	0.03	1467	2.36
322	1	0.00	377	0.61	375	11	0.02	643	1.04	422	36	0.06	1503	2.42
324	1	0.00	378	0.61	376	7	0.01	650	1.05	423	23	0.04	1526	2.46
326	1	0.00	379	0.61	377	9	0.01	659	1.06	424	29	0.05	1555	2.51
327	1	0.00	380	0.61	378	13	0.02	672	1.08	425	31	0.05	1586	2.56
328	1	0.00	381	0.61	379	15	0.02	687	1.11	426	34	0.05	1620	2.61
329	1	0.00	382	0.62	380	5	0.01	692	1.12	427	29	0.05	1649	2.66
331	2	0.00	384	0.62	381	16	0.03	708	1.14	428	32	0.05	1681	2.71
333	2	0.00	386	0.62	382	10	0.02	718	1.16	429	32	0.05	1713	2.76
334	1	0.00	387	0.62	383	14	0.02	732	1.18	430	44	0.07	1757	2.83
335	1	0.00	388	0.63	384	13	0.02	745	1.20	431	35	0.06	1792	2.89
336	1	0.00	389	0.63	385	10	0.02	755	1.22	432	38	0.06	1830	2.95
338	1	0.00	390	0.63	386	7	0.01	762	1.23	433	47	0.08	1877	3.03
339	1	0.00	391	0.63	387	20	0.03	782	1.26	434	39	0.06	1916	3.09
341	2	0.00	393	0.63	388	22	0.04	804	1.30	435	36	0.06	1952	3.15
342	1	0.00	394	0.64	389	18	0.03	822	1.33	436	37	0.06	1989	3.21
343	1	0.00	395	0.64	390	9	0.01	831	1.34	437	41	0.07	2030	3.27
344	3	0.00	398	0.64	391	14	0.02	845	1.36	438	51	0.08	2081	3.35
345	3	0.00	401	0.65	392	11	0.02	856	1.38	439	45	0.07	2126	3.43
346	2	0.00	403	0.65	393	11	0.02	867	1.40	440	49	0.08	2175	3.51
347	2	0.00	405	0.65	394	13	0.02	880	1.42	441	57	0.09	2232	3.60
348	4	0.01	409	0.66	395	16	0.03	896	1.44	442	56	0.09	2288	3.69
349	2	0.00	411	0.66	396	20	0.03	916	1.48	443	47	0.08	2335	3.76
350	8	0.01	419	0.68	397	16	0.03	932	1.50	444	54	0.09	2389	3.85
351	7	0.01	426	0.69	398	17	0.03	949	1.53	445	48	0.08	2437	3.93
352	8	0.01	434	0.70	399	22	0.04	971	1.57	446	66	0.11	2503	4.04
353	5	0.01	439	0.71	400	14	0.02	985	1.59	447	46	0.07	2549	4.11
354	4	0.01	443	0.71	401	14	0.02	999	1.61	448	53	0.09	2602	4.19
355	8	0.01	451	0.73	402	19	0.03	1018	1.64	449	63	0.10	2665	4.30
356	8	0.01	459	0.74	403	24	0.04	1042	1.68	450	64	0.10	2729	4.40
357	11	0.02	470	0.76	404	14	0.02	1056	1.70	451	71	0.11	2800	4.51
358	6	0.01	476	0.77	405	19	0.03	1075	1.73	452	74	0.12	2874	4.63
359	9	0.01	485	0.78	406	30	0.05	1105	1.78	453	49	0.08	2923	4.71
360	11	0.02	496	0.80	407	13	0.02	1118	1.80	454	82	0.13	3005	4.84
361	13	0.02	509	0.82	408	22	0.04	1140	1.84	455	68	0.11	3073	4.95
362	6	0.01	515	0.83	409	29	0.05	1169	1.88	456	71	0.11	3144	5.07
363	11	0.02	526	0.85	410	25	0.04	1194	1.92	457	74	0.12	3218	5.19
364	8	0.01	534	0.86	411	17	0.03	1211	1.95	458	76	0.12	3294	5.31
365	11	0.02	545	0.88	412	20	0.03	1231	1.98	459	72	0.12	3366	5.43
366	10	0.02	555	0.89	413	25	0.04	1256	2.02	460	77	0.12	3443	5.55
367	11	0.02	566	0.91	414	26	0.04	1282	2.07	461	67	0.11	3510	5.66
368	7	0.01	573	0.92	415	22	0.04	1304	2.10	462	76	0.12	3586	5.78
369	5	0.01	578	0.93	416	32	0.05	1336	2.15	463	79	0.13	3665	5.91
370	12	0.02	590	0.95	417	25	0.04	1361	2.19	464	83	0.13	3748	6.04

**Table 164. Scale Score Distribution, Mathematics Grade 8 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
465	86	0.14	3834	6.18	512	188	0.30	10567	17.04	559	314	0.51	23416	37.75
466	98	0.16	3932	6.34	513	208	0.34	10775	17.37	560	315	0.51	23731	38.26
467	83	0.13	4015	6.47	514	201	0.32	10976	17.69	561	314	0.51	24045	38.76
468	83	0.13	4098	6.61	515	206	0.33	11182	18.03	562	369	0.59	24414	39.36
469	108	0.17	4206	6.78	516	208	0.34	11390	18.36	563	350	0.56	24764	39.92
470	93	0.15	4299	6.93	517	232	0.37	11622	18.74	564	331	0.53	25095	40.46
471	93	0.15	4392	7.08	518	228	0.37	11850	19.10	565	342	0.55	25437	41.01
472	89	0.14	4481	7.22	519	227	0.37	12077	19.47	566	326	0.53	25763	41.53
473	95	0.15	4576	7.38	520	240	0.39	12317	19.86	567	343	0.55	26106	42.09
474	110	0.18	4686	7.55	521	215	0.35	12532	20.20	568	339	0.55	26445	42.63
475	105	0.17	4791	7.72	522	245	0.39	12777	20.60	569	337	0.54	26782	43.18
476	118	0.19	4909	7.91	523	233	0.38	13010	20.97	570	368	0.59	27150	43.77
477	109	0.18	5018	8.09	524	239	0.39	13249	21.36	571	390	0.63	27540	44.40
478	116	0.19	5134	8.28	525	221	0.36	13470	21.71	572	342	0.55	27882	44.95
479	113	0.18	5247	8.46	526	257	0.41	13727	22.13	573	376	0.61	28258	45.55
480	146	0.24	5393	8.69	527	255	0.41	13982	22.54	574	362	0.58	28620	46.14
481	126	0.20	5519	8.90	528	247	0.40	14229	22.94	575	319	0.51	28939	46.65
482	118	0.19	5637	9.09	529	286	0.46	14515	23.40	576	354	0.57	29293	47.22
483	126	0.20	5763	9.29	530	260	0.42	14775	23.82	577	345	0.56	29638	47.78
484	137	0.22	5900	9.51	531	255	0.41	15030	24.23	578	374	0.60	30012	48.38
485	130	0.21	6030	9.72	532	249	0.40	15279	24.63	579	358	0.58	30370	48.96
486	134	0.22	6164	9.94	533	251	0.40	15530	25.04	580	360	0.58	30730	49.54
487	132	0.21	6296	10.15	534	266	0.43	15796	25.46	581	359	0.58	31089	50.12
488	134	0.22	6430	10.37	535	257	0.41	16053	25.88	582	373	0.60	31462	50.72
489	126	0.20	6556	10.57	536	286	0.46	16339	26.34	583	341	0.55	31803	51.27
490	155	0.25	6711	10.82	537	278	0.45	16617	26.79	584	349	0.56	32152	51.83
491	166	0.27	6877	11.09	538	324	0.52	16941	27.31	585	356	0.57	32508	52.41
492	143	0.23	7020	11.32	539	289	0.47	17230	27.78	586	352	0.57	32860	52.97
493	135	0.22	7155	11.53	540	255	0.41	17485	28.19	587	328	0.53	33188	53.50
494	155	0.25	7310	11.78	541	302	0.49	17787	28.67	588	350	0.56	33538	54.07
495	156	0.25	7466	12.04	542	314	0.51	18101	29.18	589	370	0.60	33908	54.66
496	174	0.28	7640	12.32	543	292	0.47	18393	29.65	590	395	0.64	34303	55.30
497	158	0.25	7798	12.57	544	257	0.41	18650	30.07	591	386	0.62	34689	55.92
498	164	0.26	7962	12.84	545	321	0.52	18971	30.58	592	368	0.59	35057	56.52
499	170	0.27	8132	13.11	546	302	0.49	19273	31.07	593	335	0.54	35392	57.06
500	151	0.24	8283	13.35	547	321	0.52	19594	31.59	594	362	0.58	35754	57.64
501	168	0.27	8451	13.62	548	312	0.50	19906	32.09	595	352	0.57	36106	58.21
502	158	0.25	8609	13.88	549	332	0.54	20238	32.63	596	391	0.63	36497	58.84
503	164	0.26	8773	14.14	550	294	0.47	20532	33.10	597	409	0.66	36906	59.50
504	190	0.31	8963	14.45	551	303	0.49	20835	33.59	598	364	0.59	37270	60.08
505	206	0.33	9169	14.78	552	331	0.53	21166	34.12	599	346	0.56	37616	60.64
506	207	0.33	9376	15.12	553	287	0.46	21453	34.58	600	349	0.56	37965	61.20
507	198	0.32	9574	15.43	554	358	0.58	21811	35.16	601	358	0.58	38323	61.78
508	198	0.32	9772	15.75	555	319	0.51	22130	35.68	602	328	0.53	38651	62.31
509	204	0.33	9976	16.08	556	331	0.53	22461	36.21	603	346	0.56	38997	62.87
510	202	0.33	10178	16.41	557	307	0.49	22768	36.70	604	375	0.60	39372	63.47
511	201	0.32	10379	16.73	558	334	0.54	23102	37.24	605	351	0.57	39723	64.04

**Table 164. Scale Score Distribution, Mathematics Grade 8 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
606	389	0.63	40112	64.66	653	243	0.39	53963	86.99	700	72	0.12	60522	97.57
607	363	0.59	40475	65.25	654	212	0.34	54175	87.34	701	63	0.10	60585	97.67
608	343	0.55	40818	65.80	655	254	0.41	54429	87.74	702	54	0.09	60639	97.76
609	339	0.55	41157	66.35	656	215	0.35	54644	88.09	703	51	0.08	60690	97.84
610	363	0.59	41520	66.93	657	201	0.32	54845	88.42	704	42	0.07	60732	97.91
611	348	0.56	41868	67.50	658	213	0.34	55058	88.76	705	68	0.11	60800	98.02
612	347	0.56	42215	68.05	659	201	0.32	55259	89.08	706	49	0.08	60849	98.09
613	336	0.54	42551	68.60	660	166	0.27	55425	89.35	707	43	0.07	60892	98.16
614	341	0.55	42892	69.15	661	180	0.29	55605	89.64	708	51	0.08	60943	98.25
615	338	0.54	43230	69.69	662	192	0.31	55797	89.95	709	37	0.06	60980	98.31
616	304	0.49	43534	70.18	663	196	0.32	55993	90.27	710	47	0.08	61027	98.38
617	306	0.49	43840	70.67	664	216	0.35	56209	90.61	711	42	0.07	61069	98.45
618	330	0.53	44170	71.21	665	190	0.31	56399	90.92	712	48	0.08	61117	98.53
619	332	0.54	44502	71.74	666	176	0.28	56575	91.20	713	41	0.07	61158	98.59
620	327	0.53	44829	72.27	667	148	0.24	56723	91.44	714	41	0.07	61199	98.66
621	308	0.50	45137	72.77	668	173	0.28	56896	91.72	715	29	0.05	61228	98.71
622	309	0.50	45446	73.26	669	180	0.29	57076	92.01	716	33	0.05	61261	98.76
623	295	0.48	45741	73.74	670	170	0.27	57246	92.29	717	39	0.06	61300	98.82
624	300	0.48	46041	74.22	671	166	0.27	57412	92.55	718	28	0.05	61328	98.87
625	330	0.53	46371	74.75	672	137	0.22	57549	92.77	719	30	0.05	61358	98.92
626	310	0.50	46681	75.25	673	138	0.22	57687	93.00	720	35	0.06	61393	98.97
627	331	0.53	47012	75.79	674	164	0.26	57851	93.26	721	34	0.05	61427	99.03
628	295	0.48	47307	76.26	675	163	0.26	58014	93.52	722	35	0.06	61462	99.08
629	325	0.52	47632	76.79	676	155	0.25	58169	93.77	723	26	0.04	61488	99.12
630	317	0.51	47949	77.30	677	128	0.21	58297	93.98	724	23	0.04	61511	99.16
631	335	0.54	48284	77.84	678	154	0.25	58451	94.23	725	30	0.05	61541	99.21
632	313	0.50	48597	78.34	679	123	0.20	58574	94.43	726	18	0.03	61559	99.24
633	284	0.46	48881	78.80	680	116	0.19	58690	94.61	727	17	0.03	61576	99.27
634	287	0.46	49168	79.26	681	109	0.18	58799	94.79	728	15	0.02	61591	99.29
635	311	0.50	49479	79.76	682	149	0.24	58948	95.03	729	20	0.03	61611	99.32
636	249	0.40	49728	80.17	683	96	0.15	59044	95.18	730	12	0.02	61623	99.34
637	277	0.45	50005	80.61	684	97	0.16	59141	95.34	731	14	0.02	61637	99.36
638	273	0.44	50278	81.05	685	108	0.17	59249	95.52	732	21	0.03	61658	99.40
639	298	0.48	50576	81.53	686	101	0.16	59350	95.68	733	22	0.04	61680	99.43
640	268	0.43	50844	81.97	687	103	0.17	59453	95.84	734	15	0.02	61695	99.46
641	237	0.38	51081	82.35	688	108	0.17	59561	96.02	735	12	0.02	61707	99.48
642	252	0.41	51333	82.75	689	89	0.14	59650	96.16	736	12	0.02	61719	99.50
643	278	0.45	51611	83.20	690	98	0.16	59748	96.32	737	13	0.02	61732	99.52
644	259	0.42	51870	83.62	691	83	0.13	59831	96.45	738	12	0.02	61744	99.54
645	211	0.34	52081	83.96	692	86	0.14	59917	96.59	739	11	0.02	61755	99.56
646	244	0.39	52325	84.35	693	82	0.13	59999	96.72	740	8	0.01	61763	99.57
647	228	0.37	52553	84.72	694	61	0.10	60060	96.82	741	11	0.02	61774	99.59
648	228	0.37	52781	85.09	695	79	0.13	60139	96.95	742	12	0.02	61786	99.61
649	230	0.37	53011	85.46	696	90	0.15	60229	97.10	743	11	0.02	61797	99.62
650	242	0.39	53253	85.85	697	80	0.13	60309	97.22	744	11	0.02	61808	99.64
651	237	0.38	53490	86.23	698	70	0.11	60379	97.34	745	10	0.02	61818	99.66
652	230	0.37	53720	86.60	699	71	0.11	60450	97.45	746	13	0.02	61831	99.68

**Table 164. Scale Score Distribution, Mathematics Grade 8 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
747	13	0.02	61844	99.70	808	1	0.00	62022	99.99
748	8	0.01	61852	99.71	810	1	0.00	62023	99.99
749	9	0.01	61861	99.73	820	1	0.00	62024	99.99
750	8	0.01	61869	99.74	829	2	0.00	62026	99.99
751	10	0.02	61879	99.75	833	1	0.00	62027	99.99
752	10	0.02	61889	99.77	842	1	0.00	62028	100.00
753	8	0.01	61897	99.78	851	1	0.00	62029	100.00
754	7	0.01	61904	99.80	890	2	0.00	62031	100.00
755	6	0.01	61910	99.80					
756	8	0.01	61918	99.82					
757	2	0.00	61920	99.82					
758	1	0.00	61921	99.82					
759	5	0.01	61926	99.83					
760	2	0.00	61928	99.83					
761	4	0.01	61932	99.84					
762	3	0.00	61935	99.85					
763	6	0.01	61941	99.85					
764	6	0.01	61947	99.86					
765	8	0.01	61955	99.88					
766	5	0.01	61960	99.89					
767	6	0.01	61966	99.90					
768	4	0.01	61970	99.90					
769	5	0.01	61975	99.91					
770	3	0.00	61978	99.91					
771	1	0.00	61979	99.92					
772	2	0.00	61981	99.92					
773	2	0.00	61983	99.92					
774	1	0.00	61984	99.92					
775	1	0.00	61985	99.93					
778	3	0.00	61988	99.93					
779	2	0.00	61990	99.93					
780	1	0.00	61991	99.94					
781	3	0.00	61994	99.94					
782	2	0.00	61996	99.94					
783	2	0.00	61998	99.95					
784	5	0.01	62003	99.95					
785	2	0.00	62005	99.96					
786	2	0.00	62007	99.96					
787	2	0.00	62009	99.96					
788	1	0.00	62010	99.97					
791	1	0.00	62011	99.97					
794	1	0.00	62012	99.97					
797	2	0.00	62014	99.97					
798	2	0.00	62016	99.98					
799	1	0.00	62017	99.98					
802	2	0.00	62019	99.98					
807	2	0.00	62021	99.98					

**Table 165. Scale Score Distribution, Reading Grade 9**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
350	169	0.27	169	0.27	483	3	0.00	276	0.45	530	23	0.04	724	1.17
364	1	0.00	170	0.28	484	6	0.01	282	0.46	531	21	0.03	745	1.21
374	1	0.00	171	0.28	485	6	0.01	288	0.47	532	26	0.04	771	1.25
376	1	0.00	172	0.28	486	5	0.01	293	0.48	533	23	0.04	794	1.29
382	1	0.00	173	0.28	487	4	0.01	297	0.48	534	26	0.04	820	1.33
417	1	0.00	174	0.28	488	1	0.00	298	0.48	535	24	0.04	844	1.37
424	1	0.00	175	0.28	489	5	0.01	303	0.49	536	24	0.04	868	1.41
427	1	0.00	176	0.29	490	2	0.00	305	0.49	537	30	0.05	898	1.46
431	2	0.00	178	0.29	491	9	0.01	314	0.51	538	24	0.04	922	1.50
433	1	0.00	179	0.29	492	4	0.01	318	0.52	539	24	0.04	946	1.53
434	1	0.00	180	0.29	493	3	0.00	321	0.52	540	30	0.05	976	1.58
436	2	0.00	182	0.30	494	6	0.01	327	0.53	541	32	0.05	1008	1.64
437	1	0.00	183	0.30	495	5	0.01	332	0.54	542	53	0.09	1061	1.72
438	2	0.00	185	0.30	496	8	0.01	340	0.55	543	34	0.06	1095	1.78
440	3	0.00	188	0.30	497	5	0.01	345	0.56	544	47	0.08	1142	1.85
441	1	0.00	189	0.31	498	3	0.00	348	0.56	545	42	0.07	1184	1.92
442	1	0.00	190	0.31	499	5	0.01	353	0.57	546	47	0.08	1231	2.00
445	1	0.00	191	0.31	500	4	0.01	357	0.58	547	48	0.08	1279	2.07
447	4	0.01	195	0.32	501	9	0.01	366	0.59	548	61	0.10	1340	2.17
448	2	0.00	197	0.32	502	5	0.01	371	0.60	549	54	0.09	1394	2.26
450	2	0.00	199	0.32	503	4	0.01	375	0.61	550	47	0.08	1441	2.34
451	1	0.00	200	0.32	504	7	0.01	382	0.62	551	46	0.07	1487	2.41
452	2	0.00	202	0.33	505	6	0.01	388	0.63	552	54	0.09	1541	2.50
454	2	0.00	204	0.33	506	7	0.01	395	0.64	553	60	0.10	1601	2.60
455	3	0.00	207	0.34	507	2	0.00	397	0.64	554	49	0.08	1650	2.68
456	3	0.00	210	0.34	508	7	0.01	404	0.66	555	39	0.06	1689	2.74
458	3	0.00	213	0.35	509	9	0.01	413	0.67	556	45	0.07	1734	2.81
459	2	0.00	215	0.35	510	10	0.02	423	0.69	557	60	0.10	1794	2.91
460	3	0.00	218	0.35	511	9	0.01	432	0.70	558	67	0.11	1861	3.02
461	3	0.00	221	0.36	512	7	0.01	439	0.71	559	76	0.12	1937	3.14
463	3	0.00	224	0.36	513	14	0.02	453	0.73	560	72	0.12	2009	3.26
464	4	0.01	228	0.37	514	12	0.02	465	0.75	561	65	0.11	2074	3.36
465	2	0.00	230	0.37	515	8	0.01	473	0.77	562	67	0.11	2141	3.47
466	2	0.00	232	0.38	516	13	0.02	486	0.79	563	65	0.11	2206	3.58
467	3	0.00	235	0.38	517	10	0.02	496	0.80	564	78	0.13	2284	3.71
468	3	0.00	238	0.39	518	7	0.01	503	0.82	565	75	0.12	2359	3.83
469	2	0.00	240	0.39	519	14	0.02	517	0.84	566	62	0.10	2421	3.93
470	1	0.00	241	0.39	520	19	0.03	536	0.87	567	87	0.14	2508	4.07
471	4	0.01	245	0.40	521	21	0.03	557	0.90	568	69	0.11	2577	4.18
472	2	0.00	247	0.40	522	18	0.03	575	0.93	569	80	0.13	2657	4.31
473	1	0.00	248	0.40	523	16	0.03	591	0.96	570	95	0.15	2752	4.46
474	2	0.00	250	0.41	524	17	0.03	608	0.99	571	97	0.16	2849	4.62
476	3	0.00	253	0.41	525	17	0.03	625	1.01	572	111	0.18	2960	4.80
477	4	0.01	257	0.42	526	19	0.03	644	1.04	573	100	0.16	3060	4.96
478	6	0.01	263	0.43	527	27	0.04	671	1.09	574	93	0.15	3153	5.11
481	7	0.01	270	0.44	528	13	0.02	684	1.11	575	105	0.17	3258	5.29
482	3	0.00	273	0.44	529	17	0.03	701	1.14	576	114	0.18	3372	5.47

**Table 165. Scale Score Distribution, Reading Grade 9 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
577	94	0.15	3466	5.62	624	297	0.48	13308	21.59	671	526	0.85	35895	58.23
578	116	0.19	3582	5.81	625	348	0.56	13656	22.15	672	537	0.87	36432	59.10
579	125	0.20	3707	6.01	626	375	0.61	14031	22.76	673	582	0.94	37014	60.04
580	104	0.17	3811	6.18	627	363	0.59	14394	23.35	674	559	0.91	37573	60.95
581	121	0.20	3932	6.38	628	355	0.58	14749	23.93	675	563	0.91	38136	61.86
582	126	0.20	4058	6.58	629	365	0.59	15114	24.52	676	527	0.85	38663	62.72
583	120	0.19	4178	6.78	630	379	0.61	15493	25.13	677	551	0.89	39214	63.61
584	136	0.22	4314	7.00	631	378	0.61	15871	25.75	678	542	0.88	39756	64.49
585	130	0.21	4444	7.21	632	384	0.62	16255	26.37	679	528	0.86	40284	65.35
586	148	0.24	4592	7.45	633	409	0.66	16664	27.03	680	526	0.85	40810	66.20
587	146	0.24	4738	7.69	634	430	0.70	17094	27.73	681	494	0.80	41304	67.00
588	154	0.25	4892	7.94	635	407	0.66	17501	28.39	682	522	0.85	41826	67.85
589	124	0.20	5016	8.14	636	455	0.74	17956	29.13	683	508	0.82	42334	68.67
590	136	0.22	5152	8.36	637	407	0.66	18363	29.79	684	497	0.81	42831	69.48
591	169	0.27	5321	8.63	638	454	0.74	18817	30.52	685	495	0.80	43326	70.28
592	128	0.21	5449	8.84	639	458	0.74	19275	31.27	686	506	0.82	43832	71.10
593	169	0.27	5618	9.11	640	476	0.77	19751	32.04	687	450	0.73	44282	71.83
594	161	0.26	5779	9.37	641	442	0.72	20193	32.76	688	517	0.84	44799	72.67
595	177	0.29	5956	9.66	642	466	0.76	20659	33.51	689	498	0.81	45297	73.48
596	198	0.32	6154	9.98	643	480	0.78	21139	34.29	690	457	0.74	45754	74.22
597	187	0.30	6341	10.29	644	462	0.75	21601	35.04	691	475	0.77	46229	74.99
598	179	0.29	6520	10.58	645	503	0.82	22104	35.86	692	514	0.83	46743	75.83
599	177	0.29	6697	10.86	646	458	0.74	22562	36.60	693	473	0.77	47216	76.59
600	188	0.30	6885	11.17	647	474	0.77	23036	37.37	694	410	0.67	47626	77.26
601	212	0.34	7097	11.51	648	524	0.85	23560	38.22	695	481	0.78	48107	78.04
602	211	0.34	7308	11.85	649	519	0.84	24079	39.06	696	425	0.69	48532	78.73
603	199	0.32	7507	12.18	650	501	0.81	24580	39.87	697	436	0.71	48968	79.44
604	216	0.35	7723	12.53	651	455	0.74	25035	40.61	698	423	0.69	49391	80.12
605	244	0.40	7967	12.92	652	474	0.77	25509	41.38	699	418	0.68	49809	80.80
606	233	0.38	8200	13.30	653	538	0.87	26047	42.25	700	396	0.64	50205	81.44
607	243	0.39	8443	13.70	654	471	0.76	26518	43.02	701	398	0.65	50603	82.09
608	249	0.40	8692	14.10	655	535	0.87	27053	43.89	702	387	0.63	50990	82.72
609	242	0.39	8934	14.49	656	515	0.84	27568	44.72	703	401	0.65	51391	83.37
610	246	0.40	9180	14.89	657	541	0.88	28109	45.60	704	348	0.56	51739	83.93
611	251	0.41	9431	15.30	658	559	0.91	28668	46.50	705	346	0.56	52085	84.49
612	248	0.40	9679	15.70	659	567	0.92	29235	47.42	706	347	0.56	52432	85.05
613	273	0.44	9952	16.14	660	555	0.90	29790	48.33	707	345	0.56	52777	85.61
614	274	0.44	10226	16.59	661	564	0.91	30354	49.24	708	366	0.59	53143	86.21
615	309	0.50	10535	17.09	662	554	0.90	30908	50.14	709	336	0.55	53479	86.75
616	268	0.43	10803	17.52	663	545	0.88	31453	51.02	710	333	0.54	53812	87.29
617	299	0.49	11102	18.01	664	542	0.88	31995	51.90	711	312	0.51	54124	87.80
618	285	0.46	11387	18.47	665	562	0.91	32557	52.81	712	270	0.44	54394	88.24
619	318	0.52	11705	18.99	666	519	0.84	33076	53.66	713	324	0.53	54718	88.76
620	315	0.51	12020	19.50	667	583	0.95	33659	54.60	714	335	0.54	55053	89.31
621	300	0.49	12320	19.99	668	557	0.90	34216	55.50	715	266	0.43	55319	89.74
622	350	0.57	12670	20.55	669	597	0.97	34813	56.47	716	265	0.43	55584	90.17
623	341	0.55	13011	21.11	670	556	0.90	35369	57.38	717	263	0.43	55847	90.59



**Table 165. Scale Score Distribution, Reading Grade 9 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>	<b>SS</b>	<b>Freq</b>	<b>%</b>	<b>Cum Freq</b>	<b>Cum %</b>
718	270	0.44	56117	91.03	765	24	0.04	61307	99.45	823	1	0.00	61634	99.98
719	242	0.39	56359	91.43	766	29	0.05	61336	99.50	824	1	0.00	61635	99.98
720	243	0.39	56602	91.82	767	23	0.04	61359	99.54	825	1	0.00	61636	99.99
721	292	0.47	56894	92.29	768	17	0.03	61376	99.56	831	1	0.00	61637	99.99
722	251	0.41	57145	92.70	769	12	0.02	61388	99.58	834	2	0.00	61639	99.99
723	209	0.34	57354	93.04	770	17	0.03	61405	99.61	837	1	0.00	61640	99.99
724	233	0.38	57587	93.42	771	24	0.04	61429	99.65	841	1	0.00	61641	99.99
725	208	0.34	57795	93.75	772	9	0.01	61438	99.66	852	1	0.00	61642	100.00
726	198	0.32	57993	94.08	773	11	0.02	61449	99.68	857	1	0.00	61643	100.00
727	187	0.30	58180	94.38	774	16	0.03	61465	99.71	878	1	0.00	61644	100.00
728	159	0.26	58339	94.64	775	20	0.03	61485	99.74	886	1	0.00	61645	100.00
729	156	0.25	58495	94.89	776	19	0.03	61504	99.77					
730	157	0.25	58652	95.14	777	12	0.02	61516	99.79					
731	169	0.27	58821	95.42	778	6	0.01	61522	99.80					
732	153	0.25	58974	95.67	779	7	0.01	61529	99.81					
733	141	0.23	59115	95.90	780	8	0.01	61537	99.82					
734	135	0.22	59250	96.11	781	4	0.01	61541	99.83					
735	129	0.21	59379	96.32	782	10	0.02	61551	99.85					
736	117	0.19	59496	96.51	783	7	0.01	61558	99.86					
737	128	0.21	59624	96.72	784	4	0.01	61562	99.87					
738	112	0.18	59736	96.90	785	5	0.01	61567	99.87					
739	109	0.18	59845	97.08	786	3	0.00	61570	99.88					
740	95	0.15	59940	97.23	787	6	0.01	61576	99.89					
741	85	0.14	60025	97.37	788	2	0.00	61578	99.89					
742	94	0.15	60119	97.52	789	2	0.00	61580	99.89					
743	87	0.14	60206	97.67	790	3	0.00	61583	99.90					
744	96	0.16	60302	97.82	791	5	0.01	61588	99.91					
745	65	0.11	60367	97.93	792	2	0.00	61590	99.91					
746	96	0.16	60463	98.08	793	3	0.00	61593	99.92					
747	85	0.14	60548	98.22	794	7	0.01	61600	99.93					
748	77	0.12	60625	98.35	796	5	0.01	61605	99.94					
749	72	0.12	60697	98.46	797	2	0.00	61607	99.94					
750	67	0.11	60764	98.57	798	3	0.00	61610	99.94					
751	51	0.08	60815	98.65	799	3	0.00	61613	99.95					
752	56	0.09	60871	98.74	800	1	0.00	61614	99.95					
753	59	0.10	60930	98.84	801	2	0.00	61616	99.95					
754	51	0.08	60981	98.92	802	2	0.00	61618	99.96					
755	39	0.06	61020	98.99	803	3	0.00	61621	99.96					
756	35	0.06	61055	99.04	804	3	0.00	61624	99.97					
757	39	0.06	61094	99.11	805	2	0.00	61626	99.97					
758	29	0.05	61123	99.15	807	1	0.00	61627	99.97					
759	34	0.06	61157	99.21	808	1	0.00	61628	99.97					
760	32	0.05	61189	99.26	813	1	0.00	61629	99.97					
761	30	0.05	61219	99.31	814	1	0.00	61630	99.98					
762	23	0.04	61242	99.35	815	1	0.00	61631	99.98					
763	25	0.04	61267	99.39	818	1	0.00	61632	99.98					
764	16	0.03	61283	99.41	822	1	0.00	61633	99.98					

**Table 166. Scale Score Distribution, Writing Grade 9**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
260	68	0.11	68	0.11	328	1	0.00	157	0.25	375	15	0.02	505	0.82
262	2	0.00	70	0.11	329	1	0.00	158	0.26	376	12	0.02	517	0.84
263	2	0.00	72	0.12	330	6	0.01	164	0.27	377	15	0.02	532	0.86
269	1	0.00	73	0.12	331	3	0.00	167	0.27	378	12	0.02	544	0.88
270	1	0.00	74	0.12	332	3	0.00	170	0.28	379	11	0.02	555	0.90
271	2	0.00	76	0.12	333	4	0.01	174	0.28	380	14	0.02	569	0.92
272	3	0.00	79	0.13	334	1	0.00	175	0.28	381	11	0.02	580	0.94
274	2	0.00	81	0.13	335	4	0.01	179	0.29	382	19	0.03	599	0.97
275	1	0.00	82	0.13	336	5	0.01	184	0.30	383	13	0.02	612	0.99
276	1	0.00	83	0.13	337	4	0.01	188	0.30	384	18	0.03	630	1.02
281	3	0.00	86	0.14	338	5	0.01	193	0.31	385	15	0.02	645	1.05
283	2	0.00	88	0.14	339	3	0.00	196	0.32	386	14	0.02	659	1.07
285	1	0.00	89	0.14	340	7	0.01	203	0.33	387	17	0.03	676	1.10
286	2	0.00	91	0.15	341	6	0.01	209	0.34	388	15	0.02	691	1.12
287	1	0.00	92	0.15	342	4	0.01	213	0.35	389	20	0.03	711	1.15
288	1	0.00	93	0.15	343	14	0.02	227	0.37	390	9	0.01	720	1.17
289	1	0.00	94	0.15	344	5	0.01	232	0.38	391	18	0.03	738	1.20
290	1	0.00	95	0.15	345	3	0.00	235	0.38	392	15	0.02	753	1.22
291	2	0.00	97	0.16	346	3	0.00	238	0.39	393	17	0.03	770	1.25
292	1	0.00	98	0.16	347	5	0.01	243	0.39	394	20	0.03	790	1.28
294	2	0.00	100	0.16	348	2	0.00	245	0.40	395	19	0.03	809	1.31
297	1	0.00	101	0.16	349	6	0.01	251	0.41	396	16	0.03	825	1.34
300	1	0.00	102	0.17	350	9	0.01	260	0.42	397	19	0.03	844	1.37
301	1	0.00	103	0.17	351	6	0.01	266	0.43	398	14	0.02	858	1.39
302	2	0.00	105	0.17	352	6	0.01	272	0.44	399	13	0.02	871	1.41
304	2	0.00	107	0.17	353	4	0.01	276	0.45	400	18	0.03	889	1.44
305	2	0.00	109	0.18	354	7	0.01	283	0.46	401	18	0.03	907	1.47
306	1	0.00	110	0.18	355	7	0.01	290	0.47	402	18	0.03	925	1.50
307	1	0.00	111	0.18	356	6	0.01	296	0.48	403	21	0.03	946	1.53
308	2	0.00	113	0.18	357	10	0.02	306	0.50	404	28	0.05	974	1.58
309	2	0.00	115	0.19	358	12	0.02	318	0.52	405	23	0.04	997	1.62
310	1	0.00	116	0.19	359	9	0.01	327	0.53	406	22	0.04	1019	1.65
311	2	0.00	118	0.19	360	5	0.01	332	0.54	407	31	0.05	1050	1.70
312	4	0.01	122	0.20	361	14	0.02	346	0.56	408	31	0.05	1081	1.75
313	3	0.00	125	0.20	362	5	0.01	351	0.57	409	30	0.05	1111	1.80
314	3	0.00	128	0.21	363	9	0.01	360	0.58	410	25	0.04	1136	1.84
315	3	0.00	131	0.21	364	13	0.02	373	0.60	411	32	0.05	1168	1.89
316	3	0.00	134	0.22	365	5	0.01	378	0.61	412	29	0.05	1197	1.94
317	4	0.01	138	0.22	366	13	0.02	391	0.63	413	21	0.03	1218	1.97
320	2	0.00	140	0.23	367	8	0.01	399	0.65	414	28	0.05	1246	2.02
321	2	0.00	142	0.23	368	13	0.02	412	0.67	415	34	0.06	1280	2.07
322	2	0.00	144	0.23	369	6	0.01	418	0.68	416	26	0.04	1306	2.12
323	4	0.01	148	0.24	370	11	0.02	429	0.70	417	30	0.05	1336	2.17
324	1	0.00	149	0.24	371	17	0.03	446	0.72	418	39	0.06	1375	2.23
325	2	0.00	151	0.24	372	17	0.03	463	0.75	419	29	0.05	1404	2.28
326	1	0.00	152	0.25	373	11	0.02	474	0.77	420	29	0.05	1433	2.32
327	4	0.01	156	0.25	374	16	0.03	490	0.79	421	28	0.05	1461	2.37

**Table 166. Scale Score Distribution, Writing Grade 9 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
422	59	0.10	1520	2.46	469	108	0.18	5225	8.47	516	244	0.40	13780	22.34
423	49	0.08	1569	2.54	470	135	0.22	5360	8.69	517	235	0.38	14015	22.72
424	44	0.07	1613	2.61	471	119	0.19	5479	8.88	518	285	0.46	14300	23.18
425	39	0.06	1652	2.68	472	132	0.21	5611	9.10	519	250	0.41	14550	23.59
426	52	0.08	1704	2.76	473	104	0.17	5715	9.26	520	263	0.43	14813	24.01
427	47	0.08	1751	2.84	474	141	0.23	5856	9.49	521	252	0.41	15065	24.42
428	35	0.06	1786	2.90	475	115	0.19	5971	9.68	522	247	0.40	15312	24.82
429	47	0.08	1833	2.97	476	141	0.23	6112	9.91	523	260	0.42	15572	25.24
430	54	0.09	1887	3.06	477	138	0.22	6250	10.13	524	272	0.44	15844	25.68
431	53	0.09	1940	3.14	478	153	0.25	6403	10.38	525	273	0.44	16117	26.13
432	59	0.10	1999	3.24	479	163	0.26	6566	10.64	526	279	0.45	16396	26.58
433	50	0.08	2049	3.32	480	156	0.25	6722	10.90	527	298	0.48	16694	27.06
434	63	0.10	2112	3.42	481	147	0.24	6869	11.14	528	266	0.43	16960	27.49
435	50	0.08	2162	3.50	482	171	0.28	7040	11.41	529	286	0.46	17246	27.96
436	62	0.10	2224	3.61	483	145	0.24	7185	11.65	530	305	0.49	17551	28.45
437	59	0.10	2283	3.70	484	160	0.26	7345	11.91	531	267	0.43	17818	28.88
438	76	0.12	2359	3.82	485	163	0.26	7508	12.17	532	261	0.42	18079	29.31
439	60	0.10	2419	3.92	486	183	0.30	7691	12.47	533	306	0.50	18385	29.80
440	64	0.10	2483	4.03	487	172	0.28	7863	12.75	534	299	0.48	18684	30.29
441	74	0.12	2557	4.15	488	177	0.29	8040	13.03	535	280	0.45	18964	30.74
442	56	0.09	2613	4.24	489	162	0.26	8202	13.30	536	281	0.46	19245	31.20
443	81	0.13	2694	4.37	490	176	0.29	8378	13.58	537	319	0.52	19564	31.71
444	65	0.11	2759	4.47	491	145	0.24	8523	13.82	538	298	0.48	19862	32.20
445	50	0.08	2809	4.55	492	183	0.30	8706	14.11	539	292	0.47	20154	32.67
446	76	0.12	2885	4.68	493	169	0.27	8875	14.39	540	317	0.51	20471	33.19
447	80	0.13	2965	4.81	494	193	0.31	9068	14.70	541	298	0.48	20769	33.67
448	91	0.15	3056	4.95	495	164	0.27	9232	14.97	542	338	0.55	21107	34.22
449	84	0.14	3140	5.09	496	205	0.33	9437	15.30	543	352	0.57	21459	34.79
450	77	0.12	3217	5.22	497	182	0.30	9619	15.59	544	365	0.59	21824	35.38
451	92	0.15	3309	5.36	498	173	0.28	9792	15.87	545	321	0.52	22145	35.90
452	97	0.16	3406	5.52	499	188	0.30	9980	16.18	546	300	0.49	22445	36.39
453	78	0.13	3484	5.65	500	212	0.34	10192	16.52	547	308	0.50	22753	36.88
454	88	0.14	3572	5.79	501	233	0.38	10425	16.90	548	309	0.50	23062	37.39
455	115	0.19	3687	5.98	502	204	0.33	10629	17.23	549	330	0.53	23392	37.92
456	95	0.15	3782	6.13	503	199	0.32	10828	17.55	550	344	0.56	23736	38.48
457	101	0.16	3883	6.29	504	224	0.36	11052	17.92	551	340	0.55	24076	39.03
458	98	0.16	3981	6.45	505	216	0.35	11268	18.27	552	339	0.55	24415	39.58
459	97	0.16	4078	6.61	506	211	0.34	11479	18.61	553	314	0.51	24729	40.09
460	98	0.16	4176	6.77	507	211	0.34	11690	18.95	554	334	0.54	25063	40.63
461	102	0.17	4278	6.94	508	219	0.36	11909	19.31	555	306	0.50	25369	41.13
462	117	0.19	4395	7.12	509	254	0.41	12163	19.72	556	348	0.56	25717	41.69
463	111	0.18	4506	7.30	510	206	0.33	12369	20.05	557	339	0.55	26056	42.24
464	130	0.21	4636	7.52	511	231	0.37	12600	20.43	558	336	0.54	26392	42.78
465	126	0.20	4762	7.72	512	217	0.35	12817	20.78	559	364	0.59	26756	43.37
466	121	0.20	4883	7.92	513	242	0.39	13059	21.17	560	346	0.56	27102	43.93
467	127	0.21	5010	8.12	514	249	0.40	13308	21.57	561	362	0.59	27464	44.52
468	107	0.17	5117	8.30	515	228	0.37	13536	21.94	562	350	0.57	27814	45.09

**Table 166. Scale Score Distribution, Writing Grade 9 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
563	396	0.64	28210	45.73	610	265	0.43	43985	71.30	657	158	0.26	54533	88.40
564	362	0.59	28572	46.32	611	281	0.46	44266	71.76	658	143	0.23	54676	88.63
565	367	0.59	28939	46.91	612	272	0.44	44538	72.20	659	150	0.24	54826	88.88
566	322	0.52	29261	47.43	613	291	0.47	44829	72.67	660	140	0.23	54966	89.10
567	337	0.55	29598	47.98	614	282	0.46	45111	73.13	661	130	0.21	55096	89.32
568	361	0.59	29959	48.57	615	302	0.49	45413	73.62	662	130	0.21	55226	89.53
569	368	0.60	30327	49.16	616	298	0.48	45711	74.10	663	130	0.21	55356	89.74
570	366	0.59	30693	49.76	617	297	0.48	46008	74.58	664	144	0.23	55500	89.97
571	372	0.60	31065	50.36	618	250	0.41	46258	74.99	665	118	0.19	55618	90.16
572	352	0.57	31417	50.93	619	285	0.46	46543	75.45	666	129	0.21	55747	90.37
573	354	0.57	31771	51.50	620	286	0.46	46829	75.91	667	142	0.23	55889	90.60
574	376	0.61	32147	52.11	621	264	0.43	47093	76.34	668	109	0.18	55998	90.78
575	352	0.57	32499	52.68	622	282	0.46	47375	76.80	669	134	0.22	56132	90.99
576	342	0.55	32841	53.24	623	264	0.43	47639	77.23	670	129	0.21	56261	91.20
577	327	0.53	33168	53.77	624	219	0.36	47858	77.58	671	127	0.21	56388	91.41
578	325	0.53	33493	54.30	625	262	0.42	48120	78.01	672	98	0.16	56486	91.57
579	347	0.56	33840	54.86	626	241	0.39	48361	78.40	673	118	0.19	56604	91.76
580	335	0.54	34175	55.40	627	232	0.38	48593	78.77	674	92	0.15	56696	91.91
581	342	0.55	34517	55.96	628	252	0.41	48845	79.18	675	103	0.17	56799	92.08
582	369	0.60	34886	56.55	629	254	0.41	49099	79.59	676	128	0.21	56927	92.28
583	370	0.60	35256	57.15	630	261	0.42	49360	80.02	677	112	0.18	57039	92.47
584	354	0.57	35610	57.73	631	260	0.42	49620	80.44	678	110	0.18	57149	92.64
585	334	0.54	35944	58.27	632	244	0.40	49864	80.83	679	101	0.16	57250	92.81
586	322	0.52	36266	58.79	633	235	0.38	50099	81.21	680	100	0.16	57350	92.97
587	328	0.53	36594	59.32	634	210	0.34	50309	81.56	681	66	0.11	57416	93.08
588	353	0.57	36947	59.89	635	211	0.34	50520	81.90	682	93	0.15	57509	93.23
589	329	0.53	37276	60.43	636	230	0.37	50750	82.27	683	99	0.16	57608	93.39
590	326	0.53	37602	60.96	637	184	0.30	50934	82.57	684	104	0.17	57712	93.56
591	359	0.58	37961	61.54	638	215	0.35	51149	82.92	685	85	0.14	57797	93.69
592	333	0.54	38294	62.08	639	207	0.34	51356	83.25	686	88	0.14	57885	93.84
593	360	0.58	38654	62.66	640	205	0.33	51561	83.58	687	98	0.16	57983	94.00
594	330	0.53	38984	63.20	641	190	0.31	51751	83.89	688	80	0.13	58063	94.13
595	330	0.53	39314	63.73	642	196	0.32	51947	84.21	689	79	0.13	58142	94.25
596	306	0.50	39620	64.23	643	208	0.34	52155	84.55	690	84	0.14	58226	94.39
597	345	0.56	39965	64.79	644	176	0.29	52331	84.83	691	73	0.12	58299	94.51
598	343	0.56	40308	65.34	645	181	0.29	52512	85.13	692	74	0.12	58373	94.63
599	291	0.47	40599	65.81	646	168	0.27	52680	85.40	693	64	0.10	58437	94.73
600	312	0.51	40911	66.32	647	177	0.29	52857	85.69	694	68	0.11	58505	94.84
601	309	0.50	41220	66.82	648	177	0.29	53034	85.97	695	70	0.11	58575	94.96
602	322	0.52	41542	67.34	649	185	0.30	53219	86.27	696	69	0.11	58644	95.07
603	317	0.51	41859	67.86	650	153	0.25	53372	86.52	697	74	0.12	58718	95.19
604	308	0.50	42167	68.36	651	181	0.29	53553	86.81	698	64	0.10	58782	95.29
605	303	0.49	42470	68.85	652	178	0.29	53731	87.10	699	62	0.10	58844	95.39
606	326	0.53	42796	69.38	653	170	0.28	53901	87.38	700	82	0.13	58926	95.52
607	287	0.47	43083	69.84	654	182	0.30	54083	87.67	701	75	0.12	59001	95.65
608	310	0.50	43393	70.34	655	141	0.23	54224	87.90	702	47	0.08	59048	95.72
609	327	0.53	43720	70.87	656	151	0.24	54375	88.15	703	65	0.11	59113	95.83

**Table 166. Scale Score Distribution, Writing Grade 9 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
704	48	0.08	59161	95.91	752	25	0.04	60864	98.67	801	25	0.04	61416	99.56
705	56	0.09	59217	96.00	753	12	0.02	60876	98.69	802	9	0.01	61425	99.58
706	68	0.11	59285	96.11	754	19	0.03	60895	98.72	804	4	0.01	61429	99.58
707	41	0.07	59326	96.17	755	16	0.03	60911	98.74	805	8	0.01	61437	99.59
708	58	0.09	59384	96.27	756	13	0.02	60924	98.76	806	15	0.02	61452	99.62
709	59	0.10	59443	96.36	757	20	0.03	60944	98.80	807	1	0.00	61453	99.62
710	47	0.08	59490	96.44	758	25	0.04	60969	98.84	809	2	0.00	61455	99.62
711	33	0.05	59523	96.49	759	22	0.04	60991	98.87	810	6	0.01	61461	99.63
712	44	0.07	59567	96.56	760	22	0.04	61013	98.91	811	4	0.01	61465	99.64
713	56	0.09	59623	96.65	761	18	0.03	61031	98.94	812	1	0.00	61466	99.64
714	43	0.07	59666	96.72	762	18	0.03	61049	98.97	814	1	0.00	61467	99.64
715	47	0.08	59713	96.80	763	18	0.03	61067	98.99	815	1	0.00	61468	99.64
716	62	0.10	59775	96.90	764	16	0.03	61083	99.02	816	3	0.00	61471	99.65
717	46	0.07	59821	96.98	765	18	0.03	61101	99.05	817	5	0.01	61476	99.66
718	64	0.10	59885	97.08	766	21	0.03	61122	99.08	818	2	0.00	61478	99.66
719	39	0.06	59924	97.14	767	9	0.01	61131	99.10	819	12	0.02	61490	99.68
720	36	0.06	59960	97.20	768	15	0.02	61146	99.12	820	1	0.00	61491	99.68
721	45	0.07	60005	97.27	769	13	0.02	61159	99.14	822	12	0.02	61503	99.70
722	33	0.05	60038	97.33	770	6	0.01	61165	99.15	823	15	0.02	61518	99.73
723	36	0.06	60074	97.39	771	11	0.02	61176	99.17	824	10	0.02	61528	99.74
724	37	0.06	60111	97.45	772	11	0.02	61187	99.19	825	4	0.01	61532	99.75
725	44	0.07	60155	97.52	773	1	0.00	61188	99.19	827	7	0.01	61539	99.76
726	42	0.07	60197	97.58	774	4	0.01	61192	99.20	830	1	0.00	61540	99.76
727	48	0.08	60245	97.66	775	9	0.01	61201	99.21	832	4	0.01	61544	99.77
728	25	0.04	60270	97.70	776	15	0.02	61216	99.24	833	12	0.02	61556	99.79
729	38	0.06	60308	97.76	777	10	0.02	61226	99.25	834	6	0.01	61562	99.80
730	36	0.06	60344	97.82	778	12	0.02	61238	99.27	839	3	0.00	61565	99.80
731	22	0.04	60366	97.86	779	32	0.05	61270	99.32	840	1	0.00	61566	99.80
732	28	0.05	60394	97.90	780	8	0.01	61278	99.34	841	3	0.00	61569	99.81
733	29	0.05	60423	97.95	781	8	0.01	61286	99.35	845	5	0.01	61574	99.82
734	28	0.05	60451	98.00	782	6	0.01	61292	99.36	851	4	0.01	61578	99.82
735	21	0.03	60472	98.03	783	6	0.01	61298	99.37	852	2	0.00	61580	99.83
736	28	0.05	60500	98.08	784	2	0.00	61300	99.37	853	1	0.00	61581	99.83
737	31	0.05	60531	98.13	785	6	0.01	61306	99.38	857	3	0.00	61584	99.83
738	29	0.05	60560	98.17	786	15	0.02	61321	99.41	858	2	0.00	61586	99.84
739	24	0.04	60584	98.21	787	2	0.00	61323	99.41	859	4	0.01	61590	99.84
740	11	0.02	60595	98.23	788	2	0.00	61325	99.41	860	12	0.02	61602	99.86
741	14	0.02	60609	98.25	789	9	0.01	61334	99.43	865	1	0.00	61603	99.86
742	16	0.03	60625	98.28	790	4	0.01	61338	99.43	869	6	0.01	61609	99.87
743	12	0.02	60637	98.30	791	4	0.01	61342	99.44	870	5	0.01	61614	99.88
744	28	0.05	60665	98.34	792	15	0.02	61357	99.47	871	8	0.01	61622	99.89
745	15	0.02	60680	98.37	793	6	0.01	61363	99.47	878	4	0.01	61626	99.90
746	19	0.03	60699	98.40	794	1	0.00	61364	99.48	880	1	0.00	61627	99.90
747	48	0.08	60747	98.48	795	2	0.00	61366	99.48	907	10	0.02	61637	99.92
748	18	0.03	60765	98.51	796	9	0.01	61375	99.49	910	24	0.04	61661	99.96
749	39	0.06	60804	98.57	797	2	0.00	61377	99.50	930	26	0.04	61687	100.00
750	17	0.03	60821	98.60	799	12	0.02	61389	99.52					
751	18	0.03	60839	98.63	800	2	0.00	61391	99.52					

**Table 167. Scale Score Distribution, Mathematics Grade 9**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
340	964	1.56	964	1.56	387	19	0.03	1507	2.44	434	47	0.08	2945	4.76
341	11	0.02	975	1.58	388	22	0.04	1529	2.47	435	49	0.08	2994	4.84
342	6	0.01	981	1.59	389	17	0.03	1546	2.50	436	47	0.08	3041	4.92
343	7	0.01	988	1.60	390	19	0.03	1565	2.53	437	44	0.07	3085	4.99
344	9	0.01	997	1.61	391	23	0.04	1588	2.57	438	35	0.06	3120	5.04
345	5	0.01	1002	1.62	392	29	0.05	1617	2.61	439	54	0.09	3174	5.13
346	4	0.01	1006	1.63	393	20	0.03	1637	2.65	440	52	0.08	3226	5.22
347	11	0.02	1017	1.64	394	24	0.04	1661	2.69	441	50	0.08	3276	5.30
348	10	0.02	1027	1.66	395	20	0.03	1681	2.72	442	54	0.09	3330	5.38
349	11	0.02	1038	1.68	396	27	0.04	1708	2.76	443	56	0.09	3386	5.47
350	7	0.01	1045	1.69	397	15	0.02	1723	2.79	444	68	0.11	3454	5.58
351	8	0.01	1053	1.70	398	18	0.03	1741	2.81	445	52	0.08	3506	5.67
352	9	0.01	1062	1.72	399	19	0.03	1760	2.85	446	53	0.09	3559	5.75
353	15	0.02	1077	1.74	400	17	0.03	1777	2.87	447	64	0.10	3623	5.86
354	13	0.02	1090	1.76	401	25	0.04	1802	2.91	448	52	0.08	3675	5.94
355	9	0.01	1099	1.78	402	30	0.05	1832	2.96	449	72	0.12	3747	6.06
356	8	0.01	1107	1.79	403	24	0.04	1856	3.00	450	60	0.10	3807	6.16
357	9	0.01	1116	1.80	404	22	0.04	1878	3.04	451	64	0.10	3871	6.26
358	5	0.01	1121	1.81	405	22	0.04	1900	3.07	452	50	0.08	3921	6.34
359	14	0.02	1135	1.84	406	21	0.03	1921	3.11	453	68	0.11	3989	6.45
360	15	0.02	1150	1.86	407	29	0.05	1950	3.15	454	59	0.10	4048	6.54
361	9	0.01	1159	1.87	408	32	0.05	1982	3.20	455	67	0.11	4115	6.65
362	6	0.01	1165	1.88	409	34	0.05	2016	3.26	456	64	0.10	4179	6.76
363	7	0.01	1172	1.89	410	27	0.04	2043	3.30	457	72	0.12	4251	6.87
364	12	0.02	1184	1.91	411	27	0.04	2070	3.35	458	79	0.13	4330	7.00
365	10	0.02	1194	1.93	412	35	0.06	2105	3.40	459	55	0.09	4385	7.09
366	6	0.01	1200	1.94	413	31	0.05	2136	3.45	460	63	0.10	4448	7.19
367	12	0.02	1212	1.96	414	27	0.04	2163	3.50	461	67	0.11	4515	7.30
368	6	0.01	1218	1.97	415	39	0.06	2202	3.56	462	65	0.11	4580	7.41
369	21	0.03	1239	2.00	416	34	0.05	2236	3.62	463	72	0.12	4652	7.52
370	12	0.02	1251	2.02	417	28	0.05	2264	3.66	464	72	0.12	4724	7.64
371	15	0.02	1266	2.05	418	35	0.06	2299	3.72	465	72	0.12	4796	7.75
372	21	0.03	1287	2.08	419	32	0.05	2331	3.77	466	80	0.13	4876	7.88
373	16	0.03	1303	2.11	420	43	0.07	2374	3.84	467	87	0.14	4963	8.02
374	20	0.03	1323	2.14	421	33	0.05	2407	3.89	468	83	0.13	5046	8.16
375	20	0.03	1343	2.17	422	31	0.05	2438	3.94	469	87	0.14	5133	8.30
376	21	0.03	1364	2.21	423	47	0.08	2485	4.02	470	87	0.14	5220	8.44
377	12	0.02	1376	2.22	424	42	0.07	2527	4.09	471	87	0.14	5307	8.58
378	14	0.02	1390	2.25	425	33	0.05	2560	4.14	472	103	0.17	5410	8.75
379	16	0.03	1406	2.27	426	44	0.07	2604	4.21	473	89	0.14	5499	8.89
380	15	0.02	1421	2.30	427	46	0.07	2650	4.28	474	90	0.15	5589	9.04
381	10	0.02	1431	2.31	428	30	0.05	2680	4.33	475	81	0.13	5670	9.17
382	9	0.01	1440	2.33	429	41	0.07	2721	4.40	476	71	0.11	5741	9.28
383	8	0.01	1448	2.34	430	39	0.06	2760	4.46	477	98	0.16	5839	9.44
384	13	0.02	1461	2.36	431	47	0.08	2807	4.54	478	92	0.15	5931	9.59
385	11	0.02	1472	2.38	432	54	0.09	2861	4.63	479	109	0.18	6040	9.77
386	16	0.03	1488	2.41	433	37	0.06	2898	4.69	480	105	0.17	6145	9.94

**Table 167. Scale Score Distribution, Mathematics Grade 9 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
481	102	0.16	6247	10.10	528	211	0.34	13488	21.81	575	407	0.66	27637	44.68
482	105	0.17	6352	10.27	529	213	0.34	13701	22.15	576	367	0.59	28004	45.28
483	103	0.17	6455	10.44	530	222	0.36	13923	22.51	577	386	0.62	28390	45.90
484	108	0.17	6563	10.61	531	222	0.36	14145	22.87	578	323	0.52	28713	46.42
485	106	0.17	6669	10.78	532	216	0.35	14361	23.22	579	348	0.56	29061	46.99
486	93	0.15	6762	10.93	533	252	0.41	14613	23.63	580	371	0.60	29432	47.59
487	106	0.17	6868	11.10	534	231	0.37	14844	24.00	581	359	0.58	29791	48.17
488	128	0.21	6996	11.31	535	263	0.43	15107	24.43	582	377	0.61	30168	48.78
489	119	0.19	7115	11.50	536	259	0.42	15366	24.84	583	369	0.60	30537	49.37
490	143	0.23	7258	11.74	537	247	0.40	15613	25.24	584	368	0.59	30905	49.97
491	110	0.18	7368	11.91	538	254	0.41	15867	25.65	585	335	0.54	31240	50.51
492	118	0.19	7486	12.10	539	266	0.43	16133	26.08	586	365	0.59	31605	51.10
493	132	0.21	7618	12.32	540	234	0.38	16367	26.46	587	389	0.63	31994	51.73
494	122	0.20	7740	12.51	541	258	0.42	16625	26.88	588	371	0.60	32365	52.33
495	127	0.21	7867	12.72	542	257	0.42	16882	27.30	589	354	0.57	32719	52.90
496	134	0.22	8001	12.94	543	259	0.42	17141	27.71	590	372	0.60	33091	53.50
497	118	0.19	8119	13.13	544	279	0.45	17420	28.17	591	370	0.60	33461	54.10
498	121	0.20	8240	13.32	545	284	0.46	17704	28.62	592	364	0.59	33825	54.69
499	138	0.22	8378	13.55	546	296	0.48	18000	29.10	593	365	0.59	34190	55.28
500	131	0.21	8509	13.76	547	267	0.43	18267	29.53	594	317	0.51	34507	55.79
501	130	0.21	8639	13.97	548	293	0.47	18560	30.01	595	378	0.61	34885	56.40
502	138	0.22	8777	14.19	549	273	0.44	18833	30.45	596	348	0.56	35233	56.97
503	140	0.23	8917	14.42	550	297	0.48	19130	30.93	597	341	0.55	35574	57.52
504	147	0.24	9064	14.66	551	286	0.46	19416	31.39	598	352	0.57	35926	58.09
505	121	0.20	9185	14.85	552	306	0.49	19722	31.89	599	352	0.57	36278	58.66
506	155	0.25	9340	15.10	553	313	0.51	20035	32.39	600	366	0.59	36644	59.25
507	169	0.27	9509	15.37	554	300	0.49	20335	32.88	601	351	0.57	36995	59.82
508	170	0.27	9679	15.65	555	350	0.57	20685	33.44	602	368	0.59	37363	60.41
509	153	0.25	9832	15.90	556	322	0.52	21007	33.96	603	387	0.63	37750	61.04
510	156	0.25	9988	16.15	557	328	0.53	21335	34.50	604	336	0.54	38086	61.58
511	141	0.23	10129	16.38	558	335	0.54	21670	35.04	605	370	0.60	38456	62.18
512	203	0.33	10332	16.71	559	320	0.52	21990	35.55	606	353	0.57	38809	62.75
513	163	0.26	10495	16.97	560	334	0.54	22324	36.09	607	354	0.57	39163	63.32
514	178	0.29	10673	17.26	561	356	0.58	22680	36.67	608	354	0.57	39517	63.89
515	176	0.28	10849	17.54	562	333	0.54	23013	37.21	609	333	0.54	39850	64.43
516	198	0.32	11047	17.86	563	321	0.52	23334	37.73	610	362	0.59	40212	65.02
517	194	0.31	11241	18.17	564	333	0.54	23667	38.27	611	348	0.56	40560	65.58
518	192	0.31	11433	18.49	565	357	0.58	24024	38.84	612	326	0.53	40886	66.11
519	166	0.27	11599	18.75	566	343	0.55	24367	39.40	613	369	0.60	41255	66.70
520	193	0.31	11792	19.07	567	317	0.51	24684	39.91	614	326	0.53	41581	67.23
521	200	0.32	11992	19.39	568	389	0.63	25073	40.54	615	333	0.54	41914	67.77
522	184	0.30	12176	19.69	569	340	0.55	25413	41.09	616	324	0.52	42238	68.29
523	218	0.35	12394	20.04	570	343	0.55	25756	41.64	617	346	0.56	42584	68.85
524	206	0.33	12600	20.37	571	355	0.57	26111	42.22	618	330	0.53	42914	69.39
525	205	0.33	12805	20.70	572	399	0.65	26510	42.86	619	310	0.50	43224	69.89
526	240	0.39	13045	21.09	573	365	0.59	26875	43.45	620	344	0.56	43568	70.44
527	232	0.38	13277	21.47	574	355	0.57	27230	44.03	621	313	0.51	43881	70.95

**Table 167. Scale Score Distribution, Mathematics Grade 9 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
622	336	0.54	44217	71.49	669	189	0.31	56300	91.03	716	38	0.06	61110	98.81
623	349	0.56	44566	72.06	670	164	0.27	56464	91.29	717	27	0.04	61137	98.85
624	326	0.53	44892	72.58	671	187	0.30	56651	91.60	718	29	0.05	61166	98.90
625	298	0.48	45190	73.07	672	184	0.30	56835	91.89	719	25	0.04	61191	98.94
626	321	0.52	45511	73.58	673	172	0.28	57007	92.17	720	43	0.07	61234	99.01
627	284	0.46	45795	74.04	674	150	0.24	57157	92.41	721	32	0.05	61266	99.06
628	294	0.48	46089	74.52	675	172	0.28	57329	92.69	722	37	0.06	61303	99.12
629	317	0.51	46406	75.03	676	153	0.25	57482	92.94	723	34	0.05	61337	99.17
630	309	0.50	46715	75.53	677	159	0.26	57641	93.20	724	27	0.04	61364	99.22
631	307	0.50	47022	76.03	678	141	0.23	57782	93.42	725	18	0.03	61382	99.24
632	318	0.51	47340	76.54	679	153	0.25	57935	93.67	726	20	0.03	61402	99.28
633	267	0.43	47607	76.97	680	166	0.27	58101	93.94	727	24	0.04	61426	99.32
634	269	0.43	47876	77.41	681	127	0.21	58228	94.15	728	23	0.04	61449	99.35
635	287	0.46	48163	77.87	682	125	0.20	58353	94.35	729	22	0.04	61471	99.39
636	303	0.49	48466	78.36	683	120	0.19	58473	94.54	730	21	0.03	61492	99.42
637	303	0.49	48769	78.85	684	117	0.19	58590	94.73	731	21	0.03	61513	99.46
638	290	0.47	49059	79.32	685	118	0.19	58708	94.92	732	8	0.01	61521	99.47
639	327	0.53	49386	79.85	686	115	0.19	58823	95.11	733	22	0.04	61543	99.51
640	291	0.47	49677	80.32	687	119	0.19	58942	95.30	734	23	0.04	61566	99.54
641	245	0.40	49922	80.72	688	122	0.20	59064	95.50	735	18	0.03	61584	99.57
642	268	0.43	50190	81.15	689	104	0.17	59168	95.67	736	18	0.03	61602	99.60
643	278	0.45	50468	81.60	690	130	0.21	59298	95.88	737	11	0.02	61613	99.62
644	253	0.41	50721	82.01	691	110	0.18	59408	96.05	738	7	0.01	61620	99.63
645	245	0.40	50966	82.40	692	118	0.19	59526	96.24	739	14	0.02	61634	99.65
646	226	0.37	51192	82.77	693	94	0.15	59620	96.40	740	16	0.03	61650	99.68
647	251	0.41	51443	83.18	694	89	0.14	59709	96.54	741	13	0.02	61663	99.70
648	257	0.42	51700	83.59	695	88	0.14	59797	96.68	742	10	0.02	61673	99.72
649	269	0.43	51969	84.03	696	89	0.14	59886	96.83	743	12	0.02	61685	99.73
650	268	0.43	52237	84.46	697	93	0.15	59979	96.98	744	9	0.01	61694	99.75
651	250	0.40	52487	84.86	698	81	0.13	60060	97.11	745	10	0.02	61704	99.77
652	232	0.38	52719	85.24	699	84	0.14	60144	97.24	746	6	0.01	61710	99.78
653	205	0.33	52924	85.57	700	90	0.15	60234	97.39	747	14	0.02	61724	99.80
654	229	0.37	53153	85.94	701	60	0.10	60294	97.49	748	6	0.01	61730	99.81
655	209	0.34	53362	86.28	702	63	0.10	60357	97.59	749	6	0.01	61736	99.82
656	210	0.34	53572	86.62	703	62	0.10	60419	97.69	750	12	0.02	61748	99.84
657	225	0.36	53797	86.98	704	66	0.11	60485	97.79	751	4	0.01	61752	99.84
658	227	0.37	54024	87.35	705	59	0.10	60544	97.89	752	4	0.01	61756	99.85
659	204	0.33	54228	87.68	706	69	0.11	60613	98.00	753	3	0.00	61759	99.85
660	225	0.36	54453	88.04	707	53	0.09	60666	98.09	754	3	0.00	61762	99.86
661	223	0.36	54676	88.40	708	53	0.09	60719	98.17	755	5	0.01	61767	99.87
662	209	0.34	54885	88.74	709	59	0.10	60778	98.27	756	6	0.01	61773	99.88
663	210	0.34	55095	89.08	710	49	0.08	60827	98.35	757	12	0.02	61785	99.90
664	189	0.31	55284	89.39	711	64	0.10	60891	98.45	758	4	0.01	61789	99.90
665	218	0.35	55502	89.74	712	55	0.09	60946	98.54	759	3	0.00	61792	99.91
666	219	0.35	55721	90.09	713	47	0.08	60993	98.62	760	5	0.01	61797	99.92
667	190	0.31	55911	90.40	714	30	0.05	61023	98.66	762	2	0.00	61799	99.92
668	200	0.32	56111	90.72	715	49	0.08	61072	98.74	763	4	0.01	61803	99.93



**Table 167. Scale Score Distribution, Mathematics Grade 9 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %
764	1	0.00	61804	99.93
765	2	0.00	61806	99.93
766	4	0.01	61810	99.94
767	4	0.01	61814	99.94
768	4	0.01	61818	99.95
770	2	0.00	61820	99.95
771	2	0.00	61822	99.96
772	1	0.00	61823	99.96
773	1	0.00	61824	99.96
774	1	0.00	61825	99.96
776	2	0.00	61827	99.96
780	2	0.00	61829	99.97
781	1	0.00	61830	99.97
782	3	0.00	61833	99.97
783	1	0.00	61834	99.98
784	1	0.00	61835	99.98
787	2	0.00	61837	99.98
789	1	0.00	61838	99.98
790	1	0.00	61839	99.98
791	1	0.00	61840	99.99
793	2	0.00	61842	99.99
799	1	0.00	61843	99.99
800	1	0.00	61844	99.99
801	1	0.00	61845	99.99
802	1	0.00	61846	100.00
823	1	0.00	61847	100.00
824	1	0.00	61848	100.00
857	1	0.00	61849	100.00

**Table 168. Scale Score Distribution, Reading Grade 10**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
370	233	0.40	233	0.40	476	2	0.00	294	0.50	523	6	0.01	512	0.87
371	2	0.00	235	0.40	477	1	0.00	295	0.50	524	14	0.02	526	0.89
373	1	0.00	236	0.40	478	2	0.00	297	0.50	525	10	0.02	536	0.91
376	1	0.00	237	0.40	479	1	0.00	298	0.51	526	12	0.02	548	0.93
378	1	0.00	238	0.40	480	1	0.00	299	0.51	527	13	0.02	561	0.95
390	1	0.00	239	0.41	481	2	0.00	301	0.51	528	12	0.02	573	0.97
391	1	0.00	240	0.41	482	3	0.01	304	0.52	529	20	0.03	593	1.01
393	1	0.00	241	0.41	483	4	0.01	308	0.52	530	15	0.03	608	1.03
396	2	0.00	243	0.41	484	3	0.01	311	0.53	531	13	0.02	621	1.05
397	1	0.00	244	0.41	485	2	0.00	313	0.53	532	10	0.02	631	1.07
400	1	0.00	245	0.42	486	2	0.00	315	0.53	533	19	0.03	650	1.10
403	1	0.00	246	0.42	487	2	0.00	317	0.54	534	12	0.02	662	1.12
406	1	0.00	247	0.42	488	5	0.01	322	0.55	535	15	0.03	677	1.15
417	1	0.00	248	0.42	489	2	0.00	324	0.55	536	12	0.02	689	1.17
418	1	0.00	249	0.42	490	3	0.01	327	0.55	537	9	0.02	698	1.18
419	1	0.00	250	0.42	491	2	0.00	329	0.56	538	32	0.05	730	1.24
420	1	0.00	251	0.43	492	2	0.00	331	0.56	539	13	0.02	743	1.26
421	1	0.00	252	0.43	493	7	0.01	338	0.57	540	22	0.04	765	1.30
422	1	0.00	253	0.43	494	2	0.00	340	0.58	541	24	0.04	789	1.34
427	1	0.00	254	0.43	495	5	0.01	345	0.58	542	22	0.04	811	1.37
432	1	0.00	255	0.43	496	2	0.00	347	0.59	543	26	0.04	837	1.42
434	1	0.00	256	0.43	497	8	0.01	355	0.60	544	29	0.05	866	1.47
435	1	0.00	257	0.44	498	4	0.01	359	0.61	545	15	0.03	881	1.49
437	2	0.00	259	0.44	499	2	0.00	361	0.61	546	22	0.04	903	1.53
439	1	0.00	260	0.44	500	7	0.01	368	0.62	547	23	0.04	926	1.57
440	1	0.00	261	0.44	501	4	0.01	372	0.63	548	24	0.04	950	1.61
442	1	0.00	262	0.44	502	7	0.01	379	0.64	549	28	0.05	978	1.66
453	1	0.00	263	0.45	503	2	0.00	381	0.65	550	32	0.05	1010	1.71
454	1	0.00	264	0.45	504	3	0.01	384	0.65	551	15	0.03	1025	1.74
455	2	0.00	266	0.45	505	2	0.00	386	0.65	552	35	0.06	1060	1.80
456	2	0.00	268	0.45	506	5	0.01	391	0.66	553	37	0.06	1097	1.86
457	2	0.00	270	0.46	507	8	0.01	399	0.68	554	34	0.06	1131	1.92
459	1	0.00	271	0.46	508	5	0.01	404	0.68	555	26	0.04	1157	1.96
460	1	0.00	272	0.46	509	6	0.01	410	0.70	556	29	0.05	1186	2.01
461	2	0.00	274	0.46	510	5	0.01	415	0.70	557	40	0.07	1226	2.08
463	1	0.00	275	0.47	511	4	0.01	419	0.71	558	32	0.05	1258	2.13
464	1	0.00	276	0.47	512	10	0.02	429	0.73	559	39	0.07	1297	2.20
466	2	0.00	278	0.47	513	7	0.01	436	0.74	560	36	0.06	1333	2.26
467	1	0.00	279	0.47	514	7	0.01	443	0.75	561	34	0.06	1367	2.32
468	1	0.00	280	0.47	515	7	0.01	450	0.76	562	32	0.05	1399	2.37
469	1	0.00	281	0.48	516	4	0.01	454	0.77	563	26	0.04	1425	2.42
470	1	0.00	282	0.48	517	14	0.02	468	0.79	564	40	0.07	1465	2.48
471	2	0.00	284	0.48	518	10	0.02	478	0.81	565	34	0.06	1499	2.54
472	2	0.00	286	0.48	519	8	0.01	486	0.82	566	38	0.06	1537	2.61
473	1	0.00	287	0.49	520	8	0.01	494	0.84	567	42	0.07	1579	2.68
474	1	0.00	288	0.49	521	7	0.01	501	0.85	568	46	0.08	1625	2.75
475	4	0.01	292	0.50	522	5	0.01	506	0.86	569	57	0.10	1682	2.85

**Table 168. Scale Score Distribution, Reading Grade 10 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
570	42	0.07	1724	2.92	617	153	0.26	5916	10.03	664	399	0.68	18175	30.81
571	48	0.08	1772	3.00	618	153	0.26	6069	10.29	665	395	0.67	18570	31.48
572	44	0.07	1816	3.08	619	153	0.26	6222	10.55	666	413	0.70	18983	32.18
573	40	0.07	1856	3.15	620	147	0.25	6369	10.80	667	424	0.72	19407	32.90
574	56	0.09	1912	3.24	621	158	0.27	6527	11.07	668	442	0.75	19849	33.65
575	65	0.11	1977	3.35	622	171	0.29	6698	11.36	669	476	0.81	20325	34.46
576	56	0.09	2033	3.45	623	155	0.26	6853	11.62	670	452	0.77	20777	35.22
577	58	0.10	2091	3.54	624	186	0.32	7039	11.93	671	460	0.78	21237	36.00
578	65	0.11	2156	3.66	625	166	0.28	7205	12.21	672	443	0.75	21680	36.75
579	74	0.13	2230	3.78	626	170	0.29	7375	12.50	673	447	0.76	22127	37.51
580	56	0.09	2286	3.88	627	176	0.30	7551	12.80	674	443	0.75	22570	38.26
581	57	0.10	2343	3.97	628	179	0.30	7730	13.10	675	481	0.82	23051	39.08
582	61	0.10	2404	4.08	629	211	0.36	7941	13.46	676	438	0.74	23489	39.82
583	53	0.09	2457	4.17	630	188	0.32	8129	13.78	677	485	0.82	23974	40.64
584	66	0.11	2523	4.28	631	228	0.39	8357	14.17	678	464	0.79	24438	41.43
585	75	0.13	2598	4.40	632	173	0.29	8530	14.46	679	495	0.84	24933	42.27
586	78	0.13	2676	4.54	633	210	0.36	8740	14.82	680	466	0.79	25399	43.06
587	83	0.14	2759	4.68	634	234	0.40	8974	15.21	681	485	0.82	25884	43.88
588	79	0.13	2838	4.81	635	207	0.35	9181	15.56	682	511	0.87	26395	44.75
589	63	0.11	2901	4.92	636	220	0.37	9401	15.94	683	498	0.84	26893	45.59
590	73	0.12	2974	5.04	637	260	0.44	9661	16.38	684	516	0.87	27409	46.47
591	82	0.14	3056	5.18	638	222	0.38	9883	16.75	685	477	0.81	27886	47.28
592	86	0.15	3142	5.33	639	247	0.42	10130	17.17	686	486	0.82	28372	48.10
593	76	0.13	3218	5.46	640	258	0.44	10388	17.61	687	514	0.87	28886	48.97
594	59	0.10	3277	5.56	641	251	0.43	10639	18.04	688	519	0.88	29405	49.85
595	96	0.16	3373	5.72	642	255	0.43	10894	18.47	689	460	0.78	29865	50.63
596	83	0.14	3456	5.86	643	261	0.44	11155	18.91	690	514	0.87	30379	51.50
597	98	0.17	3554	6.03	644	282	0.48	11437	19.39	691	517	0.88	30896	52.38
598	97	0.16	3651	6.19	645	258	0.44	11695	19.83	692	523	0.89	31419	53.27
599	106	0.18	3757	6.37	646	266	0.45	11961	20.28	693	549	0.93	31968	54.20
600	88	0.15	3845	6.52	647	271	0.46	12232	20.74	694	491	0.83	32459	55.03
601	100	0.17	3945	6.69	648	307	0.52	12539	21.26	695	516	0.87	32975	55.90
602	109	0.18	4054	6.87	649	293	0.50	12832	21.75	696	506	0.86	33481	56.76
603	106	0.18	4160	7.05	650	336	0.57	13168	22.32	697	497	0.84	33978	57.60
604	96	0.16	4256	7.22	651	298	0.51	13466	22.83	698	503	0.85	34481	58.46
605	111	0.19	4367	7.40	652	304	0.52	13770	23.34	699	516	0.87	34997	59.33
606	106	0.18	4473	7.58	653	318	0.54	14088	23.88	700	505	0.86	35502	60.19
607	118	0.20	4591	7.78	654	343	0.58	14431	24.47	701	518	0.88	36020	61.07
608	106	0.18	4697	7.96	655	347	0.59	14778	25.05	702	527	0.89	36547	61.96
609	114	0.19	4811	8.16	656	333	0.56	15111	25.62	703	542	0.92	37089	62.88
610	120	0.20	4931	8.36	657	369	0.63	15480	26.24	704	517	0.88	37606	63.75
611	122	0.21	5053	8.57	658	342	0.58	15822	26.82	705	534	0.91	38140	64.66
612	124	0.21	5177	8.78	659	375	0.64	16197	27.46	706	508	0.86	38648	65.52
613	132	0.22	5309	9.00	660	399	0.68	16596	28.14	707	536	0.91	39184	66.43
614	160	0.27	5469	9.27	661	392	0.66	16988	28.80	708	510	0.86	39694	67.29
615	144	0.24	5613	9.52	662	409	0.69	17397	29.49	709	503	0.85	40197	68.15
616	150	0.25	5763	9.77	663	379	0.64	17776	30.14	710	515	0.87	40712	69.02

**Table 168. Scale Score Distribution, Reading Grade 10 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
711	512	0.87	41224	69.89	758	143	0.24	56306	95.46	805	11	0.02	58835	99.74
712	433	0.73	41657	70.62	759	131	0.22	56437	95.68	806	11	0.02	58846	99.76
713	496	0.84	42153	71.46	760	121	0.21	56558	95.88	807	8	0.01	58854	99.78
714	493	0.84	42646	72.30	761	124	0.21	56682	96.09	808	9	0.02	58863	99.79
715	464	0.79	43110	73.09	762	93	0.16	56775	96.25	809	12	0.02	58875	99.81
716	450	0.76	43560	73.85	763	113	0.19	56888	96.44	810	5	0.01	58880	99.82
717	443	0.75	44003	74.60	764	114	0.19	57002	96.64	811	7	0.01	58887	99.83
718	463	0.78	44466	75.38	765	116	0.20	57118	96.83	812	8	0.01	58895	99.85
719	430	0.73	44896	76.11	766	115	0.19	57233	97.03	813	5	0.01	58900	99.85
720	410	0.70	45306	76.81	767	97	0.16	57330	97.19	814	5	0.01	58905	99.86
721	429	0.73	45735	77.54	768	94	0.16	57424	97.35	815	2	0.00	58907	99.87
722	420	0.71	46155	78.25	769	79	0.13	57503	97.49	816	5	0.01	58912	99.87
723	381	0.65	46536	78.89	770	90	0.15	57593	97.64	817	10	0.02	58922	99.89
724	406	0.69	46942	79.58	771	76	0.13	57669	97.77	818	7	0.01	58929	99.90
725	404	0.68	47346	80.27	772	83	0.14	57752	97.91	819	8	0.01	58937	99.92
726	418	0.71	47764	80.98	773	74	0.13	57826	98.03	820	3	0.01	58940	99.92
727	371	0.63	48135	81.60	774	70	0.12	57896	98.15	821	4	0.01	58944	99.93
728	374	0.63	48509	82.24	775	76	0.13	57972	98.28	822	2	0.00	58946	99.93
729	371	0.63	48880	82.87	776	50	0.08	58022	98.37	823	7	0.01	58953	99.94
730	363	0.62	49243	83.48	777	58	0.10	58080	98.46	824	1	0.00	58954	99.95
731	381	0.65	49624	84.13	778	50	0.08	58130	98.55	825	1	0.00	58955	99.95
732	356	0.60	49980	84.73	779	51	0.09	58181	98.64	826	1	0.00	58956	99.95
733	354	0.60	50334	85.33	780	55	0.09	58236	98.73	827	3	0.01	58959	99.95
734	337	0.57	50671	85.90	781	43	0.07	58279	98.80	829	3	0.01	58962	99.96
735	348	0.59	51019	86.49	782	39	0.07	58318	98.87	830	3	0.01	58965	99.96
736	351	0.60	51370	87.09	783	43	0.07	58361	98.94	831	2	0.00	58967	99.97
737	300	0.51	51670	87.60	784	43	0.07	58404	99.01	833	2	0.00	58969	99.97
738	294	0.50	51964	88.10	785	38	0.06	58442	99.08	836	4	0.01	58973	99.98
739	295	0.50	52259	88.60	786	40	0.07	58482	99.15	837	3	0.01	58976	99.98
740	311	0.53	52570	89.12	787	33	0.06	58515	99.20	838	1	0.00	58977	99.98
741	286	0.48	52856	89.61	788	23	0.04	58538	99.24	839	1	0.00	58978	99.99
742	281	0.48	53137	90.08	789	31	0.05	58569	99.29	841	1	0.00	58979	99.99
743	242	0.41	53379	90.49	790	21	0.04	58590	99.33	843	1	0.00	58980	99.99
744	250	0.42	53629	90.92	791	20	0.03	58610	99.36	844	1	0.00	58981	99.99
745	240	0.41	53869	91.33	792	18	0.03	58628	99.39	853	1	0.00	58982	99.99
746	236	0.40	54105	91.73	793	24	0.04	58652	99.43	854	1	0.00	58983	99.99
747	210	0.36	54315	92.08	794	24	0.04	58676	99.47	859	1	0.00	58984	100.00
748	208	0.35	54523	92.43	795	18	0.03	58694	99.50	863	1	0.00	58985	100.00
749	206	0.35	54729	92.78	796	16	0.03	58710	99.53	876	1	0.00	58986	100.00
750	193	0.33	54922	93.11	797	16	0.03	58726	99.56					
751	207	0.35	55129	93.46	798	20	0.03	58746	99.59					
752	178	0.30	55307	93.76	799	10	0.02	58756	99.61					
753	174	0.29	55481	94.06	800	9	0.02	58765	99.63					
754	188	0.32	55669	94.38	801	13	0.02	58778	99.65					
755	158	0.27	55827	94.64	802	17	0.03	58795	99.68					
756	169	0.29	55996	94.93	803	16	0.03	58811	99.70					
757	167	0.28	56163	95.21	804	13	0.02	58824	99.73					

**Table 169. Scale Score Distribution, Writing Grade 10**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
270	78	0.13	78	0.13	328	3	0.01	193	0.33	375	11	0.02	489	0.83
271	1	0.00	79	0.13	329	8	0.01	201	0.34	376	5	0.01	494	0.84
272	1	0.00	80	0.14	330	3	0.01	204	0.35	377	9	0.02	503	0.85
274	1	0.00	81	0.14	331	1	0.00	205	0.35	378	11	0.02	514	0.87
275	1	0.00	82	0.14	332	5	0.01	210	0.36	379	17	0.03	531	0.90
276	1	0.00	83	0.14	333	4	0.01	214	0.36	380	20	0.03	551	0.93
277	1	0.00	84	0.14	334	2	0.00	216	0.37	381	15	0.03	566	0.96
279	3	0.01	87	0.15	335	4	0.01	220	0.37	382	15	0.03	581	0.98
280	2	0.00	89	0.15	336	3	0.01	223	0.38	383	11	0.02	592	1.00
282	2	0.00	91	0.15	337	5	0.01	228	0.39	384	7	0.01	599	1.01
283	1	0.00	92	0.16	338	1	0.00	229	0.39	385	13	0.02	612	1.04
284	4	0.01	96	0.16	339	5	0.01	234	0.40	386	18	0.03	630	1.07
285	1	0.00	97	0.16	340	3	0.01	237	0.40	387	9	0.02	639	1.08
287	5	0.01	102	0.17	341	4	0.01	241	0.41	388	19	0.03	658	1.11
291	4	0.01	106	0.18	342	3	0.01	244	0.41	389	12	0.02	670	1.14
292	1	0.00	107	0.18	343	2	0.00	246	0.42	390	17	0.03	687	1.16
293	1	0.00	108	0.18	344	7	0.01	253	0.43	391	20	0.03	707	1.20
294	2	0.00	110	0.19	345	6	0.01	259	0.44	392	17	0.03	724	1.23
295	3	0.01	113	0.19	346	3	0.01	262	0.44	393	18	0.03	742	1.26
296	2	0.00	115	0.19	347	7	0.01	269	0.46	394	21	0.04	763	1.29
298	1	0.00	116	0.20	348	5	0.01	274	0.46	395	20	0.03	783	1.33
299	2	0.00	118	0.20	349	2	0.00	276	0.47	396	16	0.03	799	1.35
301	1	0.00	119	0.20	350	8	0.01	284	0.48	397	24	0.04	823	1.39
302	3	0.01	122	0.21	351	8	0.01	292	0.49	398	23	0.04	846	1.43
303	3	0.01	125	0.21	352	4	0.01	296	0.50	399	23	0.04	869	1.47
304	3	0.01	128	0.22	353	7	0.01	303	0.51	400	26	0.04	895	1.52
305	2	0.00	130	0.22	354	13	0.02	316	0.54	401	15	0.03	910	1.54
306	2	0.00	132	0.22	355	5	0.01	321	0.54	402	24	0.04	934	1.58
307	2	0.00	134	0.23	356	2	0.00	323	0.55	403	35	0.06	969	1.64
308	2	0.00	136	0.23	357	7	0.01	330	0.56	404	20	0.03	989	1.68
309	4	0.01	140	0.24	358	3	0.01	333	0.56	405	21	0.04	1010	1.71
310	1	0.00	141	0.24	359	12	0.02	345	0.58	406	30	0.05	1040	1.76
311	3	0.01	144	0.24	360	8	0.01	353	0.60	407	25	0.04	1065	1.80
312	2	0.00	146	0.25	361	7	0.01	360	0.61	408	31	0.05	1096	1.86
313	2	0.00	148	0.25	362	9	0.02	369	0.63	409	28	0.05	1124	1.90
314	5	0.01	153	0.26	363	8	0.01	377	0.64	410	33	0.06	1157	1.96
315	3	0.01	156	0.26	364	5	0.01	382	0.65	411	22	0.04	1179	2.00
318	1	0.00	157	0.27	365	7	0.01	389	0.66	412	22	0.04	1201	2.03
319	2	0.00	159	0.27	366	9	0.02	398	0.67	413	40	0.07	1241	2.10
320	2	0.00	161	0.27	367	13	0.02	411	0.70	414	26	0.04	1267	2.15
321	2	0.00	163	0.28	368	10	0.02	421	0.71	415	35	0.06	1302	2.21
322	5	0.01	168	0.28	369	8	0.01	429	0.73	416	39	0.07	1341	2.27
323	3	0.01	171	0.29	370	7	0.01	436	0.74	417	42	0.07	1383	2.34
324	3	0.01	174	0.29	371	11	0.02	447	0.76	418	38	0.06	1421	2.41
325	1	0.00	175	0.30	372	15	0.03	462	0.78	419	57	0.10	1478	2.50
326	8	0.01	183	0.31	373	8	0.01	470	0.80	420	41	0.07	1519	2.57
327	7	0.01	190	0.32	374	8	0.01	478	0.81	421	45	0.08	1564	2.65

**Table 169. Scale Score Distribution, Writing Grade 10 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
422	48	0.08	1612	2.73	469	126	0.21	5331	9.03	516	188	0.32	12622	21.38
423	47	0.08	1659	2.81	470	111	0.19	5442	9.22	517	218	0.37	12840	21.75
424	47	0.08	1706	2.89	471	114	0.19	5556	9.41	518	222	0.38	13062	22.13
425	50	0.08	1756	2.97	472	119	0.20	5675	9.61	519	218	0.37	13280	22.50
426	50	0.08	1806	3.06	473	119	0.20	5794	9.82	520	199	0.34	13479	22.84
427	43	0.07	1849	3.13	474	114	0.19	5908	10.01	521	256	0.43	13735	23.27
428	54	0.09	1903	3.22	475	125	0.21	6033	10.22	522	239	0.40	13974	23.67
429	58	0.10	1961	3.32	476	108	0.18	6141	10.40	523	216	0.37	14190	24.04
430	46	0.08	2007	3.40	477	139	0.24	6280	10.64	524	226	0.38	14416	24.42
431	40	0.07	2047	3.47	478	130	0.22	6410	10.86	525	234	0.40	14650	24.82
432	54	0.09	2101	3.56	479	121	0.20	6531	11.06	526	242	0.41	14892	25.23
433	47	0.08	2148	3.64	480	137	0.23	6668	11.30	527	252	0.43	15144	25.66
434	61	0.10	2209	3.74	481	132	0.22	6800	11.52	528	229	0.39	15373	26.04
435	62	0.11	2271	3.85	482	137	0.23	6937	11.75	529	268	0.45	15641	26.50
436	60	0.10	2331	3.95	483	120	0.20	7057	11.96	530	248	0.42	15889	26.92
437	65	0.11	2396	4.06	484	140	0.24	7197	12.19	531	274	0.46	16163	27.38
438	62	0.11	2458	4.16	485	159	0.27	7356	12.46	532	243	0.41	16406	27.79
439	83	0.14	2541	4.30	486	151	0.26	7507	12.72	533	264	0.45	16670	28.24
440	78	0.13	2619	4.44	487	130	0.22	7637	12.94	534	245	0.42	16915	28.66
441	67	0.11	2686	4.55	488	152	0.26	7789	13.20	535	278	0.47	17193	29.13
442	74	0.13	2760	4.68	489	135	0.23	7924	13.42	536	245	0.42	17438	29.54
443	82	0.14	2842	4.81	490	124	0.21	8048	13.63	537	271	0.46	17709	30.00
444	76	0.13	2918	4.94	491	152	0.26	8200	13.89	538	253	0.43	17962	30.43
445	81	0.14	2999	5.08	492	149	0.25	8349	14.14	539	272	0.46	18234	30.89
446	69	0.12	3068	5.20	493	148	0.25	8497	14.40	540	237	0.40	18471	31.29
447	92	0.16	3160	5.35	494	146	0.25	8643	14.64	541	251	0.43	18722	31.72
448	71	0.12	3231	5.47	495	156	0.26	8799	14.91	542	281	0.48	19003	32.19
449	80	0.14	3311	5.61	496	168	0.28	8967	15.19	543	288	0.49	19291	32.68
450	84	0.14	3395	5.75	497	143	0.24	9110	15.43	544	279	0.47	19570	33.15
451	92	0.16	3487	5.91	498	167	0.28	9277	15.72	545	312	0.53	19882	33.68
452	79	0.13	3566	6.04	499	177	0.30	9454	16.02	546	290	0.49	20172	34.17
453	98	0.17	3664	6.21	500	147	0.25	9601	16.27	547	304	0.52	20476	34.69
454	90	0.15	3754	6.36	501	157	0.27	9758	16.53	548	281	0.48	20757	35.17
455	102	0.17	3856	6.53	502	168	0.28	9926	16.82	549	285	0.48	21042	35.65
456	101	0.17	3957	6.70	503	189	0.32	10115	17.14	550	320	0.54	21362	36.19
457	98	0.17	4055	6.87	504	179	0.30	10294	17.44	551	305	0.52	21667	36.71
458	102	0.17	4157	7.04	505	174	0.29	10468	17.73	552	308	0.52	21975	37.23
459	94	0.16	4251	7.20	506	195	0.33	10663	18.06	553	292	0.49	22267	37.72
460	96	0.16	4347	7.36	507	206	0.35	10869	18.41	554	269	0.46	22536	38.18
461	93	0.16	4440	7.52	508	200	0.34	11069	18.75	555	281	0.48	22817	38.66
462	94	0.16	4534	7.68	509	172	0.29	11241	19.04	556	286	0.48	23103	39.14
463	119	0.20	4653	7.88	510	190	0.32	11431	19.37	557	328	0.56	23431	39.70
464	115	0.19	4768	8.08	511	228	0.39	11659	19.75	558	304	0.52	23735	40.21
465	102	0.17	4870	8.25	512	197	0.33	11856	20.09	559	304	0.52	24039	40.73
466	106	0.18	4976	8.43	513	182	0.31	12038	20.39	560	311	0.53	24350	41.25
467	101	0.17	5077	8.60	514	206	0.35	12244	20.74	561	292	0.49	24642	41.75
468	128	0.22	5205	8.82	515	190	0.32	12434	21.06	562	302	0.51	24944	42.26

**Table 169. Scale Score Distribution, Writing Grade 10 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
563	303	0.51	25247	42.77	610	293	0.50	39526	66.96	657	185	0.31	50130	84.93
564	321	0.54	25568	43.32	611	271	0.46	39797	67.42	658	163	0.28	50293	85.20
565	326	0.55	25894	43.87	612	271	0.46	40068	67.88	659	166	0.28	50459	85.48
566	298	0.50	26192	44.37	613	276	0.47	40344	68.35	660	157	0.27	50616	85.75
567	318	0.54	26510	44.91	614	260	0.44	40604	68.79	661	176	0.30	50792	86.05
568	285	0.48	26795	45.39	615	267	0.45	40871	69.24	662	150	0.25	50942	86.30
569	368	0.62	27163	46.02	616	298	0.50	41169	69.75	663	169	0.29	51111	86.59
570	320	0.54	27483	46.56	617	276	0.47	41445	70.21	664	168	0.28	51279	86.87
571	306	0.52	27789	47.08	618	279	0.47	41724	70.69	665	140	0.24	51419	87.11
572	339	0.57	28128	47.65	619	256	0.43	41980	71.12	666	162	0.27	51581	87.39
573	318	0.54	28446	48.19	620	280	0.47	42260	71.59	667	152	0.26	51733	87.64
574	330	0.56	28776	48.75	621	237	0.40	42497	72.00	668	145	0.25	51878	87.89
575	295	0.50	29071	49.25	622	270	0.46	42767	72.45	669	152	0.26	52030	88.15
576	308	0.52	29379	49.77	623	241	0.41	43008	72.86	670	139	0.24	52169	88.38
577	330	0.56	29709	50.33	624	231	0.39	43239	73.25	671	131	0.22	52300	88.60
578	276	0.47	29985	50.80	625	243	0.41	43482	73.66	672	124	0.21	52424	88.81
579	319	0.54	30304	51.34	626	255	0.43	43737	74.10	673	146	0.25	52570	89.06
580	284	0.48	30588	51.82	627	227	0.38	43964	74.48	674	130	0.22	52700	89.28
581	314	0.53	30902	52.35	628	236	0.40	44200	74.88	675	125	0.21	52825	89.49
582	304	0.52	31206	52.87	629	238	0.40	44438	75.28	676	124	0.21	52949	89.70
583	295	0.50	31501	53.37	630	229	0.39	44667	75.67	677	141	0.24	53090	89.94
584	332	0.56	31833	53.93	631	244	0.41	44911	76.09	678	117	0.20	53207	90.14
585	293	0.50	32126	54.43	632	221	0.37	45132	76.46	679	127	0.22	53334	90.36
586	322	0.55	32448	54.97	633	211	0.36	45343	76.82	680	134	0.23	53468	90.58
587	314	0.53	32762	55.50	634	204	0.35	45547	77.16	681	99	0.17	53567	90.75
588	301	0.51	33063	56.01	635	232	0.39	45779	77.56	682	110	0.19	53677	90.94
589	303	0.51	33366	56.53	636	222	0.38	46001	77.93	683	110	0.19	53787	91.12
590	289	0.49	33655	57.02	637	235	0.40	46236	78.33	684	109	0.18	53896	91.31
591	304	0.52	33959	57.53	638	214	0.36	46450	78.69	685	108	0.18	54004	91.49
592	307	0.52	34266	58.05	639	217	0.37	46667	79.06	686	100	0.17	54104	91.66
593	319	0.54	34585	58.59	640	222	0.38	46889	79.44	687	106	0.18	54210	91.84
594	311	0.53	34896	59.12	641	196	0.33	47085	79.77	688	114	0.19	54324	92.03
595	311	0.53	35207	59.65	642	220	0.37	47305	80.14	689	86	0.15	54410	92.18
596	304	0.52	35511	60.16	643	215	0.36	47520	80.51	690	110	0.19	54520	92.36
597	279	0.47	35790	60.63	644	235	0.40	47755	80.90	691	87	0.15	54607	92.51
598	317	0.54	36107	61.17	645	209	0.35	47964	81.26	692	96	0.16	54703	92.67
599	302	0.51	36409	61.68	646	180	0.30	48144	81.56	693	77	0.13	54780	92.80
600	305	0.52	36714	62.20	647	199	0.34	48343	81.90	694	97	0.16	54877	92.97
601	279	0.47	36993	62.67	648	177	0.30	48520	82.20	695	91	0.15	54968	93.12
602	294	0.50	37287	63.17	649	198	0.34	48718	82.54	696	88	0.15	55056	93.27
603	283	0.48	37570	63.65	650	184	0.31	48902	82.85	697	91	0.15	55147	93.43
604	305	0.52	37875	64.17	651	183	0.31	49085	83.16	698	64	0.11	55211	93.54
605	310	0.53	38185	64.69	652	182	0.31	49267	83.47	699	66	0.11	55277	93.65
606	270	0.46	38455	65.15	653	167	0.28	49434	83.75	700	75	0.13	55352	93.77
607	265	0.45	38720	65.60	654	186	0.32	49620	84.06	701	71	0.12	55423	93.89
608	239	0.40	38959	66.00	655	155	0.26	49775	84.33	702	76	0.13	55499	94.02
609	274	0.46	39233	66.47	656	170	0.29	49945	84.61	703	66	0.11	55565	94.13

**Table 169. Scale Score Distribution, Writing Grade 10 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
704	99	0.17	55664	94.30	751	33	0.06	57927	98.14	798	6	0.01	58638	99.34
705	73	0.12	55737	94.43	752	25	0.04	57952	98.18	799	11	0.02	58649	99.36
706	77	0.13	55814	94.56	753	24	0.04	57976	98.22	800	4	0.01	58653	99.37
707	66	0.11	55880	94.67	754	23	0.04	57999	98.26	801	8	0.01	58661	99.38
708	71	0.12	55951	94.79	755	30	0.05	58029	98.31	802	9	0.02	58670	99.40
709	75	0.13	56026	94.92	756	23	0.04	58052	98.35	803	2	0.00	58672	99.40
710	55	0.09	56081	95.01	757	22	0.04	58074	98.39	804	10	0.02	58682	99.42
711	69	0.12	56150	95.13	758	20	0.03	58094	98.42	805	9	0.02	58691	99.43
712	65	0.11	56215	95.24	759	20	0.03	58114	98.45	806	13	0.02	58704	99.45
713	80	0.14	56295	95.37	760	18	0.03	58132	98.48	807	12	0.02	58716	99.47
714	56	0.09	56351	95.47	761	23	0.04	58155	98.52	808	8	0.01	58724	99.49
715	65	0.11	56416	95.58	762	19	0.03	58174	98.55	809	7	0.01	58731	99.50
716	67	0.11	56483	95.69	763	23	0.04	58197	98.59	810	8	0.01	58739	99.51
717	62	0.11	56545	95.80	764	15	0.03	58212	98.62	811	8	0.01	58747	99.53
718	42	0.07	56587	95.87	765	22	0.04	58234	98.66	812	5	0.01	58752	99.53
719	60	0.10	56647	95.97	766	20	0.03	58254	98.69	813	7	0.01	58759	99.55
720	49	0.08	56696	96.05	767	19	0.03	58273	98.72	814	6	0.01	58765	99.56
721	57	0.10	56753	96.15	768	20	0.03	58293	98.76	815	2	0.00	58767	99.56
722	52	0.09	56805	96.24	769	14	0.02	58307	98.78	816	6	0.01	58773	99.57
723	55	0.09	56860	96.33	770	10	0.02	58317	98.80	817	6	0.01	58779	99.58
724	55	0.09	56915	96.42	771	14	0.02	58331	98.82	818	4	0.01	58783	99.59
725	50	0.08	56965	96.51	772	19	0.03	58350	98.85	819	10	0.02	58793	99.60
726	37	0.06	57002	96.57	773	10	0.02	58360	98.87	820	5	0.01	58798	99.61
727	49	0.08	57051	96.65	774	17	0.03	58377	98.90	821	3	0.01	58801	99.62
728	32	0.05	57083	96.71	775	9	0.02	58386	98.91	823	7	0.01	58808	99.63
729	38	0.06	57121	96.77	776	15	0.03	58401	98.94	824	3	0.01	58811	99.63
730	45	0.08	57166	96.85	777	8	0.01	58409	98.95	825	3	0.01	58814	99.64
731	64	0.11	57230	96.96	778	10	0.02	58419	98.97	826	2	0.00	58816	99.64
732	45	0.08	57275	97.03	779	12	0.02	58431	98.99	827	5	0.01	58821	99.65
733	44	0.07	57319	97.11	780	7	0.01	58438	99.00	828	6	0.01	58827	99.66
734	41	0.07	57360	97.18	781	20	0.03	58458	99.04	829	5	0.01	58832	99.67
735	44	0.07	57404	97.25	782	18	0.03	58476	99.07	830	1	0.00	58833	99.67
736	34	0.06	57438	97.31	783	8	0.01	58484	99.08	831	6	0.01	58839	99.68
737	49	0.08	57487	97.39	784	15	0.03	58499	99.11	832	12	0.02	58851	99.70
738	35	0.06	57522	97.45	785	8	0.01	58507	99.12	833	5	0.01	58856	99.71
739	32	0.05	57554	97.50	786	12	0.02	58519	99.14	834	5	0.01	58861	99.72
740	48	0.08	57602	97.59	787	22	0.04	58541	99.18	836	4	0.01	58865	99.73
741	29	0.05	57631	97.63	788	9	0.02	58550	99.19	837	7	0.01	58872	99.74
742	36	0.06	57667	97.70	789	10	0.02	58560	99.21	838	1	0.00	58873	99.74
743	15	0.03	57682	97.72	790	4	0.01	58564	99.22	839	1	0.00	58874	99.74
744	43	0.07	57725	97.79	791	9	0.02	58573	99.23	841	6	0.01	58880	99.75
745	25	0.04	57750	97.84	792	10	0.02	58583	99.25	842	3	0.01	58883	99.76
746	30	0.05	57780	97.89	793	12	0.02	58595	99.27	843	5	0.01	58888	99.76
747	36	0.06	57816	97.95	794	10	0.02	58605	99.29	845	2	0.00	58890	99.77
748	28	0.05	57844	98.00	795	11	0.02	58616	99.30	846	4	0.01	58894	99.77
749	27	0.05	57871	98.04	796	5	0.01	58621	99.31	848	5	0.01	58899	99.78
750	23	0.04	57894	98.08	797	11	0.02	58632	99.33	851	1	0.00	58900	99.78



**Table 169. Scale Score Distribution, Writing Grade 10 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %
853	1	0.00	58901	99.79
854	6	0.01	58907	99.80
855	3	0.01	58910	99.80
857	1	0.00	58911	99.80
858	2	0.00	58913	99.81
860	3	0.01	58916	99.81
861	6	0.01	58922	99.82
864	3	0.01	58925	99.83
865	13	0.02	58938	99.85
867	1	0.00	58939	99.85
868	1	0.00	58940	99.85
871	3	0.01	58943	99.86
872	7	0.01	58950	99.87
876	1	0.00	58951	99.87
879	4	0.01	58955	99.88
881	1	0.00	58956	99.88
882	4	0.01	58960	99.89
884	1	0.00	58961	99.89
885	4	0.01	58965	99.89
888	1	0.00	58966	99.90
898	4	0.01	58970	99.90
907	1	0.00	58971	99.91
910	1	0.00	58972	99.91
912	6	0.01	58978	99.92
917	3	0.01	58981	99.92
924	3	0.01	58984	99.93
930	1	0.00	58985	99.93
931	1	0.00	58986	99.93
947	13	0.02	58999	99.95
950	28	0.05	59027	100.00

**Table 170. Scale Score Distribution, Mathematics Grade 10**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
370	1077	1.82	1077	1.82	417	16	0.03	1603	2.71	464	72	0.12	3277	5.54
371	8	0.01	1085	1.83	418	20	0.03	1623	2.74	465	62	0.10	3339	5.64
372	3	0.01	1088	1.84	419	16	0.03	1639	2.77	466	71	0.12	3410	5.76
373	6	0.01	1094	1.85	420	22	0.04	1661	2.81	467	54	0.09	3464	5.86
374	5	0.01	1099	1.86	421	14	0.02	1675	2.83	468	61	0.10	3525	5.96
375	2	0.00	1101	1.86	422	19	0.03	1694	2.86	469	54	0.09	3579	6.05
376	6	0.01	1107	1.87	423	25	0.04	1719	2.91	470	76	0.13	3655	6.18
377	4	0.01	1111	1.88	424	22	0.04	1741	2.94	471	83	0.14	3738	6.32
378	7	0.01	1118	1.89	425	25	0.04	1766	2.99	472	67	0.11	3805	6.43
379	8	0.01	1126	1.90	426	22	0.04	1788	3.02	473	60	0.10	3865	6.53
380	6	0.01	1132	1.91	427	30	0.05	1818	3.07	474	66	0.11	3931	6.65
381	5	0.01	1137	1.92	428	22	0.04	1840	3.11	475	66	0.11	3997	6.76
382	5	0.01	1142	1.93	429	23	0.04	1863	3.15	476	65	0.11	4062	6.87
383	6	0.01	1148	1.94	430	30	0.05	1893	3.20	477	69	0.12	4131	6.98
384	6	0.01	1154	1.95	431	33	0.06	1926	3.26	478	80	0.14	4211	7.12
385	9	0.02	1163	1.97	432	26	0.04	1952	3.30	479	75	0.13	4286	7.25
386	9	0.02	1172	1.98	433	31	0.05	1983	3.35	480	87	0.15	4373	7.39
387	7	0.01	1179	1.99	434	28	0.05	2011	3.40	481	87	0.15	4460	7.54
388	11	0.02	1190	2.01	435	30	0.05	2041	3.45	482	95	0.16	4555	7.70
389	5	0.01	1195	2.02	436	30	0.05	2071	3.50	483	90	0.15	4645	7.85
390	8	0.01	1203	2.03	437	36	0.06	2107	3.56	484	100	0.17	4745	8.02
391	8	0.01	1211	2.05	438	33	0.06	2140	3.62	485	116	0.20	4861	8.22
392	11	0.02	1222	2.07	439	32	0.05	2172	3.67	486	109	0.18	4970	8.40
393	6	0.01	1228	2.08	440	21	0.04	2193	3.71	487	92	0.16	5062	8.56
394	8	0.01	1236	2.09	441	32	0.05	2225	3.76	488	92	0.16	5154	8.71
395	10	0.02	1246	2.11	442	40	0.07	2265	3.83	489	85	0.14	5239	8.86
396	11	0.02	1257	2.13	443	42	0.07	2307	3.90	490	94	0.16	5333	9.02
397	5	0.01	1262	2.13	444	36	0.06	2343	3.96	491	89	0.15	5422	9.17
398	12	0.02	1274	2.15	445	32	0.05	2375	4.02	492	119	0.20	5541	9.37
399	15	0.03	1289	2.18	446	30	0.05	2405	4.07	493	127	0.21	5668	9.58
400	14	0.02	1303	2.20	447	35	0.06	2440	4.12	494	110	0.19	5778	9.77
401	8	0.01	1311	2.22	448	28	0.05	2468	4.17	495	122	0.21	5900	9.97
402	16	0.03	1327	2.24	449	38	0.06	2506	4.24	496	115	0.19	6015	10.17
403	16	0.03	1343	2.27	450	51	0.09	2557	4.32	497	128	0.22	6143	10.39
404	20	0.03	1363	2.30	451	45	0.08	2602	4.40	498	96	0.16	6239	10.55
405	17	0.03	1380	2.33	452	52	0.09	2654	4.49	499	114	0.19	6353	10.74
406	11	0.02	1391	2.35	453	48	0.08	2702	4.57	500	106	0.18	6459	10.92
407	21	0.04	1412	2.39	454	42	0.07	2744	4.64	501	119	0.20	6578	11.12
408	15	0.03	1427	2.41	455	49	0.08	2793	4.72	502	128	0.22	6706	11.34
409	20	0.03	1447	2.45	456	48	0.08	2841	4.80	503	118	0.20	6824	11.54
410	20	0.03	1467	2.48	457	44	0.07	2885	4.88	504	143	0.24	6967	11.78
411	16	0.03	1483	2.51	458	61	0.10	2946	4.98	505	145	0.25	7112	12.02
412	13	0.02	1496	2.53	459	49	0.08	2995	5.06	506	127	0.21	7239	12.24
413	19	0.03	1515	2.56	460	51	0.09	3046	5.15	507	155	0.26	7394	12.50
414	22	0.04	1537	2.60	461	51	0.09	3097	5.24	508	144	0.24	7538	12.74
415	22	0.04	1559	2.64	462	48	0.08	3145	5.32	509	134	0.23	7672	12.97
416	28	0.05	1587	2.68	463	60	0.10	3205	5.42	510	142	0.24	7814	13.21

**Table 170. Scale Score Distribution, Mathematics Grade 10 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
511	138	0.23	7952	13.44	558	260	0.44	17462	29.52	605	327	0.55	31982	54.07
512	134	0.23	8086	13.67	559	243	0.41	17705	29.93	606	368	0.62	32350	54.69
513	151	0.26	8237	13.93	560	293	0.50	17998	30.43	607	315	0.53	32665	55.22
514	173	0.29	8410	14.22	561	271	0.46	18269	30.88	608	355	0.60	33020	55.82
515	150	0.25	8560	14.47	562	262	0.44	18531	31.33	609	323	0.55	33343	56.37
516	163	0.28	8723	14.75	563	280	0.47	18811	31.80	610	361	0.61	33704	56.98
517	156	0.26	8879	15.01	564	275	0.46	19086	32.27	611	352	0.60	34056	57.57
518	147	0.25	9026	15.26	565	305	0.52	19391	32.78	612	359	0.61	34415	58.18
519	174	0.29	9200	15.55	566	252	0.43	19643	33.21	613	362	0.61	34777	58.79
520	168	0.28	9368	15.84	567	280	0.47	19923	33.68	614	351	0.59	35128	59.39
521	164	0.28	9532	16.11	568	294	0.50	20217	34.18	615	345	0.58	35473	59.97
522	176	0.30	9708	16.41	569	281	0.48	20498	34.65	616	330	0.56	35803	60.53
523	162	0.27	9870	16.69	570	296	0.50	20794	35.15	617	347	0.59	36150	61.11
524	174	0.29	10044	16.98	571	319	0.54	21113	35.69	618	355	0.60	36505	61.71
525	173	0.29	10217	17.27	572	297	0.50	21410	36.19	619	342	0.58	36847	62.29
526	179	0.30	10396	17.58	573	299	0.51	21709	36.70	620	347	0.59	37194	62.88
527	175	0.30	10571	17.87	574	290	0.49	21999	37.19	621	326	0.55	37520	63.43
528	174	0.29	10745	18.17	575	291	0.49	22290	37.68	622	323	0.55	37843	63.98
529	204	0.34	10949	18.51	576	307	0.52	22597	38.20	623	337	0.57	38180	64.55
530	223	0.38	11172	18.89	577	323	0.55	22920	38.75	624	359	0.61	38539	65.15
531	206	0.35	11378	19.24	578	320	0.54	23240	39.29	625	323	0.55	38862	65.70
532	202	0.34	11580	19.58	579	279	0.47	23519	39.76	626	323	0.55	39185	66.24
533	201	0.34	11781	19.92	580	265	0.45	23784	40.21	627	316	0.53	39501	66.78
534	196	0.33	11977	20.25	581	303	0.51	24087	40.72	628	343	0.58	39844	67.36
535	206	0.35	12183	20.60	582	316	0.53	24403	41.25	629	328	0.55	40172	67.91
536	179	0.30	12362	20.90	583	323	0.55	24726	41.80	630	342	0.58	40514	68.49
537	196	0.33	12558	21.23	584	296	0.50	25022	42.30	631	293	0.50	40807	68.99
538	206	0.35	12764	21.58	585	313	0.53	25335	42.83	632	363	0.61	41170	69.60
539	211	0.36	12975	21.94	586	331	0.56	25666	43.39	633	314	0.53	41484	70.13
540	229	0.39	13204	22.32	587	324	0.55	25990	43.94	634	316	0.53	41800	70.67
541	192	0.32	13396	22.65	588	308	0.52	26298	44.46	635	308	0.52	42108	71.19
542	204	0.34	13600	22.99	589	305	0.52	26603	44.97	636	318	0.54	42426	71.72
543	218	0.37	13818	23.36	590	306	0.52	26909	45.49	637	299	0.51	42725	72.23
544	233	0.39	14051	23.75	591	351	0.59	27260	46.08	638	335	0.57	43060	72.80
545	221	0.37	14272	24.13	592	306	0.52	27566	46.60	639	340	0.57	43400	73.37
546	243	0.41	14515	24.54	593	373	0.63	27939	47.23	640	324	0.55	43724	73.92
547	241	0.41	14756	24.95	594	348	0.59	28287	47.82	641	288	0.49	44012	74.40
548	233	0.39	14989	25.34	595	328	0.55	28615	48.38	642	325	0.55	44337	74.95
549	228	0.39	15217	25.73	596	367	0.62	28982	49.00	643	332	0.56	44669	75.52
550	265	0.45	15482	26.17	597	367	0.62	29349	49.62	644	293	0.50	44962	76.01
551	267	0.45	15749	26.62	598	299	0.51	29648	50.12	645	336	0.57	45298	76.58
552	228	0.39	15977	27.01	599	350	0.59	29998	50.71	646	293	0.50	45591	77.07
553	201	0.34	16178	27.35	600	349	0.59	30347	51.30	647	292	0.49	45883	77.57
554	281	0.48	16459	27.82	601	330	0.56	30677	51.86	648	273	0.46	46156	78.03
555	259	0.44	16718	28.26	602	341	0.58	31018	52.44	649	300	0.51	46456	78.54
556	267	0.45	16985	28.71	603	312	0.53	31330	52.97	650	292	0.49	46748	79.03
557	217	0.37	17202	29.08	604	325	0.55	31655	53.51	651	263	0.44	47011	79.47

**Table 170. Scale Score Distribution, Mathematics Grade 10 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %	SS	Freq	%	Cum Freq	Cum %
652	256	0.43	47267	79.91	699	104	0.18	56406	95.36	746	13	0.02	58817	99.43
653	284	0.48	47551	80.39	700	104	0.18	56510	95.53	747	15	0.03	58832	99.46
654	281	0.48	47832	80.86	701	96	0.16	56606	95.70	748	11	0.02	58843	99.48
655	250	0.42	48082	81.29	702	105	0.18	56711	95.87	749	15	0.03	58858	99.50
656	276	0.47	48358	81.75	703	104	0.18	56815	96.05	750	10	0.02	58868	99.52
657	236	0.40	48594	82.15	704	90	0.15	56905	96.20	751	15	0.03	58883	99.55
658	239	0.40	48833	82.56	705	83	0.14	56988	96.34	752	15	0.03	58898	99.57
659	285	0.48	49118	83.04	706	94	0.16	57082	96.50	753	11	0.02	58909	99.59
660	262	0.44	49380	83.48	707	69	0.12	57151	96.62	754	10	0.02	58919	99.61
661	250	0.42	49630	83.90	708	86	0.15	57237	96.76	755	13	0.02	58932	99.63
662	247	0.42	49877	84.32	709	72	0.12	57309	96.88	756	12	0.02	58944	99.65
663	246	0.42	50123	84.74	710	85	0.14	57394	97.03	757	9	0.02	58953	99.66
664	263	0.44	50386	85.18	711	79	0.13	57473	97.16	758	9	0.02	58962	99.68
665	253	0.43	50639	85.61	712	72	0.12	57545	97.28	759	10	0.02	58972	99.70
666	237	0.40	50876	86.01	713	56	0.09	57601	97.38	760	8	0.01	58980	99.71
667	220	0.37	51096	86.38	714	65	0.11	57666	97.49	761	10	0.02	58990	99.73
668	223	0.38	51319	86.76	715	65	0.11	57731	97.60	762	8	0.01	58998	99.74
669	240	0.41	51559	87.16	716	65	0.11	57796	97.71	763	7	0.01	59005	99.75
670	202	0.34	51761	87.51	717	56	0.09	57852	97.80	764	6	0.01	59011	99.76
671	222	0.38	51983	87.88	718	56	0.09	57908	97.90	765	6	0.01	59017	99.77
672	248	0.42	52231	88.30	719	52	0.09	57960	97.98	766	3	0.01	59020	99.78
673	207	0.35	52438	88.65	720	53	0.09	58013	98.07	767	11	0.02	59031	99.80
674	199	0.34	52637	88.99	721	49	0.08	58062	98.16	768	5	0.01	59036	99.80
675	226	0.38	52863	89.37	722	49	0.08	58111	98.24	769	10	0.02	59046	99.82
676	192	0.32	53055	89.69	723	34	0.06	58145	98.30	770	6	0.01	59052	99.83
677	180	0.30	53235	90.00	724	36	0.06	58181	98.36	771	11	0.02	59063	99.85
678	187	0.32	53422	90.31	725	55	0.09	58236	98.45	772	2	0.00	59065	99.85
679	162	0.27	53584	90.59	726	43	0.07	58279	98.52	773	2	0.00	59067	99.86
680	179	0.30	53763	90.89	727	38	0.06	58317	98.59	775	8	0.01	59075	99.87
681	164	0.28	53927	91.17	728	35	0.06	58352	98.65	776	2	0.00	59077	99.87
682	170	0.29	54097	91.45	729	34	0.06	58386	98.71	777	1	0.00	59078	99.87
683	160	0.27	54257	91.72	730	34	0.06	58420	98.76	778	3	0.01	59081	99.88
684	143	0.24	54400	91.97	731	28	0.05	58448	98.81	779	3	0.01	59084	99.89
685	169	0.29	54569	92.25	732	40	0.07	58488	98.88	780	3	0.01	59087	99.89
686	164	0.28	54733	92.53	733	32	0.05	58520	98.93	781	3	0.01	59090	99.90
687	141	0.24	54874	92.77	734	27	0.05	58547	98.98	782	3	0.01	59093	99.90
688	164	0.28	55038	93.05	735	39	0.07	58586	99.04	783	3	0.01	59096	99.91
689	138	0.23	55176	93.28	736	39	0.07	58625	99.11	784	1	0.00	59097	99.91
690	144	0.24	55320	93.52	737	18	0.03	58643	99.14	786	2	0.00	59099	99.91
691	123	0.21	55443	93.73	738	30	0.05	58673	99.19	787	1	0.00	59100	99.91
692	124	0.21	55567	93.94	739	19	0.03	58692	99.22	788	3	0.01	59103	99.92
693	133	0.22	55700	94.16	740	22	0.04	58714	99.26	791	3	0.01	59106	99.92
694	106	0.18	55806	94.34	741	29	0.05	58743	99.31	792	3	0.01	59109	99.93
695	127	0.21	55933	94.56	742	17	0.03	58760	99.34	793	1	0.00	59110	99.93
696	126	0.21	56059	94.77	743	15	0.03	58775	99.36	794	1	0.00	59111	99.93
697	116	0.20	56175	94.97	744	14	0.02	58789	99.39	795	4	0.01	59115	99.94
698	127	0.21	56302	95.18	745	15	0.03	58804	99.41	796	1	0.00	59116	99.94

**Table 170. Scale Score Distribution, Mathematics Grade 10 (cont'd)**

(SS = Scale Score, Freq. = Frequency, Cum. = Cumulative)

SS	Freq	%	Cum Freq	Cum %
798	1	0.00	59117	99.94
799	1	0.00	59118	99.94
800	2	0.00	59120	99.95
801	2	0.00	59122	99.95
802	2	0.00	59124	99.95
803	1	0.00	59125	99.95
805	1	0.00	59126	99.96
806	1	0.00	59127	99.96
807	1	0.00	59128	99.96
809	3	0.01	59131	99.96
810	1	0.00	59132	99.97
813	2	0.00	59134	99.97
814	1	0.00	59135	99.97
815	1	0.00	59136	99.97
816	1	0.00	59137	99.97
818	2	0.00	59139	99.98
819	1	0.00	59140	99.98
820	1	0.00	59141	99.98
822	1	0.00	59142	99.98
823	1	0.00	59143	99.98
844	1	0.00	59144	99.99
849	2	0.00	59146	99.99
950	6	0.01	59152	100.00

**Table 171. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 3**

Name	CS 1	SA 1/4	SA 2	SA 3	Total
Mean	555.8	555.9	546.0	577.0	555.8
SD	83.79	96.31	114.73	126.65	83.79
N	63345	63345	63345	63345	63345
CS 1		0.903	0.832	0.797	1.000
SA 1/4			0.685	0.647	0.903
SA 2				0.624	0.832
SA 3					0.797

**Table 172. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 3 (Spanish)**

Name	CS 1	SA 1/4	SA 2	SA 3	Total
Mean	525.8	527.4	527.6	525.8	525.8
SD	46.62	57.96	60.61	62.81	46.62
N	1382	1382	1382	1382	1382
CS 1		0.915	0.817	0.780	1.000
SA 1/4			0.646	0.630	0.915
SA 2				0.582	0.817
SA 3					0.780

**Table 173. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 4**

Name	CS 1	CS 4	CS 5	CS 6	SA 1/4	SA 2	SA 3	Total
Mean	588.9	584.0	592.3	579.1	586.3	580.7	616.1	587.5
SD	66.40	91.86	98.97	100.99	70.55	100.47	120.18	63.11
N	64131	64131	64131	64131	64131	64131	64131	64131
CS 1		0.734	0.691	0.696	0.885	0.772	0.680	0.935
CS 4			0.609	0.641	0.804	0.798	0.497	0.822
CS 5				0.581	0.683	0.607	0.521	0.776
CS 6					0.784	0.648	0.481	0.771
SA 1/4						0.734	0.555	0.941
SA 2							0.496	0.809
SA 3								0.640

**Table 174. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 4 (Spanish)**

Name	CS 1	CS 4	CS 5	CS 6	SA 1/4	SA 2	SA 3	Total
Mean	519.6	512.0	522.2	513.9	511.4	523.5	531.3	520.3
SD	53.71	64.98	63.73	57.60	55.06	56.55	91.47	47.23
N	153	153	153	153	153	153	153	153
CS 1		0.713	0.709	0.686	0.822	0.849	0.793	0.911
CS 4			0.665	0.646	0.815	0.694	0.577	0.826
CS 5				0.567	0.698	0.648	0.532	0.842
CS 6					0.817	0.657	0.622	0.779
SA 1/4						0.709	0.646	0.921
SA 2							0.599	0.831
SA 3								0.738

**Table 175. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 5**

Name	CS 1	CS 4	CS 5	CS 6	SA 1/4	SA 2	SA 3	Total
Mean	611.8	612.7	608.9	612.4	611.5	608.6	667.5	611.8
SD	78.65	99.36	94.77	88.19	77.11	100.24	171.58	71.15
N	64586	64586	64586	64586	64586	64586	64586	64586
CS 1		0.757	0.723	0.755	0.888	0.812	0.696	0.926
CS 4			0.676	0.689	0.835	0.755	0.554	0.852
CS 5				0.665	0.731	0.666	0.550	0.821
CS 6					0.881	0.673	0.537	0.852
SA 1/4						0.741	0.599	0.954
SA 2							0.533	0.827
SA 3								0.672

**Table 176. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 6**

Name	CS 1	CS 4	CS 5	CS 6	SA 1/4	SA 2	SA 3	Total
Mean	627.4	623.8	627.5	622.5	626.2	621.3	649.6	626.5
SD	73.21	86.53	84.67	86.55	75.59	87.08	129.50	65.59
N	63335	63335	63335	63335	63335	63335	63335	63335
CS 1		0.756	0.736	0.738	0.837	0.817	0.762	0.919
CS 4			0.682	0.724	0.835	0.825	0.563	0.866
CS 5				0.669	0.714	0.700	0.577	0.841
CS 6					0.855	0.784	0.556	0.856
SA 1/4						0.761	0.596	0.914
SA 2							0.576	0.879
SA 3								0.708

**Table 177. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 7**

Name	CS 1	CS 4	CS 5	CS 6	SA 1	SA 2	SA 3	SA 4	Total
Mean	642.9	640.6	646.9	640.2	642.0	641.6	708.4	635.1	641.3
SD	72.32	80.91	84.56	77.48	74.57	74.93	173.60	98.11	64.09
N	63091	63091	63091	63091	63091	63091	63091	63091	63091
CS 1		0.765	0.730	0.759	0.846	0.876	0.703	0.689	0.934
CS 4			0.680	0.719	0.799	0.846	0.541	0.708	0.874
CS 5				0.666	0.700	0.687	0.551	0.606	0.840
CS 6					0.852	0.733	0.531	0.807	0.868
SA 1						0.752	0.563	0.664	0.902
SA 2							0.535	0.661	0.893
SA 3								0.486	0.671
SA 4									0.783

**Table 178. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 8**

Name	CS 1	CS 4	CS 5	CS 6	SA 1	SA 2	SA 3	SA 4	Total
Mean	653.9	648.1	651.6	648.5	649.9	651.4	697.9	643.6	650.2
SD	70.30	78.56	80.50	77.80	76.59	73.09	151.17	107.72	60.20
N	61966	61966	61966	61966	61966	61966	61966	61966	61966
CS 1		0.731	0.729	0.732	0.757	0.855	0.733	0.650	0.913
CS 4			0.691	0.703	0.820	0.773	0.547	0.671	0.859
CS 5				0.685	0.691	0.703	0.548	0.601	0.857
CS 6					0.791	0.732	0.542	0.783	0.860
SA 1						0.692	0.544	0.600	0.859
SA 2							0.521	0.613	0.873
SA 3								0.485	0.678
SA 4									0.754

**Table 179. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 9**

Name	CS 1	CS 4	CS 5	CS 6	SA 1	SA 2	SA 3	SA 4	Total
Mean	658.8	655.5	664.6	651.9	652.7	659.6	675.8	648.9	658.2
SD	57.67	72.10	70.60	73.48	71.57	64.91	111.82	92.80	49.91
N	61645	61645	61645	61645	61645	61645	61645	61645	61645
CS 1		0.722	0.689	0.688	0.721	0.859	0.700	0.683	0.913
CS 4			0.620	0.665	0.781	0.759	0.501	0.655	0.838
CS 5				0.593	0.618	0.624	0.533	0.552	0.802
CS 6					0.800	0.653	0.480	0.732	0.804
SA 1						0.655	0.509	0.605	0.829
SA 2							0.480	0.620	0.849
SA 3								0.447	0.651
SA 4									0.750



**Table 180. Scale Score Correlations by Content Standard and Subcontent Area, Reading Grade 10**

<b>Name</b>	<b>CS 1</b>	<b>CS 4</b>	<b>CS 5</b>	<b>CS 6</b>	<b>SA 1</b>	<b>SA 2</b>	<b>SA 3</b>	<b>SA 4</b>	<b>Total</b>
Mean	681.9	682.6	687.6	680.1	683.0	679.7	700.5	677.5	682.9
SD	64.62	63.88	75.64	71.08	62.13	73.48	123.31	83.23	53.73
N	58986	58986	58986	58986	58986	58986	58986	58986	58986
CS 1		0.750	0.709	0.732	0.816	0.823	0.659	0.716	0.916
CS 4			0.675	0.689	0.797	0.790	0.542	0.716	0.872
CS 5				0.632	0.666	0.653	0.517	0.606	0.821
CS 6					0.841	0.714	0.497	0.692	0.837
SA 1						0.703	0.520	0.651	0.888
SA 2							0.495	0.613	0.847
SA 3								0.478	0.643
SA 4									0.774

**Table 181. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 3**

Name	CS 2	CS 3	SA 5	SA 7	SA 8	Total
Mean	467.5	471.4	469.0	499.4	470.7	465.8
SD	61.61	64.13	64.16	105.41	87.25	50.43
N	63489	63489	63489	63489	63489	63489
CS 2		0.672	0.960	0.571	0.565	0.897
CS 3			0.657	0.782	0.826	0.890
SA 5				0.532	0.543	0.871
SA 7					0.533	0.753
SA 8						0.753

**Table 182. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 3 (Spanish)**

Name	CS 2	CS 3	SA 5	SA 7	SA 8	Total
Mean	522.4	508.8	542.2	510.4	527.3	513.0
SD	85.58	81.31	113.47	91.09	121.22	75.18
N	1394	1394	1394	1394	1394	1394
CS 2		0.764	0.898	0.665	0.599	0.936
CS 3			0.673	0.905	0.805	0.930
SA 5				0.534	0.530	0.839
SA 7					0.573	0.830
SA 8						0.747

**Table 183. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 4**

Name	CS 2	CS 3	SA 5	SA 6	SA 7	SA 8	Total
Mean	486.4	488.8	486.4	502.6	494.4	487.7	485.8
SD	55.15	60.26	61.74	96.48	81.71	82.82	50.82
N	64096	64096	64096	64096	64096	64096	64096
CS 2		0.748	0.910	0.761	0.648	0.647	0.933
CS 3			0.697	0.513	0.838	0.849	0.918
SA 5				0.530	0.606	0.608	0.859
SA 6					0.421	0.440	0.677
SA 7						0.586	0.791
SA 8							0.799

**Table 184. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 4 (Spanish)**

Name	CS 2	CS 3	SA 5	SA 6	SA 7	SA 8	Total
Mean	492.0	503.0	485.5	491.8	508.9	478.0	500.4
SD	52.97	58.68	66.62	76.45	70.58	86.40	48.30
N	147	147	147	147	147	147	147
CS 2		0.669	0.892	0.800	0.504	0.527	0.882
CS 3			0.612	0.558	0.828	0.679	0.918
SA 5				0.607	0.467	0.503	0.812
SA 6					0.361	0.401	0.690
SA 7						0.485	0.761
SA 8							0.681

**Table 185. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 5**

Name	CS 2	CS 3	SA 5	SA 6	SA 7	SA 8	Total
Mean	504.4	506.0	504.3	538.9	503.7	517.9	503.5
SD	59.94	64.00	67.11	127.75	79.16	99.53	54.80
N	64571	64571	64571	64571	64571	64571	64571
CS 2		0.746	0.898	0.743	0.695	0.638	0.930
CS 3			0.685	0.490	0.868	0.811	0.923
SA 5				0.495	0.634	0.569	0.844
SA 6					0.424	0.418	0.652
SA 7						0.597	0.840
SA 8							0.776

**Table 186. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 6**

Name	CS 2	CS 3	SA 5	SA 6	SA 7	SA 8	Total
Mean	521.5	522.8	521.4	556.5	517.5	528.9	520.9
SD	63.78	65.91	70.09	140.13	89.60	90.58	58.21
N	63356	63356	63356	63356	63356	63356	63356
CS 2		0.754	0.914	0.681	0.682	0.669	0.922
CS 3			0.690	0.462	0.842	0.819	0.936
SA 5				0.488	0.615	0.598	0.843
SA 6					0.390	0.393	0.600
SA 7						0.610	0.820
SA 8							0.798

**Table 187. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 7**

Name	CS 2	CS 3	SA 5	SA 6	SA 7	SA 8	Total
Mean	558.6	560.1	559.1	583.1	561.5	560.6	557.2
SD	76.77	77.09	84.92	144.13	85.66	120.18	68.84
N	63087	63087	63087	63087	63087	63087	63087
CS 2		0.749	0.908	0.696	0.719	0.630	0.925
CS 3			0.673	0.466	0.936	0.787	0.935
SA 5				0.496	0.636	0.545	0.836
SA 6					0.416	0.387	0.612
SA 7						0.632	0.885
SA 8							0.761

**Table 188. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 8**

Name	CS 2	CS 3	SA 5	SA 6	SA 7	SA 8	Total
Mean	565.4	567.7	566.2	602.8	567.7	584.5	564.6
SD	74.12	76.11	82.81	156.11	82.40	136.29	67.18
N	61919	61919	61919	61919	61919	61919	61919
CS 2		0.742	0.903	0.724	0.738	0.563	0.930
CS 3			0.661	0.452	0.939	0.742	0.926
SA 5				0.514	0.640	0.503	0.834
SA 6					0.422	0.353	0.626
SA 7						0.592	0.895
SA 8							0.700

**Table 189. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 9**

Name	CS 2	CS 3	SA 5	SA 6	SA 7	SA 8	Total
Mean	571.9	578.5	570.2	640.1	583.4	594.5	571.2
SD	83.78	94.59	93.61	194.79	114.92	139.05	76.59
N	61687	61687	61687	61687	61687	61687	61687
CS 2		0.729	0.911	0.727	0.687	0.591	0.934
CS 3			0.669	0.463	0.902	0.790	0.899
SA 5				0.512	0.624	0.537	0.851
SA 6					0.421	0.395	0.640
SA 7						0.586	0.835
SA 8							0.728

**Table 190. Scale Score Correlations by Content Standard and Subcontent Area, Writing Grade 10**

<b>Name</b>	<b>CS 2</b>	<b>CS 3</b>	<b>SA 5</b>	<b>SA 6</b>	<b>SA 7</b>	<b>SA 8</b>	<b>Total</b>
Mean	579.2	584.5	577.6	634.6	599.0	580.9	577.3
SD	90.62	96.83	99.04	194.25	128.17	143.39	81.56
N	59027	59027	59027	59027	59027	59027	59027
CS 2		0.712	0.924	0.729	0.644	0.564	0.930
CS 3			0.672	0.442	0.857	0.778	0.901
SA 5				0.513	0.601	0.531	0.865
SA 6					0.380	0.376	0.637
SA 7						0.521	0.794
SA 8							0.712

**Table 191. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 3**

Name	CS 1	CS 2/3	CS 4/5	CS 6	Total
Mean	457.9	467.2	472.0	464.1	464.2
SD	124.16	120.39	107.79	112.54	90.14
N	64879	64879	64879	64879	64879
CS 1		0.682	0.658	0.654	0.827
CS 2/3			0.683	0.689	0.888
CS 4/5				0.659	0.862
CS 6					0.846

**Table 192. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 4**

Name	CS 1	CS 2	CS 3	CS 4/5	CS 6	SA 1	SA 2	SA 3	Total
Mean	490.4	510.4	500.2	497.4	499.6	492.7	510.4	509.9	492.5
SD	92.14	130.11	121.38	94.48	102.16	88.31	130.11	124.04	77.66
N	64320	64320	64320	64320	64320	64320	64320	64320	64320
CS 1		0.699	0.694	0.746	0.742	0.919	0.699	0.642	0.896
CS 2			0.660	0.678	0.687	0.722	1.000	0.579	0.821
CS 3				0.689	0.677	0.721	0.660	0.589	0.822
CS 4/5					0.720	0.768	0.678	0.823	0.888
CS 6						0.848	0.687	0.612	0.873
SA 1							0.722	0.660	0.921
SA 2								0.579	0.821
SA 3									0.754

**Table 193. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 5**

Name	CS 1	CS 2	CS 3	CS 4/5	CS 6	SA 1	SA 2	SA 3	Total
Mean	522.7	518.2	518.3	520.2	527.5	519.9	519.3	518.3	518.7
SD	97.43	87.19	89.89	90.85	99.58	91.27	88.96	95.77	73.45
N	64651	64651	64651	64651	64651	64651	64651	64651	64651
CS 1		0.755	0.741	0.728	0.711	0.881	0.748	0.740	0.880
CS 2			0.768	0.737	0.723	0.777	0.976	0.746	0.899
CS 3				0.756	0.704	0.760	0.774	0.936	0.889
CS 4/5					0.688	0.743	0.732	0.751	0.877
CS 6						0.845	0.717	0.684	0.849
SA 1							0.769	0.739	0.900
SA 2								0.741	0.891
SA 3									0.867

**Table 194. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 6**

Name	CS 1	CS 2	CS 3	CS 4/5	CS 6	SA 1	SA 2	SA 3	Total
Mean	537.0	540.1	536.7	535.4	564.6	540.9	540.7	526.4	538.2
SD	97.06	94.14	95.73	91.39	132.64	98.94	99.11	112.67	76.78
N	63434	63434	63434	63434	63434	63434	63434	63434	63434
CS 1		0.768	0.746	0.771	0.663	0.911	0.761	0.665	0.889
CS 2			0.766	0.778	0.683	0.776	0.975	0.671	0.904
CS 3				0.765	0.666	0.755	0.764	0.654	0.887
CS 4/5					0.672	0.771	0.769	0.853	0.907
CS 6						0.745	0.676	0.582	0.784
SA 1							0.768	0.666	0.890
SA 2								0.663	0.893
SA 3									0.782

**Table 195. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 7**

Name	CS 1/6	CS 2	CS 3	CS 4/5	SA 1	SA 2	Total
Mean	562.2	561.4	558.2	546.3	553.9	541.7	562.3
SD	87.09	99.52	93.66	112.65	99.69	119.26	78.49
N	63183	63183	63183	63183	63183	63183	63183
CS 1/6		0.751	0.771	0.733	0.795	0.693	0.926
CS 2			0.735	0.674	0.707	0.641	0.867
CS 3				0.705	0.869	0.669	0.898
CS 4/5					0.675	0.944	0.840
SA 1						0.641	0.857
SA 2							0.798

**Table 196. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 8**

Name	CS 1/6	CS 2	CS 3	CS 4/5	SA 1	SA 2	SA 3	Total
Mean	574.5	571.2	574.1	573.1	571.3	549.2	571.8	576.7
SD	80.45	90.88	85.49	85.44	90.81	120.29	94.34	70.98
N	62031	62031	62031	62031	62031	62031	62031	62031
CS 1/6		0.757	0.767	0.790	0.759	0.808	0.723	0.925
CS 2			0.737	0.753	0.976	0.677	0.691	0.879
CS 3				0.759	0.759	0.689	0.693	0.886
CS 4/5					0.753	0.749	0.912	0.906
SA 1						0.680	0.691	0.880
SA 2							0.642	0.814
SA 3								0.830

**Table 197. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 9**

Name	CS 1/6	CS 2	CS 3	CS 4/5	SA 1	SA 2	Total
Mean	569.2	571.1	576.5	566.9	574.9	553.1	577.5
SD	97.39	90.11	83.29	98.79	105.51	116.95	75.44
N	61849	61849	61849	61849	61849	61849	61849
CS 1/6		0.684	0.690	0.657	0.639	0.792	0.814
CS 2			0.774	0.693	0.839	0.668	0.905
CS 3				0.698	0.709	0.721	0.916
CS 4/5					0.754	0.668	0.817
SA 1						0.623	0.826
SA 2							0.790

**Table 198. Scale Score Correlations by Content Standard and Subcontent Area, Mathematics Grade 10**

Name	CS 1/6	CS 2	CS 3	CS 4/5	SA 1	SA 2	Total
Mean	576.7	586.3	589.9	560.5	589.5	595.1	591.0
SD	104.40	85.30	83.85	120.34	82.38	128.73	73.85
N	59152	59152	59152	59152	59152	59152	59152
CS 1/6		0.675	0.645	0.627	0.675	0.430	0.777
CS 2			0.754	0.723	0.876	0.481	0.910
CS 3				0.700	0.855	0.579	0.902
CS 4/5					0.785	0.450	0.824
SA 1						0.483	0.938
SA 2							0.546



**Table 199. Cronbach Alpha Reliability Coefficients for Content Standards**

Content Area	Grade	Alpha						Total
		CS 1	CS 2	CS 3	CS 4	CS 5	CS 6	
Reading	3	0.90						0.90
	4	0.87			0.69	0.74	0.73	0.93
	5	0.85			0.80	0.76	0.67	0.94
	6	0.85			0.74	0.73	0.70	0.93
	7	0.83			0.74	0.73	0.70	0.93
	8	0.81			0.67	0.75	0.69	0.92
	9	0.79			0.74	0.75	0.73	0.92
	10	0.79			0.75	0.73	0.70	0.92
Writing	3		0.82	0.88				0.92
	4		0.83	0.87				0.92
	5		0.81	0.86				0.91
	6		0.80	0.86				0.91
	7		0.81	0.84				0.90
	8		0.82	0.86				0.91
	9		0.82	0.88				0.91
	10		0.83	0.85				0.91
Mathematics	3	0.66	0.80		0.70		0.65	0.91
	4	0.75	0.75	0.73	0.80		0.78	0.94
	5	0.79	0.76	0.77	0.77		0.81	0.95
	6	0.79	0.76	0.80	0.82		0.73	0.95
	7	0.80	0.72	0.77	0.79			0.93
	8	0.82	0.79	0.75	0.81			0.94
	9	0.74	0.79	0.77	0.75			0.93
	10	0.73	0.85	0.75	0.77			0.94
Reading Spanish	3	0.87						0.87
	4	0.87			0.71	0.67	0.61	0.93
Writing Spanish	3		0.85	0.86				0.92
	4		0.80	0.83				0.89

**Table 200. Cronbach Alpha Reliability Coefficients for Subcontent Areas**

Content Area	Grade	Alpha							
		SA 1	SA 2	SA 3	SA 4	SA 5	SA 6	SA 7	SA 8
Reading	3	0.73	0.75	0.81					
	4	0.86	0.77	0.72					
	5	0.87	0.76	0.63					
	6	0.82	0.82	0.65					
	7	0.80	0.75	0.66	0.63				
	8	0.69	0.74	0.71	0.67				
	9	0.77	0.75	0.61	0.67				
	10	0.78	0.72	0.59	0.68				
Writing	3					0.83		0.80	0.72
	4					0.73	0.73	0.75	0.80
	5					0.71	0.71	0.77	0.79
	6					0.69	0.71	0.79	0.79
	7					0.70	0.64	0.82	0.63
	8					0.69	0.73	0.84	0.64
	9					0.71	0.70	0.85	0.68
	10					0.74	0.70	0.86	0.63
Mathematics	3								
	4	0.79	0.75	0.61					
	5	0.80	0.77	0.72					
	6	0.77	0.77	0.72					
	7	0.71	0.71						
	8	0.77	0.77	0.70					
	9	0.61	0.79						
10	0.83	0.29							
Reading Spanish	3	0.79	0.64	0.60					
	4	0.84	0.77	0.69					
Writing Spanish	3					0.88		0.78	0.72
	4					0.67	0.69	0.79	0.63

**Table 201. Subgroup Reliability for the TCAP Reading Tests**

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
3	No Disability	57127	567.17	69.58	150	795	150	795	0.88	24.08
	Disability	6054	450.52	122.10	150	795	150	761	0.89	39.98
	No IEP	57132	567.17	69.57	150	795	150	795	0.88	24.07
	IEP	6200	450.61	121.90	150	795	150	761	0.89	40.03
	No Accommodation	49170	569.58	68.83	150	795	150	795	0.88	24.14
	Accommodation	9678	472.55	107.70	150	795	150	789	0.88	37.43
	Am. Indian/AK Native	463	517.98	96.75	150	795	150	703	0.89	32.17
	Asian	2047	567.59	87.01	150	795	150	795	0.90	27.54
	Black	2958	520.63	88.74	150	795	150	794	0.88	30.26
	Hispanic	20442	523.65	84.96	150	795	150	795	0.88	29.22
	White	34847	576.52	75.27	150	795	150	795	0.89	25.42
	Hawaiian/Pacific Islander	141	558.39	75.87	150	795	150	777	0.88	26.10
	Two or More Races	2445	567.88	77.69	150	795	150	795	0.90	25.20
	Not Free Lunch Eligible	35098	581.03	72.31	150	795	150	795	0.88	24.90
	Free Lunch Eligible	23708	520.16	87.68	150	795	150	795	0.88	30.08
	Reduced Lunch Eligible	4507	546.27	75.67	150	795	150	795	0.88	26.52
	Female	30956	563.64	77.22	150	795	150	795	0.89	25.48
	Male	32384	548.22	88.97	150	795	150	795	0.90	27.92
	Language Proficiency NA	51280	565.85	79.60	150	795	150	795	0.89	26.10
	Language Proficiency NEP	1276	406.27	119.80	150	795	150	677	0.81	52.41
	Language Proficiency LEP	9230	515.01	70.53	150	795	150	736	0.84	27.97
Language Proficiency FEP	1245	592.40	51.53	150	795	150	795	0.82	22.18	
Not Migrant Or Immigrant	62677	556.46	83.05	150	795	150	795	0.90	26.69	
Migrant	154	499.23	77.72	150	795	150	623	0.84	31.08	
Immigrant	479	488.29	127.50	150	795	150	776	0.91	38.12	
Migrant and Immigrant	21	433.00	131.00	150	795	150	601	0.86	48.22	
4	No Disability	57628	596.63	50.62	180	940	180	940	0.92	14.20
	Disability	6307	505.16	96.49	180	940	180	705	0.93	25.21
	No IEP	57622	596.66	50.58	180	940	180	940	0.92	14.19
	IEP	6448	505.36	96.03	180	940	180	705	0.93	25.22
	No Accommodation	48543	597.97	50.22	180	940	180	940	0.92	14.31
	Accommodation	10981	531.31	84.54	180	940	180	773	0.94	21.57
	Am. Indian/AK Native	478	556.97	74.07	180	940	180	696	0.94	18.46
	Asian/Pacific Islander	2017	599.43	62.74	180	940	180	759	0.94	15.68
	Black	2871	561.38	71.34	180	940	180	753	0.93	18.30
	Hispanic	21295	562.56	66.22	180	940	180	736	0.93	17.63
	White	35058	603.94	54.03	180	940	180	940	0.92	14.95
	Hawaiian/Pacific Islander	147	588.03	47.96	180	940	436	709	0.92	13.45
	Two or More Races	2210	595.74	61.86	180	940	180	763	0.93	16.32
	Not Free Lunch Eligible	35634	607.89	50.08	180	940	180	940	0.92	14.37
	Free Lunch Eligible	23927	558.34	69.16	180	940	180	753	0.93	18.35
	Reduced Lunch Eligible	4500	580.65	59.59	180	940	180	747	0.93	16.22
	Female	31431	595.14	56.66	180	940	180	779	0.93	14.85
	Male	32646	580.07	67.95	180	940	180	940	0.94	17.04
	Language Proficiency NA	51170	595.90	58.43	180	940	180	940	0.93	15.50
	Language Proficiency NEP	888	464.20	115.00	180	940	180	656	0.91	34.67
	Language Proficiency LEP	8551	542.42	57.83	180	940	180	722	0.90	18.04
Language Proficiency FEP	3223	606.70	34.46	180	940	404	759	0.86	13.10	
Not Migrant Or Immigrant	63533	587.91	62.60	180	940	180	940	0.94	16.00	
Migrant	139	539.53	79.73	180	940	180	697	0.93	20.96	
Immigrant	391	535.11	97.73	180	940	180	698	0.95	21.33	
Migrant and Immigrant	7	434.71	116.00	180	940	180	513	0.50	82.15	

**Table 201. Subgroup Reliability for the TCAP Reading Tests (cont'd)**

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM	
5	No Disability	57799	622.84	58.19	220	955	220	843	0.92	16.32	
	Disability	6636	517.44	97.88	220	955	220	783	0.93	25.69	
	No IEP	57788	622.85	58.18	220	955	220	843	0.92	16.32	
	IEP	6785	518.01	97.54	220	955	220	783	0.93	25.62	
	No Accommodation	48785	623.64	58.16	220	955	220	842	0.92	16.44	
	Accommodation	11154	549.21	91.55	220	955	220	811	0.94	22.47	
	Am. Indian/AK Native	462	582.01	82.95	220	955	220	748	0.94	20.13	
	Asian	2089	628.55	69.64	220	955	220	795	0.94	17.57	
	Black	2902	581.70	78.77	220	955	220	746	0.94	19.92	
	Hispanic	21437	583.46	74.27	220	955	220	796	0.93	19.42	
	White	35210	630.27	61.39	220	955	220	843	0.92	16.99	
	Hawaiian/Pacific Islander	162	609.09	69.12	220	955	220	758	0.93	18.07	
	Two or More Races	2321	622.91	68.06	220	955	220	811	0.93	17.45	
	Not Free Lunch Eligible	36095	634.85	58.69	220	955	220	843	0.92	16.76	
	Free Lunch Eligible	23874	579.12	75.82	220	955	220	811	0.93	19.83	
	Reduced Lunch Eligible	4595	601.09	66.02	220	955	220	774	0.93	17.97	
	Female	31832	621.27	65.46	220	955	220	843	0.93	17.09	
	Male	32752	602.66	75.14	220	955	220	797	0.94	18.68	
	Language Proficiency NA	51460	621.36	66.13	220	955	220	843	0.93	17.42	
	Language Proficiency NEP	928	467.96	108.10	220	955	220	692	0.90	33.54	
	Language Proficiency LEP	7826	556.40	64.62	220	955	220	735	0.90	20.44	
	Language Proficiency FEP	4091	630.86	41.80	220	955	220	777	0.85	16.01	
	Not Migrant Or Immigrant	64011	612.46	70.50	220	955	220	843	0.94	17.90	
	Migrant	167	553.60	80.95	220	955	220	711	0.92	22.78	
	Immigrant	384	536.60	107.90	220	955	220	745	0.95	23.37	
	Migrant and Immigrant	13	472.54	121.10	220	955	220	585	0.86	44.83	
	6	No Disability	56915	636.01	56.19	260	970	260	860	0.92	16.30
		Disability	6283	542.34	81.46	260	970	260	764	0.92	23.31
No IEP		56918	636.01	56.19	260	970	260	860	0.92	16.30	
IEP		6411	542.59	81.41	260	970	260	764	0.92	23.30	
No Accommodation		49692	635.35	56.57	260	970	260	860	0.92	16.33	
Accommodation		8577	564.90	82.95	260	970	260	821	0.94	21.22	
Am. Indian/AK Native		446	598.78	66.89	260	970	260	775	0.92	18.66	
Asian/Pacific Islander		2095	642.82	68.58	260	970	260	860	0.93	17.95	
Black		2881	596.60	70.72	260	970	260	792	0.93	18.86	
Hispanic		20944	598.80	66.60	260	970	260	788	0.92	18.46	
White		34699	644.52	57.36	260	970	260	852	0.92	16.55	
Hawaiian/Pacific Islander		119	622.33	55.70	260	970	477	738	0.92	15.75	
Two or More Races		2148	637.24	59.87	260	970	260	788	0.92	16.92	
Not Free Lunch Eligible		35472	648.32	55.34	260	970	260	860	0.91	16.37	
Free Lunch Eligible		23040	594.99	67.76	260	970	260	791	0.92	18.85	
Reduced Lunch Eligible		4805	617.28	60.83	260	970	260	771	0.92	17.42	
Female		30967	635.91	60.66	260	970	260	860	0.92	16.67	
Male		32365	617.60	68.80	260	970	260	852	0.93	17.93	
Language Proficiency NA		50599	635.80	60.86	260	970	260	852	0.92	16.85	
Language Proficiency NEP		815	481.70	92.92	260	970	260	719	0.88	32.10	
Language Proficiency LEP		6691	566.20	56.36	260	970	260	759	0.88	19.76	
Language Proficiency FEP		4892	637.24	42.90	260	970	260	860	0.87	15.69	
Not Migrant Or Immigrant		62758	627.23	64.89	260	970	260	860	0.93	17.29	
Migrant		162	570.57	72.79	260	970	260	702	0.92	20.62	
Immigrant		397	545.89	100.30	260	970	260	729	0.95	23.59	
Migrant and Immigrant		12	510.58	71.90	260	970	432	649	0.94	17.48	

**Table 201. Subgroup Reliability for the TCAP Reading Tests (cont'd)**

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM	
7	No Disability	57032	650.18	55.77	300	980	300	879	0.91	16.67	
	Disability	5954	557.57	76.56	300	980	300	763	0.92	21.39	
	No IEP	57044	650.19	55.73	300	980	300	879	0.91	16.66	
	IEP	6039	557.68	76.38	300	980	300	763	0.92	21.37	
	No Accommodation	51157	648.63	56.26	300	980	300	879	0.91	16.64	
	Accommodation	6823	574.51	81.21	300	980	300	824	0.94	20.42	
	Am. Indian/AK Native	526	618.52	62.58	300	980	300	776	0.93	16.96	
	Asian	1970	659.30	68.77	300	980	300	862	0.94	17.60	
	Black	2898	612.70	66.09	300	980	300	779	0.93	17.88	
	Hispanic	20585	614.65	66.07	300	980	300	862	0.93	18.05	
	White	34755	658.22	55.85	300	980	300	879	0.91	16.70	
	Hawaiian/Pacific Islander	136	643.31	64.07	300	980	429	786	0.93	17.05	
	Two or More Races	2216	651.13	61.00	300	980	300	811	0.92	16.87	
	Not Free Lunch Eligible	36079	661.87	54.44	300	980	300	879	0.91	16.67	
	Free Lunch Eligible	22260	610.02	66.02	300	980	300	816	0.93	18.12	
	Reduced Lunch Eligible	4723	632.16	61.06	300	980	300	820	0.92	17.49	
	Female	31107	650.76	60.15	300	980	300	879	0.92	17.06	
	Male	31978	632.16	66.44	300	980	300	819	0.93	17.39	
	Language Proficiency NA	50792	649.78	59.61	300	980	300	879	0.92	16.89	
	Language Proficiency NEP	801	494.04	85.16	300	980	300	711	0.89	27.68	
	Language Proficiency LEP	6319	583.22	54.51	300	980	300	747	0.89	18.14	
	Language Proficiency FEP	4861	652.73	44.35	300	980	300	800	0.86	16.64	
	Not Migrant Or Immigrant	62503	642.00	63.41	300	980	300	879	0.93	17.23	
	Migrant	165	588.48	66.77	300	980	300	729	0.92	18.95	
	Immigrant	393	563.50	99.09	300	980	300	801	0.95	21.28	
	Migrant and Immigrant	22	560.45	95.74	300	980	350	763	0.95	21.56	
	8	No Disability	56446	657.65	53.48	330	990	330	858	0.91	16.06
		Disability	5393	573.47	70.89	330	990	330	774	0.90	21.98
No IEP		56457	657.64	53.48	330	990	330	858	0.91	16.06	
IEP		5503	573.65	70.93	330	990	330	774	0.90	22.00	
No Accommodation		50166	656.37	54.18	330	990	330	850	0.91	16.19	
Accommodation		6675	592.45	72.29	330	990	330	835	0.92	19.89	
Am. Indian/AK Native		506	625.64	61.01	330	990	330	750	0.92	17.21	
Asian/Pacific Islander		1964	666.54	62.58	330	990	330	841	0.93	16.75	
Black		2963	620.50	63.32	330	990	330	840	0.92	17.87	
Hispanic		20136	624.00	58.80	330	990	330	831	0.91	17.37	
White		34220	666.93	53.98	330	990	330	858	0.91	16.32	
Hawaiian/Pacific Islander		133	640.47	50.81	330	990	489	752	0.90	15.75	
Two or More Races		2040	661.59	55.53	330	990	330	850	0.92	16.20	
Not Free Lunch Eligible		36304	669.23	52.62	330	990	330	858	0.91	16.16	
Free Lunch Eligible		21201	619.65	60.07	330	990	330	850	0.91	17.72	
Reduced Lunch Eligible		4433	640.36	56.23	330	990	330	824	0.91	16.90	
Female		30252	659.66	56.09	330	990	330	858	0.92	16.22	
Male		31712	641.14	62.54	330	990	330	834	0.92	17.22	
Language Proficiency NA		50188	658.29	57.28	330	990	330	858	0.92	16.57	
Language Proficiency NEP		880	525.22	66.92	330	990	330	763	0.83	27.29	
Language Proficiency LEP		5338	592.10	44.66	330	990	330	750	0.84	17.75	
Language Proficiency FEP		5180	652.61	40.76	330	990	330	825	0.86	15.36	
Not Migrant Or Immigrant		61402	650.85	59.63	330	990	330	858	0.92	16.74	
Migrant		147	597.31	57.03	330	990	330	730	0.90	18.02	
Immigrant		395	569.84	80.17	330	990	330	777	0.93	21.15	
Migrant and Immigrant		15	553.33	51.91	330	990	462	660	0.89	17.15	

**Table 201. Subgroup Reliability for the TCAP Reading Tests (cont'd)**

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
9	No Disability	56362	663.97	45.34	350	995	350	886	0.92	13.19
	Disability	5172	596.80	54.57	350	995	350	752	0.90	17.52
	No IEP	56364	663.98	45.33	350	995	350	886	0.92	13.19
	IEP	5271	596.67	54.89	350	995	350	752	0.90	17.63
	No Accommodation	52313	661.27	46.73	350	995	350	886	0.92	13.35
	Accommodation	4011	601.53	58.12	350	995	350	779	0.92	16.70
	Am. Indian/AK Native	477	640.06	49.29	350	995	350	749	0.92	14.37
	Asian	1861	670.89	53.14	350	995	350	852	0.93	13.72
	Black	3104	635.81	52.34	350	995	350	805	0.92	14.80
	Hispanic	19662	637.98	48.19	350	995	350	878	0.92	13.94
	White	34339	670.89	45.88	350	995	350	886	0.92	13.33
	Hawaiian/Pacific Islander	166	653.36	57.64	350	995	350	751	0.93	15.26
	Two or More Races	2032	667.27	46.54	350	995	350	834	0.92	13.27
	Not Free Lunch Eligible	37530	671.76	45.45	350	995	350	886	0.92	13.24
	Free Lunch Eligible	19761	634.32	49.23	350	995	350	834	0.92	14.31
	Reduced Lunch Eligible	4319	649.92	47.19	350	995	350	797	0.91	13.95
	Female	30183	667.29	46.05	350	995	350	886	0.92	13.07
	Male	31457	649.52	51.89	350	995	350	837	0.93	14.03
	Language Proficiency NA	50419	664.23	47.81	350	995	350	886	0.92	13.46
	Language Proficiency NEP	830	557.69	56.24	350	995	350	722	0.81	24.72
	Language Proficiency LEP	4466	609.97	38.69	350	995	350	746	0.86	14.73
	Language Proficiency FEP	5363	657.43	36.08	350	995	350	803	0.88	12.55
	Not Migrant Or Immigrant	61005	658.90	49.38	350	995	350	886	0.92	13.59
	Migrant	137	608.20	44.35	350	995	506	723	0.90	13.82
Immigrant	474	589.16	59.01	350	995	350	751	0.92	16.72	
Migrant and Immigrant	14	560.71	66.48	350	995	376	653	0.88	23.48	
10	No Disability	54160	688.56	49.13	370	999	370	876	0.91	14.45
	Disability	4722	619.40	62.12	370	999	370	808	0.91	19.04
	No IEP	54146	688.57	49.10	370	999	370	876	0.91	14.45
	IEP	4831	619.52	62.03	370	999	370	808	0.91	19.02
	No Accommodation	50145	685.73	50.75	370	999	370	876	0.92	14.64
	Accommodation	3543	624.84	62.77	370	999	370	803	0.92	17.85
	Am. Indian/AK Native	462	663.19	57.00	370	999	370	789	0.92	16.49
	Asian/Pacific Islander	1905	696.76	56.60	370	999	370	859	0.93	14.99
	Black	2900	658.72	56.12	370	999	370	818	0.92	15.96
	Hispanic	18157	660.89	53.22	370	999	370	823	0.92	15.51
	White	33589	695.98	48.79	370	999	370	876	0.91	14.41
	Hawaiian/Pacific Islander	146	679.99	48.20	370	999	531	829	0.92	14.04
	Two or More Races	1824	690.88	52.13	370	999	370	833	0.92	15.00
	Not Free Lunch Eligible	37344	695.96	49.00	370	999	370	863	0.91	14.47
	Free Lunch Eligible	17716	657.19	54.63	370	999	370	876	0.92	15.83
	Reduced Lunch Eligible	3879	675.28	48.78	370	999	370	841	0.91	14.68
	Female	29020	692.00	49.35	370	999	370	859	0.92	14.12
	Male	29960	674.12	56.28	370	999	370	876	0.92	15.50
	Language Proficiency NA	48412	689.26	51.22	370	999	370	876	0.92	14.69
	Language Proficiency NEP	583	569.33	67.28	370	999	370	747	0.84	27.26
	Language Proficiency LEP	3384	623.62	46.86	370	999	370	742	0.86	17.63
	Language Proficiency FEP	6035	676.62	40.78	370	999	370	839	0.88	13.91
	Not Migrant Or Immigrant	58358	683.61	53.08	370	999	370	876	0.92	14.82
	Migrant	126	629.77	61.15	370	999	370	752	0.92	17.26
Immigrant	478	615.54	73.48	370	999	370	766	0.93	19.14	
Migrant and Immigrant	12	582.17	47.60	370	999	517	678	0.87	17.20	

**Table 202. Subgroup Reliability for the TCAP Writing Tests**

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
3	No Disability	57244	471.68	46.48	150	680	150	680	0.90	14.47
	Disability	6077	412.08	53.35	150	680	150	680	0.91	15.84
	No IEP	57246	471.69	46.48	150	680	150	680	0.90	14.47
	IEP	6228	411.81	53.14	150	680	150	680	0.91	15.82
	No Accommodation	48468	473.89	45.52	150	680	150	680	0.90	14.49
	Accommodation	10600	421.47	49.73	150	680	150	680	0.91	15.19
	Am. Indian/AK Native	464	442.09	50.06	150	680	150	680	0.91	14.72
	Asian	2053	476.63	55.13	150	680	150	680	0.93	15.11
	Black	2971	445.68	51.34	150	680	150	680	0.92	14.35
	Hispanic	20499	448.99	47.47	150	680	150	680	0.91	13.93
	White	34903	476.63	48.46	150	680	150	680	0.91	14.78
	Hawaiian/Pacific Islander	145	468.65	55.99	150	680	150	680	0.91	16.82
	Two or More Races	2450	472.18	49.17	150	680	249	680	0.91	14.45
	Not Free Lunch Eligible	35209	480.32	47.98	150	680	150	680	0.90	14.94
	Free Lunch Eligible	23751	445.47	47.64	150	680	150	680	0.91	14.02
	Reduced Lunch Eligible	4497	459.73	44.85	150	680	150	680	0.91	13.85
	Female	31024	475.16	49.27	150	680	150	680	0.91	14.73
	Male	32460	456.87	49.90	150	680	150	680	0.92	14.12
	Language Proficiency NA	51394	470.78	49.29	150	680	150	680	0.91	14.49
	Language Proficiency NEP	1287	384.86	63.83	150	680	150	574	0.91	19.44
	Language Proficiency LEP	9248	445.37	38.95	150	680	150	680	0.89	13.01
	Language Proficiency FEP	1245	493.66	41.20	150	680	272	680	0.85	16.22
	Not Migrant Or Immigrant	62825	466.17	50.07	150	680	150	680	0.92	14.38
Migrant	150	438.75	44.70	150	680	280	602	0.91	13.60	
Immigrant	480	431.51	75.06	150	680	150	680	0.95	16.71	
Migrant and Immigrant	22	392.00	79.23	150	680	150	529	0.93	20.32	
4	No Disability	57593	491.83	47.37	190	730	190	730	0.90	14.69
	Disability	6306	431.96	48.91	190	730	190	629	0.90	15.39
	No IEP	57587	491.84	47.37	190	730	190	730	0.90	14.69
	IEP	6448	431.81	48.70	190	730	190	629	0.90	15.39
	No Accommodation	47251	493.85	46.41	190	730	190	730	0.90	14.65
	Accommodation	12172	447.23	50.02	190	730	190	730	0.91	15.15
	Am. Indian/AK Native	479	459.10	48.36	190	730	315	628	0.91	14.53
	Asian/Pacific Islander	2016	503.70	56.33	190	730	190	712	0.92	15.54
	Black	2869	465.23	51.16	190	730	190	679	0.92	14.82
	Hispanic	21273	466.53	46.92	190	730	190	680	0.91	14.37
	White	35045	498.07	48.31	190	730	190	730	0.91	14.83
	Hawaiian/Pacific Islander	148	487.02	51.65	190	730	360	619	0.91	15.16
	Two or More Races	2211	492.66	51.74	190	730	190	700	0.91	15.20
	Not Free Lunch Eligible	35622	502.19	47.50	190	730	190	730	0.90	14.94
	Free Lunch Eligible	23908	462.78	47.11	190	730	190	700	0.91	14.48
	Reduced Lunch Eligible	4496	478.38	45.91	190	730	234	700	0.90	14.32
	Female	31414	495.47	49.88	190	730	190	730	0.91	14.96
	Male	32628	476.48	49.97	190	730	190	730	0.92	14.42
	Language Proficiency NA	51153	491.56	49.68	190	730	190	730	0.91	14.75
	Language Proficiency NEP	891	406.30	57.52	190	730	190	570	0.90	18.18
	Language Proficiency LEP	8532	452.51	39.41	190	730	190	708	0.88	13.83
	Language Proficiency FEP	3221	504.19	37.04	190	730	356	689	0.83	15.31
	Not Migrant Or Immigrant	63498	486.11	50.58	190	730	190	730	0.92	14.72
Migrant	139	449.72	49.38	190	730	307	572	0.92	13.97	
Immigrant	391	450.49	68.54	190	730	190	705	0.94	16.82	
Migrant and Immigrant	7	389.29	47.08	190	730	335	458	0.86	17.69	

**Table 202. Subgroup Reliability for the TCAP Writing Tests (cont'd)**

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM	
5	No Disability	57783	510.55	50.73	220	780	220	780	0.89	16.55	
	Disability	6637	443.12	50.98	220	780	220	692	0.88	17.38	
	No IEP	57772	510.56	50.73	220	780	220	780	0.89	16.55	
	IEP	6786	443.16	50.90	220	780	220	692	0.88	17.38	
	No Accommodation	47540	512.31	49.53	220	780	220	759	0.89	16.39	
	Accommodation	12282	462.14	55.93	220	780	220	780	0.90	17.46	
	Am. Indian/AK Native	461	477.36	54.06	220	780	325	635	0.91	16.17	
	Asian	2090	521.46	59.35	220	780	220	750	0.91	17.54	
	Black	2903	480.51	55.29	220	780	220	689	0.91	16.86	
	Hispanic	21422	483.29	51.13	220	780	220	759	0.90	16.32	
	White	35213	516.39	52.11	220	780	220	780	0.90	16.67	
	Hawaiian/Pacific Islander	162	501.14	52.22	220	780	331	648	0.90	16.62	
	Two or More Races	2317	511.58	54.80	220	780	243	750	0.91	16.75	
	Not Free Lunch Eligible	36084	520.76	51.42	220	780	220	780	0.89	16.83	
	Free Lunch Eligible	23876	479.15	50.94	220	780	220	735	0.90	16.33	
	Reduced Lunch Eligible	4590	494.21	49.23	220	780	220	698	0.89	16.15	
	Female	31830	513.68	53.12	220	780	220	780	0.90	16.67	
	Male	32739	493.55	54.58	220	780	220	780	0.91	16.43	
	Language Proficiency NA	51461	509.41	53.48	220	780	220	780	0.90	16.54	
	Language Proficiency NEP	922	404.60	68.85	220	780	220	633	0.89	23.07	
	Language Proficiency LEP	7821	466.93	40.02	220	780	220	636	0.85	15.54	
	Language Proficiency FEP	4086	520.76	39.33	220	780	339	780	0.83	16.31	
	Not Migrant Or Immigrant	63994	503.93	54.35	220	780	220	780	0.91	16.56	
	Migrant	167	463.53	47.13	220	780	305	582	0.88	16.32	
	Immigrant	386	448.15	85.38	220	780	220	649	0.94	21.49	
	Migrant and Immigrant	13	408.15	71.66	220	780	306	526	0.93	19.49	
	6	No Disability	56936	528.30	54.06	230	840	230	840	0.89	17.83
		Disability	6282	454.92	51.74	230	840	230	680	0.87	19.03
No IEP		56939	528.30	54.06	230	840	230	840	0.89	17.83	
IEP		6411	454.90	51.76	230	840	230	680	0.87	19.05	
No Accommodation		48867	528.74	53.09	230	840	230	840	0.89	17.69	
Accommodation		9436	471.59	61.10	230	840	230	747	0.90	19.24	
Am. Indian/AK Native		448	492.30	53.16	230	840	287	654	0.89	17.49	
Asian/Pacific Islander		2091	543.36	61.81	230	840	230	840	0.91	18.45	
Black		2881	496.28	57.53	230	840	230	700	0.90	18.05	
Hispanic		20957	499.35	53.31	230	840	230	805	0.89	17.70	
White		34702	534.48	56.20	230	840	230	840	0.90	17.92	
Hawaiian/Pacific Islander		120	519.44	54.98	230	840	357	649	0.89	17.98	
Two or More Races		2154	528.26	56.54	230	840	256	721	0.90	17.81	
Not Free Lunch Eligible		35465	539.24	54.96	230	840	230	840	0.89	18.03	
Free Lunch Eligible		23067	494.63	53.67	230	840	230	805	0.89	17.81	
Reduced Lunch Eligible		4806	511.37	51.39	230	840	256	741	0.89	17.26	
Female		30975	532.54	54.92	230	840	230	840	0.90	17.72	
Male		32378	509.71	59.06	230	840	230	840	0.91	17.97	
Language Proficiency NA		50613	526.93	57.03	230	840	230	840	0.90	17.83	
Language Proficiency NEP		817	409.96	70.12	230	840	230	621	0.87	25.50	
Language Proficiency LEP		6692	478.94	41.48	230	840	230	628	0.84	16.87	
Language Proficiency FEP		4895	533.64	42.45	230	840	344	805	0.84	17.22	
Not Migrant Or Immigrant		62777	521.37	57.74	230	840	230	840	0.90	17.87	
Migrant		163	481.36	60.74	230	840	241	679	0.89	19.99	
Immigrant		398	461.10	85.88	230	840	230	636	0.93	22.80	
Migrant and Immigrant		12	439.83	65.99	230	840	340	537	0.92	18.23	



**Table 202. Subgroup Reliability for the TCAP Writing Tests (cont'd)**

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
7	No Disability	57021	565.31	64.89	240	890	240	890	0.89	21.72
	Disability	5960	481.02	57.51	240	890	240	843	0.86	21.90
	No IEP	57033	565.32	64.87	240	890	240	890	0.89	21.72
	IEP	6046	480.98	57.53	240	890	240	843	0.86	21.90
	No Accommodation	50181	564.48	64.18	240	890	240	890	0.89	21.56
	Accommodation	7779	497.17	67.97	240	890	240	890	0.89	22.21
	Am. Indian/AK Native	526	526.63	63.85	240	890	240	780	0.89	21.28
	Asian	1970	587.00	76.89	240	890	240	890	0.91	22.80
	Black	2896	529.96	63.27	240	890	240	750	0.89	21.06
	Hispanic	20590	529.51	62.37	240	890	240	861	0.89	20.82
	White	34751	574.01	66.07	240	890	240	890	0.89	21.73
	Hawaiian/Pacific Islander	136	557.30	73.46	240	890	341	738	0.91	21.93
	Two or More Races	2213	568.27	69.75	240	890	240	887	0.90	21.96
	Not Free Lunch Eligible	36078	579.39	65.57	240	890	240	890	0.89	22.00
	Free Lunch Eligible	22257	524.02	61.13	240	890	240	854	0.89	20.76
	Reduced Lunch Eligible	4723	544.70	60.85	240	890	260	843	0.88	20.76
	Female	31116	572.00	66.60	240	890	240	890	0.89	22.03
	Male	31965	542.86	67.93	240	890	240	890	0.90	21.06
	Language Proficiency NA	50785	564.85	67.75	240	890	240	890	0.90	21.64
	Language Proficiency NEP	801	432.03	67.34	240	890	240	627	0.83	27.87
	Language Proficiency LEP	6321	503.14	44.57	240	890	240	696	0.82	18.84
	Language Proficiency FEP	4862	568.42	52.40	240	890	263	843	0.83	21.51
	Not Migrant Or Immigrant	62499	557.85	68.36	240	890	240	890	0.90	21.56
	Migrant	165	507.62	60.76	240	890	323	664	0.89	20.55
Immigrant	393	485.83	93.96	240	890	240	730	0.93	25.03	
Migrant and Immigrant	22	477.82	98.69	240	890	240	699	0.92	28.74	
8	No Disability	56399	572.41	62.77	250	910	250	910	0.89	20.47
	Disability	5393	484.84	58.12	250	910	250	752	0.86	21.57
	No IEP	56410	572.40	62.78	250	910	250	910	0.89	20.47
	IEP	5503	484.79	58.19	250	910	250	752	0.86	21.57
	No Accommodation	49570	571.27	62.04	250	910	250	910	0.89	20.30
	Accommodation	7094	503.68	69.65	250	910	250	910	0.90	21.99
	Am. Indian/AK Native	508	536.40	64.64	250	910	335	740	0.90	20.16
	Asian/Pacific Islander	1960	587.10	74.59	250	910	250	883	0.92	21.67
	Black	2960	536.34	66.25	250	910	250	817	0.91	20.44
	Hispanic	20146	539.58	61.45	250	910	250	783	0.89	20.08
	White	34171	580.32	64.61	250	910	271	910	0.90	20.55
	Hawaiian/Pacific Islander	133	557.68	58.93	250	910	397	728	0.88	20.58
	Two or More Races	2037	575.60	67.20	250	910	315	910	0.90	20.88
	Not Free Lunch Eligible	36250	584.54	63.81	250	910	250	910	0.89	20.73
	Free Lunch Eligible	21208	533.01	61.07	250	910	250	910	0.89	20.10
	Reduced Lunch Eligible	4433	553.14	60.81	250	910	250	829	0.89	20.02
	Female	30220	579.69	64.44	250	910	250	910	0.90	20.53
	Male	31697	550.24	66.58	250	910	250	910	0.91	20.22
	Language Proficiency NA	50135	571.74	66.15	250	910	251	910	0.90	20.47
	Language Proficiency NEP	874	435.92	69.35	250	910	250	663	0.83	28.26
	Language Proficiency LEP	5343	511.94	43.07	250	910	250	718	0.81	18.83
	Language Proficiency FEP	5186	571.39	47.90	250	910	250	800	0.83	19.77
	Not Migrant Or Immigrant	61357	565.33	66.54	250	910	250	910	0.91	20.44
	Migrant	147	511.67	60.26	250	910	250	631	0.88	20.83
Immigrant	393	477.59	94.60	250	910	250	740	0.92	26.20	
Migrant and Immigrant	15	451.20	76.81	250	910	327	591	0.91	23.41	

Table 202. Subgroup Reliability for the TCAP Writing Tests (cont'd)

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
9	No Disability	56425	579.21	72.89	260	930	260	930	0.91	22.40
	Disability	5149	484.66	60.12	260	930	260	832	0.87	22.04
	No IEP	56427	579.22	72.88	260	930	260	930	0.91	22.40
	IEP	5250	484.53	60.24	260	930	260	832	0.87	22.05
	No Accommodation	51728	576.14	72.12	260	930	260	930	0.91	22.04
	Accommodation	4617	487.56	72.58	260	930	260	822	0.90	23.46
	Am. Indian/AK Native	478	539.54	71.59	260	930	260	766	0.91	21.80
	Asian	1858	594.61	86.75	260	930	260	930	0.92	23.96
	Black	3105	536.67	71.59	260	930	260	790	0.91	21.67
	Hispanic	19685	540.87	67.95	260	930	260	930	0.90	21.27
	White	34362	590.03	74.50	260	930	260	930	0.91	22.49
	Hawaiian/Pacific Islander	164	567.79	72.97	260	930	312	779	0.91	21.62
	Two or More Races	2031	584.20	74.45	260	930	294	910	0.91	22.32
	Not Free Lunch Eligible	37553	592.28	73.99	260	930	260	930	0.91	22.59
	Free Lunch Eligible	19781	534.17	68.36	260	930	260	930	0.90	21.45
	Reduced Lunch Eligible	4318	557.02	66.41	260	930	260	910	0.90	21.09
	Female	30198	587.41	74.78	260	930	260	930	0.91	22.75
	Male	31484	555.56	75.06	260	930	260	930	0.92	21.50
	Language Proficiency NA	50455	579.74	75.27	260	930	260	930	0.91	22.20
	Language Proficiency NEP	825	424.17	74.35	260	930	260	678	0.81	32.26
	Language Proficiency LEP	4469	505.08	47.03	260	930	260	823	0.82	19.80
	Language Proficiency FEP	5371	568.03	56.41	260	930	260	930	0.86	21.17
Not Migrant Or Immigrant	61045	572.22	75.71	260	930	260	930	0.92	22.12	
Migrant	139	489.61	68.61	260	930	260	628	0.88	23.60	
Immigrant	474	463.18	95.59	260	930	260	709	0.91	28.61	
Migrant and Immigrant	14	429.71	80.94	260	930	260	538	0.77	38.67	
10	No Disability	54193	585.05	78.29	270	950	270	950	0.90	25.16
	Disability	4726	490.50	66.00	270	950	270	950	0.88	23.01
	No IEP	54179	585.07	78.28	270	950	270	950	0.90	25.16
	IEP	4839	490.62	65.85	270	950	270	950	0.88	23.01
	No Accommodation	49756	581.09	78.17	270	950	270	950	0.90	24.84
	Accommodation	3826	494.23	74.75	270	950	270	861	0.90	23.88
	Am. Indian/AK Native	463	540.86	73.03	270	950	328	721	0.90	22.77
	Asian/Pacific Islander	1902	606.42	88.77	270	950	270	950	0.91	26.10
	Black	2908	544.94	75.82	270	950	270	848	0.91	23.23
	Hispanic	18167	546.40	72.77	270	950	270	947	0.90	23.28
	White	33613	595.14	80.23	270	950	270	950	0.90	25.41
	Hawaiian/Pacific Islander	146	571.36	74.42	270	950	395	832	0.90	23.03
	Two or More Races	1825	587.95	79.95	270	950	270	865	0.90	25.05
	Not Free Lunch Eligible	37368	596.63	80.14	270	950	270	950	0.90	25.60
	Free Lunch Eligible	17730	539.67	72.53	270	950	270	912	0.90	23.00
	Reduced Lunch Eligible	3882	563.94	70.61	270	950	270	832	0.89	23.53
	Female	29029	595.87	79.29	270	950	270	950	0.90	25.68
	Male	29992	559.37	79.71	270	950	270	950	0.91	23.74
	Language Proficiency NA	48447	585.61	80.60	270	950	270	950	0.90	24.98
	Language Proficiency NEP	576	421.91	76.07	270	950	270	692	0.84	30.83
	Language Proficiency LEP	3383	499.38	51.46	270	950	270	865	0.83	21.05
	Language Proficiency FEP	6049	569.45	63.10	270	950	270	950	0.86	23.71
Not Migrant Or Immigrant	58404	578.29	80.87	270	950	270	950	0.91	24.76	
Migrant	126	506.78	78.53	270	950	277	729	0.91	23.42	
Immigrant	473	480.47	96.65	270	950	270	814	0.92	27.68	
Migrant and Immigrant	12	432.33	90.60	270	950	304	580	0.91	27.85	

**Table 203. Subgroup Reliability for the TCAP Mathematics Tests**

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
3	No Disability	58535	473.65	83.87	150	700	150	700	0.90	27.21
	Disability	6180	377.08	98.93	150	700	150	700	0.91	30.22
	No IEP	58542	473.66	83.86	150	700	150	700	0.90	27.21
	IEP	6326	376.55	98.65	150	700	150	700	0.91	30.23
	No Accommodation	49525	478.33	81.60	150	700	150	700	0.89	27.09
	Accommodation	10904	384.48	87.99	150	700	150	700	0.89	29.60
	Am. Indian/AK Native	469	425.53	85.44	150	700	150	637	0.89	28.11
	Asian	2056	497.11	92.00	150	700	150	700	0.91	28.17
	Black	2973	412.78	94.02	150	700	150	700	0.90	29.15
	Hispanic	21879	429.45	86.09	150	700	150	700	0.90	27.80
	White	34914	488.26	82.89	150	700	150	700	0.89	27.31
	Hawaiian/Pacific Islander	143	462.27	83.34	150	700	150	633	0.89	27.45
	Two or More Races	2444	473.67	89.10	150	700	150	700	0.90	27.76
	Not Free Lunch Eligible	35285	493.17	82.38	150	700	150	700	0.89	27.38
	Free Lunch Eligible	24969	425.18	86.72	150	700	150	700	0.90	28.01
	Reduced Lunch Eligible	4595	453.64	83.00	150	700	150	700	0.89	27.34
	Female	31719	462.03	86.91	150	700	150	700	0.90	27.37
	Male	33158	466.26	93.08	150	700	150	700	0.91	27.98
	Language Proficiency NA	51394	474.54	87.53	150	700	150	700	0.90	27.54
	Language Proficiency NEP	1570	339.06	93.90	150	700	150	611	0.87	33.47
	Language Proficiency LEP	10351	425.21	77.38	150	700	150	700	0.88	27.00
	Language Proficiency FEP	1249	513.88	72.22	150	700	150	700	0.86	27.47
	Not Migrant Or Immigrant	64147	464.76	89.86	150	700	150	700	0.91	27.70
	Migrant	161	408.02	79.22	150	700	150	616	0.88	27.65
	Immigrant	540	418.30	105.30	150	700	150	666	0.92	29.51
	Migrant and Immigrant	22	344.68	104.40	150	700	150	472	0.89	35.41
	4	No Disability	57846	501.85	70.72	180	780	180	780	0.93
Disability		6331	408.98	86.55	180	780	180	738	0.93	22.22
No IEP		57838	501.88	70.70	180	780	180	780	0.93	18.21
IEP		6472	408.66	86.19	180	780	180	738	0.93	22.25
No Accommodation		49294	504.92	69.04	180	780	180	780	0.93	18.14
Accommodation		10639	421.15	79.73	180	780	180	738	0.93	21.23
Am. Indian/AK Native		477	452.10	80.11	180	780	180	722	0.94	19.43
Asian/Pacific Islander		2026	521.20	79.37	180	780	180	780	0.94	19.17
Black		2873	448.31	80.89	180	780	180	663	0.94	20.25
Hispanic		21487	459.74	74.87	180	780	180	780	0.93	19.20
White		35094	514.44	69.71	180	780	180	780	0.93	18.26
Hawaiian/Pacific Islander		148	486.43	78.92	180	780	200	719	0.94	19.63
Two or More Races		2215	502.68	77.01	180	780	180	761	0.94	18.83
Not Free Lunch Eligible		35667	518.49	69.42	180	780	180	780	0.93	18.28
Free Lunch Eligible		24111	455.96	75.36	180	780	180	761	0.93	19.45
Reduced Lunch Eligible		4519	482.54	69.92	180	780	180	732	0.93	18.34
Female		31520	491.48	75.00	180	780	180	780	0.94	18.57
Male		32799	493.46	80.11	180	780	180	780	0.94	19.10
Language Proficiency NA		51228	502.06	74.87	180	780	180	780	0.94	18.64
Language Proficiency NEP		1029	381.34	83.73	180	780	180	725	0.92	24.18
Language Proficiency LEP		8582	439.70	66.53	180	780	180	711	0.92	19.12
Language Proficiency FEP		3229	516.37	57.98	180	780	180	780	0.91	17.60
Not Migrant Or Immigrant		63726	492.95	77.44	180	780	180	780	0.94	18.84
Migrant		142	434.30	74.07	180	780	180	636	0.92	20.50
Immigrant		436	447.86	85.84	180	780	180	704	0.94	20.95
Migrant and Immigrant		8	331.38	73.91	180	780	180	429	0.77	35.34

Table 203. Subgroup Reliability for the TCAP Mathematics Tests (cont'd)

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
5	No Disability	57831	528.27	67.20	220	800	220	800	0.94	16.69
	Disability	6667	437.91	74.73	220	800	220	727	0.93	19.50
	No IEP	57820	528.28	67.20	220	800	220	800	0.94	16.69
	IEP	6817	437.94	74.55	220	800	220	727	0.93	19.49
	No Accommodation	49350	529.86	66.13	220	800	220	800	0.94	16.64
	Accommodation	10972	454.89	73.43	220	800	220	800	0.94	18.75
	Am. Indian/AK Native	462	481.95	73.90	220	800	220	685	0.94	17.80
	Asian	2089	550.89	74.52	220	800	220	800	0.95	17.28
	Black	2904	477.54	72.77	220	800	220	688	0.94	18.01
	Hispanic	21460	488.24	68.20	220	800	220	736	0.94	17.26
	White	35241	538.81	68.25	220	800	220	800	0.94	16.83
	Hawaiian/Pacific Islander	161	508.11	75.02	220	800	220	738	0.94	17.96
	Two or More Races	2330	527.03	72.95	220	800	220	792	0.95	17.15
	Not Free Lunch Eligible	36112	543.62	67.28	220	800	220	800	0.94	16.82
	Free Lunch Eligible	23912	483.76	68.57	220	800	220	794	0.94	17.46
	Reduced Lunch Eligible	4602	505.57	66.49	220	800	220	737	0.94	16.90
	Female	31846	518.90	70.01	220	800	220	800	0.94	16.83
	Male	32801	518.61	76.65	220	800	220	800	0.95	17.49
	Language Proficiency NA	51508	527.25	71.72	220	800	220	800	0.94	17.05
	Language Proficiency NEP	936	411.81	76.23	220	800	220	648	0.92	21.91
	Language Proficiency LEP	7839	465.48	57.63	220	800	220	686	0.91	17.22
	Language Proficiency FEP	4090	538.04	55.37	220	800	231	800	0.92	16.08
Not Migrant Or Immigrant	64069	519.18	73.22	220	800	220	800	0.95	17.17	
Migrant	168	464.69	67.72	220	800	220	680	0.93	18.27	
Immigrant	389	475.56	86.76	220	800	220	679	0.95	18.78	
Migrant and Immigrant	13	385.31	104.00	220	800	221	531	0.95	22.80	
6	No Disability	57000	548.37	69.57	240	830	240	830	0.94	16.70
	Disability	6296	447.90	78.90	240	830	240	732	0.92	21.93
	No IEP	57001	548.39	69.55	240	830	240	830	0.94	16.70
	IEP	6425	448.06	78.91	240	830	240	732	0.92	21.92
	No Accommodation	50056	547.41	68.96	240	830	240	830	0.94	16.69
	Accommodation	8350	465.67	84.04	240	830	240	793	0.94	20.77
	Am. Indian/AK Native	448	500.33	74.28	240	830	240	713	0.94	18.46
	Asian/Pacific Islander	2102	573.72	80.03	240	830	240	830	0.95	17.57
	Black	2873	495.48	78.05	240	830	240	730	0.94	19.51
	Hispanic	20982	506.28	72.00	240	830	240	788	0.94	18.23
	White	34752	558.81	70.68	240	830	240	830	0.94	16.80
	Hawaiian/Pacific Islander	122	530.67	83.86	240	830	240	793	0.95	18.67
	Two or More Races	2152	547.95	75.33	240	830	240	830	0.95	17.25
	Not Free Lunch Eligible	35527	563.75	70.21	240	830	240	830	0.94	16.67
	Free Lunch Eligible	23085	501.55	72.45	240	830	240	782	0.93	18.64
	Reduced Lunch Eligible	4805	525.80	68.39	240	830	240	751	0.94	17.37
	Female	30994	538.33	73.33	240	830	240	830	0.95	17.14
	Male	32439	538.11	79.92	240	830	240	830	0.95	17.95
	Language Proficiency NA	50668	546.90	74.27	240	830	240	830	0.95	17.23
	Language Proficiency NEP	836	412.18	83.59	240	830	240	663	0.91	24.77
	Language Proficiency LEP	6700	476.69	62.24	240	830	240	730	0.90	19.29
	Language Proficiency FEP	4892	553.84	58.87	240	830	240	790	0.93	15.90
Not Migrant Or Immigrant	62842	538.78	76.39	240	830	240	830	0.95	17.54	
Migrant	164	481.46	75.38	240	830	240	635	0.93	20.68	
Immigrant	407	479.49	98.55	240	830	240	730	0.95	21.31	
Migrant and Immigrant	13	433.08	83.66	240	830	275	595	0.93	21.69	

Table 203. Subgroup Reliability for the TCAP Mathematics Tests (cont'd)

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM	
7	No Disability	57114	572.10	71.56	280	860	280	854	0.93	19.33	
	Disability	5961	469.26	80.21	280	860	280	749	0.88	28.13	
	No IEP	57124	572.13	71.51	280	860	280	854	0.93	19.32	
	IEP	6052	469.21	80.39	280	860	280	749	0.88	28.09	
	No Accommodation	51064	569.82	71.96	280	860	280	854	0.93	19.50	
	Accommodation	7109	486.55	85.87	280	860	280	817	0.91	25.62	
	Am. Indian/AK Native	525	530.28	77.35	280	860	280	734	0.92	21.64	
	Asian	1973	599.84	82.63	280	860	280	854	0.94	20.20	
	Black	2910	517.80	78.62	280	860	280	718	0.91	24.29	
	Hispanic	20617	528.34	74.68	280	860	280	802	0.91	22.43	
	White	34797	583.78	71.15	280	860	280	823	0.93	19.22	
	Hawaiian/Pacific Islander	137	558.81	85.18	280	860	280	733	0.94	21.32	
	Two or More Races	2221	572.76	77.75	280	860	280	777	0.93	20.08	
	Not Free Lunch Eligible	36115	588.27	70.67	280	860	280	854	0.93	19.04	
	Free Lunch Eligible	22306	522.99	75.02	280	860	280	804	0.91	23.11	
	Reduced Lunch Eligible	4737	549.04	70.59	280	860	280	762	0.91	20.90	
	Female	31146	563.75	74.42	280	860	280	809	0.93	19.88	
	Male	32036	560.82	82.24	280	860	280	854	0.93	21.14	
	Language Proficiency NA	50858	570.90	76.02	280	860	280	823	0.93	20.07	
	Language Proficiency NEP	829	433.38	82.09	280	860	280	664	0.81	36.15	
	Language Proficiency LEP	6324	498.81	64.00	280	860	280	731	0.85	24.80	
	Language Proficiency FEP	4854	575.92	60.90	280	860	280	854	0.91	18.28	
	Not Migrant Or Immigrant	62581	562.84	78.10	280	860	280	854	0.93	20.50	
	Migrant	164	505.25	79.45	280	860	280	672	0.90	24.92	
	Immigrant	408	502.37	100.20	280	860	280	736	0.94	25.24	
	Migrant and Immigrant	21	478.48	86.63	280	860	336	684	0.94	22.07	
	8	No Disability	56494	585.17	64.92	310	890	310	890	0.94	16.12
		Disability	5411	489.88	71.86	310	890	310	770	0.89	24.42
No IEP		56502	585.15	64.94	310	890	310	890	0.94	16.12	
IEP		5525	489.91	71.97	310	890	310	770	0.88	24.46	
No Accommodation		50538	583.05	65.31	310	890	310	890	0.94	16.30	
Accommodation		6421	509.12	79.53	310	890	310	829	0.93	21.08	
Am. Indian/AK Native		508	546.15	69.72	310	890	310	771	0.93	18.47	
Asian/Pacific Islander		1964	610.81	74.16	310	890	310	890	0.95	16.56	
Black		2960	535.15	74.03	310	890	310	753	0.92	20.71	
Hispanic		20172	547.69	67.58	310	890	310	775	0.92	18.59	
White		34251	595.36	64.72	310	890	310	890	0.94	16.05	
Hawaiian/Pacific Islander		132	562.45	64.38	310	890	371	745	0.93	16.92	
Two or More Races		2041	585.22	70.03	310	890	310	782	0.94	16.73	
Not Free Lunch Eligible		36307	598.61	64.46	310	890	310	890	0.94	15.89	
Free Lunch Eligible		21262	541.50	68.23	310	890	310	782	0.92	19.36	
Reduced Lunch Eligible		4438	565.86	64.23	310	890	310	782	0.93	17.34	
Female		30277	578.52	66.05	310	890	310	890	0.94	16.28	
Male		31754	574.89	75.34	310	890	310	890	0.94	17.84	
Language Proficiency NA		50234	584.08	68.92	310	890	310	890	0.94	16.74	
Language Proficiency NEP		883	453.88	75.03	310	890	310	713	0.83	31.02	
Language Proficiency LEP		5350	518.82	56.17	310	890	310	746	0.87	20.36	
Language Proficiency FEP		5185	585.06	54.20	310	890	310	829	0.92	15.17	
Not Migrant Or Immigrant		61467	577.27	70.55	310	890	310	890	0.94	17.06	
Migrant		147	523.24	68.69	310	890	310	650	0.90	22.04	
Immigrant		397	506.98	91.21	310	890	310	746	0.94	23.18	
Migrant and Immigrant		15	477.47	90.58	310	890	310	648	0.93	23.54	

**Table 203. Subgroup Reliability for the TCAP Mathematics Tests (cont'd)**

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
9	No Disability	56535	586.17	69.05	340	920	340	857	0.93	18.50
	Disability	5202	485.58	78.91	340	920	340	728	0.85	30.44
	No IEP	56533	586.19	69.05	340	920	340	857	0.93	18.50
	IEP	5300	485.33	79.03	340	920	340	728	0.85	30.55
	No Accommodation	52224	582.37	70.32	340	920	340	824	0.93	18.95
	Accommodation	4386	490.23	84.90	340	920	340	756	0.89	28.62
	Am. Indian/AK Native	484	548.18	77.05	340	920	340	727	0.89	25.15
	Asian	1865	611.02	80.53	340	920	340	823	0.95	18.81
	Black	3119	535.30	78.06	340	920	340	742	0.89	25.51
	Hispanic	19742	545.81	73.70	340	920	340	782	0.90	23.58
	White	34429	597.56	67.57	340	920	340	824	0.93	17.87
	Hawaiian/Pacific Islander	166	562.75	77.76	340	920	340	707	0.91	23.01
	Two or More Races	2039	588.54	72.02	340	920	340	857	0.93	18.61
	Not Free Lunch Eligible	37644	598.50	68.62	340	920	340	857	0.93	17.93
	Free Lunch Eligible	19834	540.50	74.31	340	920	340	784	0.89	24.59
	Reduced Lunch Eligible	4334	565.14	69.05	340	920	340	755	0.91	21.28
	Female	30253	578.44	70.89	340	920	340	824	0.93	19.38
	Male	31590	576.67	79.55	340	920	340	857	0.94	20.30
	Language Proficiency NA	50586	585.28	72.73	340	920	340	857	0.93	19.13
	Language Proficiency NEP	840	443.83	78.03	340	920	340	698	0.76	38.07
	Language Proficiency LEP	4484	512.02	67.82	340	920	340	737	0.81	29.24
	Language Proficiency FEP	5370	579.65	57.85	340	920	340	823	0.90	17.97
	Not Migrant Or Immigrant	61192	578.37	74.82	340	920	340	857	0.93	19.76
	Migrant	142	503.08	77.63	340	920	340	640	0.81	33.81
	Immigrant	481	498.86	94.96	340	920	340	715	0.91	29.25
	Migrant and Immigrant	15	466.00	87.84	340	920	340	593	0.84	35.65
	10	No Disability	54290	598.74	68.67	370	950	370	950	0.93
Disability		4757	504.09	74.14	370	950	370	791	0.87	27.02
No IEP		54279	598.77	68.65	370	950	370	950	0.93	17.65
IEP		4861	503.98	74.08	370	950	370	791	0.87	27.08
No Accommodation		50381	594.52	69.90	370	950	370	950	0.93	18.07
Accommodation		3658	508.91	80.51	370	950	370	805	0.91	24.85
Am. Indian/AK Native		465	559.99	72.64	370	950	370	698	0.90	22.91
Asian/Pacific Islander		1904	628.57	77.64	370	950	370	950	0.95	17.79
Black		2903	550.11	75.13	370	950	370	756	0.91	22.61
Hispanic		18232	558.61	70.87	370	950	370	795	0.91	21.46
White		33667	609.82	67.06	370	950	370	950	0.93	17.19
Hawaiian/Pacific Islander		145	582.79	73.85	370	950	370	705	0.92	20.75
Two or More Races		1833	600.71	71.32	370	950	370	849	0.93	18.26
Not Free Lunch Eligible		37444	610.42	67.82	370	950	370	950	0.94	17.18
Free Lunch Eligible		17771	552.66	72.00	370	950	370	823	0.90	22.55
Reduced Lunch Eligible		3890	579.25	66.22	370	950	370	757	0.92	19.16
Female		29096	590.97	70.00	370	950	370	950	0.93	18.27
Male		30052	590.97	77.40	370	950	370	950	0.94	19.06
Language Proficiency NA		48545	598.77	71.09	370	950	370	950	0.94	18.05
Language Proficiency NEP		591	464.27	72.02	370	950	370	672	0.75	36.20
Language Proficiency LEP		3397	513.64	66.31	370	950	370	760	0.83	27.01
Language Proficiency FEP		6042	584.13	61.63	370	950	370	823	0.92	17.82
Not Migrant Or Immigrant		58519	591.64	73.33	370	950	370	950	0.94	18.59
Migrant		128	525.02	69.68	370	950	370	659	0.81	30.54
Immigrant		483	531.12	97.84	370	950	370	738	0.94	24.20
Migrant and Immigrant		12	448.83	85.61	370	950	370	626	0.83	35.30

**Table 204. Subgroup Reliability for the TCAP Spanish Reading Tests**

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
3	No Disability	1288	530.16	42.54	300	740	300	676	0.85	16.27
	Disability	93	466.33	58.67	300	740	300	576	0.84	23.16
	No IEP	1288	530.16	42.54	300	740	300	676	0.85	16.27
	IEP	94	466.46	58.37	300	740	300	576	0.84	23.19
	No Accommodation	1173	530.74	43.60	300	740	300	676	0.86	16.44
	Accommodation	204	497.88	53.50	300	740	300	602	0.87	19.26
	Am. Indian/AK Native	3	518.00	14.93	300	740	507	535	.	.
	Asian	.	.	.	.	.	.	.	.	.
	Black	2	516.00	26.87	300	740	497	535	.	.
	Hispanic	1372	525.93	46.74	300	740	300	676	0.87	16.96
	White	5	505.40	25.74	300	740	462	525	0.72	13.60
	Hawaiian/Pacific Islander	.	.	.	.	.	.	.	.	.
	Two or More Races	.	.	.	.	.	.	.	.	.
	Not Free Lunch Eligible	73	539.68	50.39	300	740	388	636	0.89	16.44
	Free Lunch Eligible	1213	524.32	45.94	300	740	300	676	0.86	17.03
	Reduced Lunch Eligible	96	534.28	49.99	300	740	347	670	0.90	16.19
	Female	689	535.02	41.86	300	740	300	676	0.85	16.08
	Male	693	516.68	49.27	300	740	300	659	0.87	17.61
	Language Proficiency NA	4	534.00	50.28	300	740	494	602	.	.
	Language Proficiency NEP	271	497.97	57.84	300	740	300	625	0.88	20.10
	Language Proficiency LEP	1097	532.07	40.39	300	740	300	676	0.85	15.68
	Language Proficiency FEP	8	594.13	28.63	300	740	558	636	0.17	26.17
	Not Migrant Or Immigrant	1321	526.04	46.28	300	740	300	676	0.87	16.83
	Migrant	9	504.78	37.11	300	740	446	560	0.88	13.15
Immigrant	51	523.75	56.50	300	740	300	613	0.87	20.40	
Migrant and Immigrant	1	536.00	.	300	740	536	536	.	.	
4	No Disability	149	521.23	46.31	300	790	314	605	0.93	12.57
	Disability	4	485.50	74.55	300	790	376	540	.	.
	No IEP	149	521.23	46.31	300	790	314	605	0.93	12.57
	IEP	4	485.50	74.55	300	790	376	540	.	.
	No Accommodation	90	523.73	40.38	300	790	383	602	0.92	11.49
	Accommodation	55	516.96	55.03	300	790	314	605	0.94	13.92
	Am. Indian/AK Native	.	.	.	.	.	.	.	.	.
	Asian/Pacific Islander	.	.	.	.	.	.	.	.	.
	Black	.	.	.	.	.	.	.	.	.
	Hispanic	152	520.51	47.31	300	790	314	605	0.93	12.84
	White	1	488.00	.	300	790	488	488	.	.
	Hawaiian/Pacific Islander	.	.	.	.	.	.	.	.	.
	Two or More Races	.	.	.	.	.	.	.	.	.
	Not Free Lunch Eligible	28	523.46	41.66	300	790	425	602	0.92	11.87
	Free Lunch Eligible	120	519.63	49.14	300	790	314	605	0.93	13.06
	Reduced Lunch Eligible	5	518.60	33.79	300	790	492	557	0.89	11.15
	Female	71	528.20	43.21	300	790	383	605	0.93	11.61
	Male	82	513.45	49.71	300	790	314	602	0.92	13.82
	Language Proficiency NA	1	542.00	.	300	790	542	542	.	.
	Language Proficiency NEP	126	519.58	46.98	300	790	314	605	0.92	13.08
	Language Proficiency LEP	18	521.06	55.53	300	790	368	591	0.95	12.34
	Language Proficiency FEP	.	.	.	.	.	.	.	.	.
	Not Migrant Or Immigrant	110	515.88	50.11	300	790	314	602	0.93	13.52
	Migrant	2	538.50	2.12	300	790	537	540	.	.
Immigrant	40	531.13	38.44	300	790	462	605	0.93	10.51	
Migrant and Immigrant	1	536.00	.	300	790	536	536	.	.	

**Table 205. Subgroup Reliability for the TCAP Spanish Writing Tests**

Grade	Subgroup	N	Mean	SD	Loss	Hoss	Min	Max	Alpha	SEM
3	No Disability	1301	519.13	72.12	250	750	250	750	0.91	21.95
	Disability	92	427.53	65.06	250	750	250	538	0.89	22.09
	No IEP	1301	519.13	72.12	250	750	250	750	0.91	21.95
	IEP	93	427.70	64.73	250	750	250	538	0.88	22.07
	No Accommodation	1173	520.94	69.93	250	750	250	750	0.91	21.55
	Accommodation	209	469.54	87.49	250	750	250	712	0.93	23.36
	Am. Indian/AK Native	3	494.33	121.10	250	750	371	613	.	.
	Asian	.	.	.	.	.	.	.	.	.
	Black	2	482.50	57.28	250	750	442	523	.	.
	Hispanic	1384	513.28	75.00	250	750	250	750	0.92	21.86
	White	5	468.40	108.80	250	750	285	574	0.97	18.17
	Hawaiian/Pacific Islander	.	.	.	.	.	.	.	.	.
	Two or More Races	.	.	.	.	.	.	.	.	.
	Not Free Lunch Eligible	77	511.00	98.41	250	750	250	750	0.95	22.67
	Free Lunch Eligible	1219	511.43	72.50	250	750	250	713	0.91	21.54
	Reduced Lunch Eligible	96	532.66	83.00	250	750	250	750	0.93	22.62
	Female	695	531.78	72.41	250	750	250	750	0.91	21.78
	Male	698	494.08	72.86	250	750	250	750	0.91	21.63
	Language Proficiency NA	5	501.00	110.60	250	750	363	641	0.95	24.07
	Language Proficiency NEP	275	460.59	84.95	250	750	250	710	0.93	23.03
Language Proficiency LEP	1103	525.52	65.27	250	750	300	713	0.89	21.44	
Language Proficiency FEP	8	623.75	85.84	250	750	510	750	0.79	39.44	
Not Migrant Or Immigrant	1331	513.83	74.57	250	750	250	750	0.92	21.69	
Migrant	9	446.56	58.64	250	750	381	556	0.88	19.94	
Immigrant	53	504.75	88.08	250	750	250	713	0.92	24.42	
Migrant and Immigrant	1	480.00	.	250	750	480	480	.	.	
4	No Disability	143	501.41	46.98	300	790	300	587	0.89	15.81
	Disability	4	462.75	84.29	300	790	342	532	.	.
	No IEP	143	501.41	46.98	300	790	300	587	0.89	15.81
	IEP	4	462.75	84.29	300	790	342	532	.	.
	No Accommodation	78	503.37	40.79	300	790	395	587	0.88	14.28
	Accommodation	61	498.10	51.63	300	790	342	586	0.90	16.62
	Am. Indian/AK Native	.	.	.	.	.	.	.	.	.
	Asian/Pacific Islander	.	.	.	.	.	.	.	.	.
	Black	.	.	.	.	.	.	.	.	.
	Hispanic	146	500.62	48.36	300	790	300	587	0.89	16.13
	White	1	462.00	.	300	790	462	462	.	.
	Hawaiian/Pacific Islander	.	.	.	.	.	.	.	.	.
	Two or More Races	.	.	.	.	.	.	.	.	.
	Not Free Lunch Eligible	27	497.59	44.46	300	790	395	564	0.89	14.90
	Free Lunch Eligible	115	501.58	48.69	300	790	300	587	0.88	16.58
	Reduced Lunch Eligible	5	487.20	66.56	300	790	420	571	0.96	13.97
	Female	68	514.96	40.07	300	790	444	587	0.88	13.64
	Male	79	487.80	51.40	300	790	300	571	0.88	17.97
	Language Proficiency NA	1	456.00	.	300	790	456	456	.	.
	Language Proficiency NEP	123	499.87	45.54	300	790	342	582	0.88	15.75
Language Proficiency LEP	16	509.38	70.06	300	790	300	587	0.93	18.33	
Language Proficiency FEP	.	.	.	.	.	.	.	.	.	
Not Migrant Or Immigrant	105	496.57	50.87	300	790	300	586	0.89	16.62	
Migrant	2	519.50	24.75	300	790	502	537	.	.	
Immigrant	39	510.21	41.13	300	790	409	587	0.88	14.38	
Migrant and Immigrant	1	476.00	.	300	790	476	476	.	.	



**Table 206. Scale Scores by Accommodation and Disability Classification**

Content Area	Grade	Disability Classification	Accommodation					
			No Accommodation			Accommodation		
			N	Mean	SD	N	Mean	SD
Reading	3	No Disability	51447	573.72	64.69	5680	507.80	82.92
		Disability	2169	502.34	110.72	3885	421.58	118.62
		No IEP	51440	573.75	64.66	5692	507.70	82.91
		IEP	2217	501.54	111.00	3983	422.27	118.49
	4	No Disability	51078	601.36	47.03	6550	559.74	61.35
		Disability	1974	541.31	86.46	4333	488.69	96.33
		No IEP	51075	601.37	47.02	6547	559.88	61.16
		IEP	2015	541.09	86.16	4433	489.12	95.91
	5	No Disability	51394	627.86	54.41	6405	582.52	70.56
		Disability	1991	550.10	90.97	4645	503.44	97.41
		No IEP	51384	627.87	54.40	6404	582.54	70.54
		IEP	2036	550.03	90.45	4749	504.28	97.26
	6	No Disability	52619	639.16	53.55	4296	597.39	71.42
		Disability	2094	563.27	78.56	4189	531.88	80.87
		No IEP	52615	639.17	53.54	4303	597.38	71.40
		IEP	2137	563.36	78.39	4274	532.20	80.91
	7	No Disability	53909	652.57	53.74	3123	608.87	71.76
		Disability	2311	577.49	70.65	3643	544.93	77.49
		No IEP	53913	652.58	53.71	3131	609.06	71.51
		IEP	2348	577.30	70.53	3691	545.20	77.35
8	No Disability	53162	660.05	51.71	3284	618.81	65.40	
	Disability	2068	584.69	71.88	3325	566.49	69.36	
	No IEP	53165	660.04	51.71	3292	618.84	65.36	
	IEP	2120	584.61	71.97	3383	566.77	69.41	
9	No Disability	54991	665.01	44.51	1371	622.43	57.27	
	Disability	2584	602.97	53.18	2588	590.63	55.26	
	No IEP	54986	665.01	44.51	1378	622.72	57.11	
	IEP	2639	602.86	53.55	2632	590.46	55.52	
10	No Disability	52947	689.65	48.15	1213	640.89	65.21	
	Disability	2441	622.16	64.21	2281	616.45	59.69	
	No IEP	52933	689.65	48.17	1213	641.54	64.24	
	IEP	2502	622.66	63.53	2329	616.15	60.21	

**Table 206. Scale Scores by Accommodation and Disability Classification (cont'd)**

Content Area	Grade	Disability Classification	Accommodation					
			No Accommodation			Accommodation		
			N	Mean	SD	N	Mean	SD
Writing	3	No Disability	51117	475.83	45.05	6127	437.08	43.77
		Disability	1726	442.47	50.65	4351	400.02	49.46
		No IEP	51115	475.84	45.05	6131	437.14	43.77
		IEP	1762	441.81	50.45	4466	399.97	49.38
	4	No Disability	50370	495.85	46.19	7223	463.80	46.03
		Disability	1474	461.41	47.61	4832	422.98	45.66
		No IEP	50371	495.86	46.19	7216	463.85	46.01
		IEP	1494	460.99	47.43	4954	423.02	45.55
	5	No Disability	50834	514.44	49.12	6949	482.08	53.22
		Disability	1423	469.57	52.43	5214	435.90	48.12
		No IEP	50821	514.45	49.12	6951	482.07	53.24
		IEP	1456	468.78	52.45	5330	436.16	48.15
	6	No Disability	52339	531.18	52.29	4597	495.55	62.52
		Disability	1541	473.82	52.45	4741	448.78	50.00
		No IEP	52336	531.18	52.29	4603	495.62	62.48
		IEP	1578	473.85	52.57	4833	448.71	49.97
	7	No Disability	53490	568.03	63.49	3531	524.22	71.67
		Disability	1779	496.55	59.48	4181	474.41	55.35
		No IEP	53493	568.04	63.47	3540	524.35	71.58
		IEP	1808	496.25	59.55	4238	474.47	55.39
	8	No Disability	53023	575.06	61.09	3376	530.79	73.19
		Disability	1750	497.25	60.97	3643	478.88	55.74
		No IEP	53026	575.06	61.10	3384	530.77	73.17
		IEP	1793	496.81	61.13	3710	478.97	55.80
9	No Disability	54830	581.32	71.21	1595	506.69	90.69	
	Disability	2189	494.62	61.27	2960	477.29	58.17	
	No IEP	54825	581.32	71.21	1602	507.16	90.61	
	IEP	2236	494.47	61.42	3014	477.16	58.27	
10	No Disability	52892	586.97	76.94	1301	507.04	91.79	
	Disability	2256	493.58	68.77	2470	487.69	63.26	
	No IEP	52881	586.98	76.94	1298	507.34	91.89	
	IEP	2312	494.02	68.51	2527	487.51	63.17	

**Table 206. Scale Scores by Accommodation and Disability Classification (cont'd)**

Content Area	Grade	Disability Classification	Accommodation					
			No Accommodation			Accommodation		
			N	Mean	SD	N	Mean	SD
Mathematics	3	No Disability	52162	481.87	80.54	6373	406.36	80.23
		Disability	1773	435.76	97.84	4407	353.47	89.07
		No IEP	52161	481.89	80.53	6381	406.44	80.20
		IEP	1805	434.31	97.58	4521	353.50	89.18
	4	No Disability	51996	508.17	67.92	5850	445.70	70.36
		Disability	1648	459.81	83.25	4683	391.10	80.38
		No IEP	51993	508.18	67.92	5845	445.85	70.26
		IEP	1679	458.93	82.79	4793	391.04	80.23
	5	No Disability	52050	533.40	65.36	5781	482.05	65.91
		Disability	1583	481.29	74.47	5084	424.41	69.50
		No IEP	52044	533.41	65.36	5776	482.10	65.91
		IEP	1622	480.49	74.46	5195	424.66	69.43
	6	No Disability	53210	551.60	67.71	3790	503.07	78.87
		Disability	1823	481.31	78.20	4473	434.29	75.04
		No IEP	53207	551.60	67.71	3794	503.29	78.69
		IEP	1869	481.52	78.18	4556	434.33	75.02
	7	No Disability	54044	574.75	70.06	3070	525.48	80.94
		Disability	1985	494.76	80.72	3976	456.53	76.86
		No IEP	54048	574.76	70.04	3076	525.88	80.67
		IEP	2020	494.48	80.71	4032	456.55	77.19
8	No Disability	53615	587.33	63.52	2879	544.86	76.47	
	Disability	1936	507.42	73.09	3475	480.11	69.28	
	No IEP	53620	587.32	63.54	2882	544.82	76.50	
	IEP	1987	507.47	73.00	3538	480.05	69.48	
9	No Disability	55041	587.93	67.56	1494	521.52	89.42	
	Disability	2369	499.41	78.46	2833	474.01	77.42	
	No IEP	55034	587.94	67.56	1499	522.08	89.51	
	IEP	2415	499.24	78.67	2885	473.68	77.43	
10	No Disability	53005	600.25	67.47	1285	536.50	86.69	
	Disability	2438	513.58	74.33	2319	494.11	72.62	
	No IEP	52992	600.28	67.44	1287	536.53	86.73	
	IEP	2491	513.55	74.14	2370	493.93	72.69	

**Table 206. Scale Scores by Accommodation and Disability Classification (cont'd)**

Content Area	Grade	Disability Classification	Accommodation					
			No Accommodation			Accommodation		
			N	Mean	SD	N	Mean	SD
Reading Spanish	3	No Disability	1137	532.20	42.47	151	514.78	39.97
		Disability	40	488.33	52.45	53	449.74	58.08
		No IEP	1137	532.20	42.47	151	514.78	39.97
		IEP	41	488.07	51.82	53	449.74	58.08
	4	No Disability	96	522.35	42.82	53	519.19	52.42
		Disability	2	513.00	14.14	2	458.00	115.97
		No IEP	96	522.35	42.82	53	519.19	52.42
		IEP	2	513.00	14.14	2	458.00	115.97
Writing Spanish	3	No Disability	1152	522.64	69.65	149	491.99	84.37
		Disability	32	453.31	49.33	60	413.78	68.54
		No IEP	1152	522.64	69.65	149	491.99	84.37
		IEP	33	453.00	48.59	60	413.78	68.54
	4	No Disability	84	501.98	46.35	59	500.61	48.27
		Disability	2	501.50	43.13	2	424.00	115.97
		No IEP	84	501.98	46.35	59	500.61	48.27
		IEP	2	501.50	43.13	2	424.00	115.97

**Table 207. Overall Estimates of Standard Error of Measurement**

Content Area	Grade	SEM
Reading	3	26.86
	4	16.23
	5	18.07
	6	17.39
	7	17.30
	8	16.88
	9	13.70
	10	15.05
Writing	3	14.41
	4	14.74
	5	16.62
	6	17.93
	7	21.60
	8	20.51
	9	22.51
	10	24.94
Mathematics	3	27.73
	4	18.87
	5	17.19
	6	17.59
	7	20.65
	8	17.35
	9	19.94
	10	18.70
Reading Spanish	3	16.95
	4	12.84
Writing Spanish	3	21.82
	4	16.16

**Table 208. Reading Scale Scores and Associated Standard Errors**

RD 3		RD 4		RD 5		RD 6		RD 7		RD 8		RD 9		RD 10	
SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE
150	222														
175	197	180	230												
200	172	200	210	220	196										
225	149	225	185	225	191										
250	130	250	160	250	166	260	193								
275	112	275	135	275	141	275	178								
300	96	300	111	300	117	300	153	300	138						
325	81	325	90	325	97	325	128	325	113	330	107				
350	67	350	72	350	79	350	104	350	92	350	92	350	152	370	148
375	54	375	56	375	64	375	82	375	74	375	76	375	127	375	143
400	43	400	43	400	51	400	64	400	59	400	63	400	102	400	119
425	34	425	32	425	40	425	49	425	46	425	52	425	80	425	97
450	28	450	24	450	31	450	37	450	36	450	43	450	62	450	78
475	24	475	19	475	25	475	28	475	29	475	35	475	47	475	61
500	20	500	15	500	20	500	22	500	23	500	28	500	33	500	46
525	18	525	13	525	17	525	18	525	19	525	22	525	23	525	34
550	17	550	12	550	14	550	15	550	16	550	18	550	17	550	25
575	17	575	11	575	13	575	14	575	14	575	15	575	14	575	19
600	18	600	11	600	13	600	13	600	13	600	14	600	12	600	15
625	20	625	12	625	13	625	13	625	13	625	13	625	11	625	13
650	24	650	13	650	14	650	13	650	14	650	13	650	11	650	12
675	29	675	16	675	15	675	14	675	16	675	13	675	11	675	11
700	34	700	20	700	17	700	15	700	17	700	14	700	12	700	11
725	40	725	24	725	19	725	17	725	19	725	16	725	13	725	12
750	47	750	30	750	22	750	20	750	20	750	19	750	15	750	14
775	55	775	37	775	26	775	23	775	22	775	23	775	19	775	16
795	61	800	46	800	32	800	26	800	25	800	28	800	24	800	20
		825	57	825	39	825	30	825	29	825	35	825	31	825	24
		850	70	850	47	850	36	850	35	850	42	850	39	850	30
		875	87	875	58	875	42	875	41	875	51	875	50	875	38
		900	107	900	70	900	51	900	49	900	61	900	62	900	46
		925	130	925	85	925	61	925	59	925	72	925	77	925	56
		940	145	950	103	950	74	950	71	950	85	950	94	950	68
				955	107	970	87	975	84	975	99	975	114	975	82
								980	87	990	109	995	132	999	98

**Table 209. Writing Scale Scores and Associated Standard Errors**

WR 3		WR 4		WR 5		WR 6		WR 7		WR 8		WR 9		WR 10	
SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE
150	128														
175	103	190	78												
200	80	200	71	220	58										
225	63	225	56	225	55	230	56	240	53						
250	50	250	45	250	45	250	47	250	51	250	50	260	49	270	44
275	39	275	36	275	37	275	39	275	45	275	43	275	44	275	42
300	30	300	30	300	30	300	33	300	40	300	37	300	37	300	36
325	22	325	25	325	25	325	28	325	37	325	32	325	32	325	32
350	17	350	21	350	21	350	24	350	33	350	28	350	28	350	30
375	13	375	18	375	19	375	22	375	30	375	26	375	27	375	29
400	11	400	15	400	17	400	20	400	28	400	24	400	26	400	27
425	10	425	13	425	15	425	17	425	24	425	22	425	25	425	23
450	11	450	11	450	14	450	14	450	20	450	20	450	22	450	19
475	13	475	12	475	13	475	14	475	17	475	18	475	19	475	16
500	16	500	13	500	13	500	14	500	16	500	16	500	16	500	16
525	20	525	15	525	15	525	15	525	16	525	16	525	15	525	17
550	26	550	18	550	17	550	16	550	17	550	17	550	16	550	19
575	35	575	21	575	19	575	17	575	19	575	18	575	18	575	21
600	48	600	25	600	22	600	19	600	21	600	19	600	20	600	23
625	66	625	30	625	26	625	22	625	24	625	21	625	23	625	25
650	90	650	37	650	31	650	26	650	26	650	23	650	27	650	28
675	115	675	45	675	38	675	31	675	28	675	26	675	31	675	31
680	120	700	54	700	45	700	38	700	30	700	29	700	35	700	34
		725	67	725	55	725	46	725	34	725	33	725	40	725	39
		730	69	750	67	750	55	750	40	750	39	750	45	750	44
				775	81	775	66	775	47	775	47	775	51	775	50
				780	84	800	79	800	56	800	56	800	59	800	57
						825	95	825	66	825	67	825	67	825	65
						840	105	850	77	850	81	850	77	850	74
								875	90	875	97	875	88	875	85
								890	99	900	117	900	101	900	98
										910	126	925	116	925	112
												930	119	950	128

**Table 210. Mathematics Scale Scores and Associated Standard Errors**

MA 3		MA 4		MA 5		MA 6		MA 7		MA 8		MA 9		MA 10	
SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE	SS	SE
150	88														
175	75	180	64												
200	64	200	57	220	66										
225	55	225	50	225	64	240	97								
250	48	250	43	250	54	250	89								
275	41	275	38	275	45	275	70	280	95						
300	36	300	33	300	38	300	55	300	81	310	94				
325	31	325	29	325	32	325	44	325	66	325	82	340	103		
350	27	350	25	350	26	350	35	350	54	350	65	350	95	370	100
375	24	375	21	375	22	375	29	375	45	375	52	375	78	375	96
400	22	400	19	400	19	400	24	400	37	400	42	400	64	400	77
425	21	425	16	425	17	425	20	425	32	425	34	425	53	425	61
450	21	450	15	450	15	450	17	450	28	450	29	450	43	450	49
475	22	475	14	475	14	475	16	475	25	475	26	475	36	475	40
500	23	500	14	500	13	500	14	500	22	500	22	500	30	500	33
525	25	525	15	525	13	525	14	525	19	525	19	525	24	525	27
550	28	550	16	550	13	550	13	550	17	550	16	550	20	550	21
575	31	575	18	575	14	575	13	575	15	575	13	575	16	575	17
600	35	600	21	600	15	600	13	600	14	600	12	600	13	600	14
625	40	625	25	625	17	625	14	625	13	625	11	625	11	625	11
650	47	650	32	650	21	650	16	650	14	650	12	650	10	650	10
675	54	675	39	675	26	675	20	675	15	675	13	675	10	675	10
700	64	700	49	700	32	700	24	700	16	700	15	700	11	700	11
		725	60	725	40	725	30	725	18	725	18	725	14	725	13
		750	73	750	50	750	37	750	22	750	22	750	19	750	17
		775	88	775	62	775	48	775	28	775	27	775	25	775	21
		780	91	800	76	800	61	800	34	800	35	800	34	800	28
						825	77	825	43	825	46	825	46	825	38
						830	81	850	52	850	59	850	62	850	52
								860	57	875	75	875	82	875	69
										890	86	900	105	900	91
												920	125	925	115
														950	140



**Table 211. Spanish Reading and Writing Scale Scores and Associated Standard Errors**

SP RD 3		SP RD 4		SP WR 3		SP WR 4	
SS	SE	SS	SE	SS	SE	SS	SE
				250	64		
				275	50		
300	128	300	101	300	39	300	62
325	103	325	80	325	30	325	47
350	78	350	62	350	24	350	36
375	56	375	48	375	20	375	28
400	39	400	35	400	18	400	22
425	26	425	25	425	17	425	19
450	17	450	18	450	17	450	17
475	13	475	13	475	17	475	15
500	12	500	10	500	18	500	13
525	12	525	9	525	20	525	11
550	14	550	9	550	22	550	11
575	16	575	10	575	24	575	12
600	19	600	12	600	26	600	15
625	24	625	15	625	29	625	20
650	32	650	22	650	33	650	26
675	42	675	30	675	40	675	32
700	55	700	38	700	50	700	41
725	69	725	48	725	64	725	51
740	79	750	58	750	81	750	63
		775	69			775	78
		790	76			790	88

**Table 212. Cut Scores for the 2014 TCAP Tests**

<b>Content Area</b>	<b>Grade</b>	<b>Unsatisfactory</b>	<b>Partially Proficient</b>	<b>Proficient</b>	<b>Advanced</b>
Reading	3	150-465	466-525	526-655	656-795
	4	180-516	517-571	572-670	671-940
	5	220-537	538-587	588-690	691-955
	6	260-542	543-599	600-695	696-970
	7	300-566	567-619	620-715	716-980
	8	330-577	578-631	632-723	724-990
	9	350-584	585-641	642-738	739-995
	10	370-606	607-662	663-746	747-999
Writing	3	150-392	393-464	465-532	533-680
	4	190-413	414-484	485-553	554-730
	5	220-417	418-497	498-575	576-780
	6	230-422	423-512	513-599	600-840
	7	240-429	430-538	539-628	629-890
	8	250-433	434-555	556-650	651-910
	9	260-435	436-562	563-671	672-930
	10	270-458	459-577	578-689	690-950
Mathematics	3	150-334	335-418	419-509	510-700
	4	180-382	383-454	455-537	538-780
	5	220-421	422-493	494-561	562-800
	6	240-453	454-519	520-588	589-830
	7	280-486	487-558	559-613	614-860
	8	310-520	521-576	577-627	628-890
	9	340-547	548-601	602-651	652-920
	10	370-561	562-626	627-691	692-950
Reading Spanish	3	300-481	482-512	513-575	576-740
	4	300-505	506-536	537-591	592-790
Writing Spanish	3	250-447	448-498	499-574	575-750
	4	300-495	496-531	532-595	596-790

**Table 213. Alignment Summary, Reading and Writing**

Grade	Score Reporting Category (SRC)	Number of items in the SRC	Number of PI	Number of PI Assessed	% of PI Assessed
3	1	40	7	5	71%
	2	21	5	2	40%
	3	32	5	5	100%
4	1	29	8	5	63%
	2	21	5	4	80%
	3	32	5	5	100%
	4	13	5	4	80%
	5	15	6	4	67%
	6	12	4	4	100%
5	1	24	7	6	86%
	2	21	7	6	86%
	3	32	5	5	100%
	4	17	5	4	80%
	5	17	7	6	86%
	6	11	4	3	75%
6	1	28	7	5	71%
	2	21	7	6	86%
	3	32	5	5	100%
	4	12	5	5	100%
	5	18	7	6	86%
	6	12	4	3	75%
7	1	23	9	5	56%
	2	21	8	6	75%
	3	32	6	5	83%
	4	15	5	3	60%
	5	19	7	4	57%
	6	13	4	4	100%
8	1	23	7	5	71%
	2	21	7	5	71%
	3	32	6	5	83%
	4	15	5	5	100%
	5	16	6	6	100%
	6	15	4	4	100%
9	1	23	7	7	100%
	2	20	8	5	63%
	3	31	6	5	83%
	4	15	5	4	80%
	5	17	6	5	83%
	6	14	5	4	80%

**Table 213. Alignment Summary, Reading and Writing (cont'd)**

Grade	Score Reporting Category (SRC)	Number of items in the SRC	Number of PI	Number of PI Assessed	% of PI Assessed
10	1	22	7	6	86%
	2	21	8	5	63%
	3	31	5	5	100%
	4	17	6	3	50%
	5	15	6	5	83%
	6	14	4	4	100%

**Table 214. Alignment Summary, Mathematics**

Grade	Score Reporting Category (SRC)	Number of items in the SRC	Number of PI	Number of PI Assessed	% of PI Assessed
3	1	8	13	8	62%
	2/3	11	10	6	60%
	4/5	14	15	10	67%
	6	7	9	7	78%
4	1	14	11	10	91%
	2	9	6	5	83%
	3	11	6	3	50%
	4/5	21	15	12	80%
	6	14	10	7	70%
5	1	16	13	12	92%
	2	12	7	6	86%
	3	11	15	4	27%
	4/5	14	22	9	41%
	6	16	12	7	58%
6	1	12	8	7	88%
	2	10	6	5	83%
	3	11	9	6	67%
	4/5	16	17	13	76%
	6	11	8	5	63%
7	1/6	19	18	13	72%
	2	11	5	4	80%
	3	12	9	9	100%
	4/5	17	14	10	71%
8	1/6	15	10	8	80%
	2	14	6	6	100%
	3	12	9	8	89%
	4/5	17	11	10	91%
9	1/6	13	9	8	89%
	2	17	12	11	92%
	3	15	14	10	71%
	4/5	14	9	7	78%
10	1/6	14	10	8	80%
	2	18	14	12	86%
	3	14	22	10	45%
	4/5	14	17	11	65%

**Table 215. Alignment Summary, Spanish Reading and Writing**

<b>Grade</b>	<b>Score Reporting Category (SRC)</b>	<b>Number of items in the SRC</b>	<b>Number of PI</b>	<b>Number of PI Assessed</b>	<b>% of PI Assessed</b>
3	1	40	7	5	71%
	2	21	4	1	25%
	3	32	5	5	100%
4	1	31	8	6	75%
	2	19	5	4	80%
	3	34	5	4	80%
	4	14	5	5	100%
	5	13	6	3	50%
	6	12	4	3	75%

**Table 216. Items Flagged for DIF by Ethnicity Focal Group**

Content Area	Grade	Item #	Item Type	Ethnicity Focal Group <sup>1</sup>																		
				Am. Indian/ AK Native			Asian			Black			Hispanic			Hawaiian/ Pacific Islander			Two or More Races			
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	
R E A D I N G	3	25	MC													*	141	-0.104				
	3	40	CR				+	2047	0.100													
	4	17	MC													+	147	0.117				
	4	42	CR													+	147	0.192				
	4	109	MC													+	147	0.117				
	5	12	CR													+	162	0.165				
	5	102	MC													+	162	0.165				
	6	6	CR				+	2095	0.120	+	2881	0.116										
	6	12	CR				+	2095	0.193													
	6	19	CR				+	2095	0.116													
	6	21	CR				+	2095	0.122													
	6	44	MC				*	2095	-0.107													
	6	49	CR				+	2095	0.166													
	6	100	MC				+	2095	0.120	+	2881	0.116										
	6	106	MC				+	2095	0.193													
	6	113	MC				+	2095	0.116													
	6	115	MC				+	2095	0.122													
	7	5	CR				+	1970	0.107													
	7	7	CR							+	2898	0.107										
	7	19	MC													*	136	-0.143				
7	24	CR				+	1970	0.130														
7	29	MC													+	136	0.103					
7	47	CR				+	1970	0.122														
7	97	MC				+	1970	0.107														
7	99	MC							+	2898	0.107											
7	111	MC													*	136	-0.143					
8	26	CR				+	1964	0.123														
8	30	CR				+	1964	0.130														
8	42	CR				+	1964	0.109														

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 216. Items Flagged for DIF by Ethnicity Focal Group (cont'd)**

Content Area	Grade	Item #	Item Type	Ethnicity Focal Group <sup>1</sup>																	
				Am. Indian/ AK Native			Asian			Black			Hispanic			Hawaiian/ Pacific Islander			Two or More Races		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
READING	8	47	MC													*	133	-0.114			
	8	48	CR				+	1964	0.120												
	9	25	MC													*	166	-0.100			
	9	26	CR				+	1861	0.218				+	19662	0.114	+	166	0.163			
	9	40	CR				+	1861	0.159												
	9	44	CR				+	1861	0.171												
	10	9	CR													+	146	0.152			
	10	13	CR				+	1905	0.123				+	18157	0.111						
	10	16	MC													*	146	-0.109			
	10	27	CR							*	2900	-0.104									
	10	31	CR				+	1905	0.106				+	18157	0.106						
	10	35	CR				+	1905	0.120												
	10	51	CR				+	1905	0.163												
	10	99	MC													+	146	0.152			
	10	103	MC				+	1905	0.123				+	18157	0.111						
	10	106	MC													*	146	-0.109			

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring



**Table 216. Items Flagged for DIF by Ethnicity Focal Group (cont'd)**

Content Area	Grade	Item #	Item Type	Ethnicity Focal Group <sup>1</sup>																	
				Am. Indian/ AK Native			Asian			Black			Hispanic			Hawaiian/ Pacific Islander			Two or More Races		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
W R I T I N G	3	4	MC				*	2034	-0.107												
	3	15	MC				*	2034	-0.111												
	4	2F	CR																		
	4	76	MC																		
	4	79	MC																		
	4	95	CR																		
	6	59	MC																		
	8	3A	CR																		
	8	98	CR																		
	9	2E	CR																		
	9	66	MC																		
	9	72	CR																		
	9	94	CR																		
	10	3A	CR																		
	10	3B	CR																		
	10	62	MC																		
10	67	MC																			
10	71	CR																			
10	72	MC																			
10	73	MC																			
10	93	CR																			

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 216. Items Flagged for DIF by Ethnicity Focal Group (cont'd)**

Content Area	Grade	Item #	Item Type	Ethnicity Focal Group <sup>1</sup>																	
				Am. Indian/ AK Native			Asian			Black			Hispanic			Hawaiian/ Pacific Islander			Two or More Races		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
M A T H E M A T I C S	5	46	CR						*	2904	-0.100										
	6	11	CR						+	2873	0.114										
	6	23	CR											*	122	-0.163					
	6	44	MC											*	122	-0.101					
	6	52	CR						*	2873	-0.120										
	7	3	CR				+	1973	0.114												
	8	20	CR	*	508	-0.133															
	8	40	CR											+	132	0.159					
	8	60	CR				+	1963	0.124												
	9	20	CR				*	1865	-0.127												
	9	44	CR				*	1865	-0.126												
	9	52	MC											*	166	-0.114					
	9	60	CR	*	484	-0.111	+	1865	0.210	+	3119	0.126									
	10	2	CR				*	1902	-0.142												
10	32	CR							+	2903	0.122										
10	36	CR				*	1902	-0.132													
10	44	MC											*	145	-0.118						

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 217. Items Flagged for DIF by Gender Focal Group**

Content Area	Grade	Item #	Item Type	Gender Focal Group <sup>1</sup>					
				Female			Male		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	6	12	CR				*	32365	-0.100
	6	106	MC				*	32365	-0.100
	8	30	CR				*	31712	-0.102
	9	26	CR	+	30183	0.116	*	31457	-0.111
	10	13	CR	+	29020	0.120	*	29960	-0.112
	10	51	CR				*	29960	-0.100
	10	103	MC	+	29020	0.120	*	29960	-0.112
Writing	4	77	CR				*	32627	-0.101
	5	74	CR				*	32738	-0.102
	7	70	CR				*	31964	-0.105
	7	95	CR				*	31964	-0.102
	8	75	CR	+	30214	0.114	*	31696	-0.110
	8	98	CR	+	30214	0.117	*	31696	-0.116
	9	72	CR	+	30176	0.193	*	31481	-0.191
	10	71	CR	+	29018	0.175	*	29988	-0.180
	10	93	CR				*	29988	-0.112
Mathematics	10	28	CR				*	30047	-0.105

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 218. Items Flagged for DIF by Accommodations Focal Group**

Content Area	Grade	Item #	Item Type	Accommodations Focal Group <sup>1</sup>														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	3	13	CR												*	153	-0.189	
	3	27	CR							+	50	0.225						
	4	8	CR												*	182	-0.154	
	4	19	CR							+	52	0.176						
	4	35	CR												*	182	-0.221	
	4	42	CR												*	182	-0.223	
	4	45	CR												*	182	-0.149	
	4	51	CR												*	182	-0.112	
	4	100	MC												*	182	-0.154	
	4	111	MC							+	52	0.176						
	5	17	CR												*	216	-0.196	
	5	32	MC												+	216	0.104	
	5	33	CR												*	216	-0.133	
	5	37	MC												+	216	0.165	
	5	40	CR												*	216	-0.140	
	5	107	MC												*	216	-0.196	
	6	6	CR												*	203	-0.168	
	6	12	CR												*	203	-0.270	
	6	19	CR												*	203	-0.132	
	6	21	CR												*	203	-0.133	
	6	47	MC												+	203	0.103	
	6	100	MC												*	203	-0.168	
	6	106	MC												*	203	-0.270	
6	113	MC												*	203	-0.132		
6	115	MC												*	203	-0.133		
7	5	CR												*	233	-0.221		
7	7	CR												*	233	-0.173		

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

**Table 218. Items Flagged for DIF by Accommodations Focal Group (cont'd)**

Content Area	Grade	Item #	Item Type	Accommodations Focal Group <sup>1</sup>														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	7	33	CR													*	233	-0.146
	7	47	CR													*	233	-0.169
	7	97	MC													*	233	-0.221
	7	99	MC													*	233	-0.173
	8	5	CR													*	216	-0.140
	8	8	CR													*	216	-0.198
	8	19	CR													*	216	-0.213
	8	26	CR	+	5504	0.141												
	8	38	MC							*	50	-0.153						
	8	44	CR													*	216	-0.111
	8	48	CR													*	216	-0.126
	8	54	CR										+	905	0.120			
	8	100	CR													*	216	-0.140
	8	103	MC													*	216	-0.198
	8	114	MC													*	216	-0.213
	9	21	MC													+	104	0.109
	9	26	CR	+	3388	0.133												
	9	112	CR													+	104	0.109
	10	6	MC													+	112	0.119
	10	13	CR													*	112	-0.239
10	27	CR	*	3090	-0.127													
10	30	CR													*	112	-0.274	
10	31	CR	+	3090	0.129													
10	33	MC													*	112	-0.122	
10	45	MC													+	112	0.133	
10	46	MC													+	112	0.163	
10	47	CR	+	3090	0.123													

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

**Table 218. Items Flagged for DIF by Accommodations Focal Group (cont'd)**

Content Area	Grade	Item #	Item Type	Accommodations Focal Group <sup>1</sup>															
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other <sup>2</sup>			
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	
Reading	10	96	MC														+	112	0.119
	10	103	MC														*	112	-0.239
Writing	3	3	MC				+	7340	0.109										
	3	10A	CR														*	161	-0.136
	3	12	MC				+	7340	0.149										
	3	21	MC				+	7340	0.106										
	3	33	MC							*	51	-0.132							
	4	3B	CR				*	6789	-0.124										
	4	77	CR														*	210	-0.119
	4	80	MC				+	6789	0.127										
	4	81	MC				+	6789	0.119										
	4	95	CR				+	6789	0.114								*	210	-0.138
	5	2F	CR				*	6181	-0.130										
	5	85	MC														+	329	0.104
	5	89	MC				+	6181	0.127										
	5	91	MC				+	6181	0.109										
	5	92	MC				+	6181	0.131										
	6	2B	CR				*	4345	-0.109										
	6	3B	CR														*	439	-0.110
	6	82	MC				+	4345	0.102										
	6	95	MC				+	4345	0.109										
	6	97	CR				+	4345	0.144										
7	2A	CR				*	3335	-0.123									*	458	-0.105
7	2D	CR															+	458	0.118
7	2E	CR															*	458	-0.143
7	2F	CR				*	3335	-0.105											
7	3A	CR				+	3335	0.103									+	458	0.133

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

**Table 218. Items Flagged for DIF by Accommodations Focal Group (cont'd)**

Content Area	Grade	Item #	Item Type	Accommodations Focal Group <sup>1</sup>														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	7	79	MC				+		3335	0.116								
	7	93	MC				+		3335	0.103								
	7	95	CR	+	3481	0.109	+		3335	0.114								
	8	2A	CR				*		2728	-0.121					*	484	-0.162	
	8	2D	CR				*		2728	-0.100								
	8	75	CR	+	3521	0.110												
	8	98	CR	+	3521	0.160	+		2728	0.137								
	9	3B	CR				*		1688	-0.104								
	9	54	MC				*		1688	-0.109								
	9	56	MC												*	579	-0.164	
	9	57	MC												*	579	-0.165	
	9	72	CR	+	2118	0.103												
	9	93	MC				+		1688	0.110								
	9	94	CR	+	2118	0.159	+		1688	0.186			+	204	0.179	+	579	0.186
	10	2A	CR				*		1056	-0.129					*	503	-0.107	
	10	2C	CR				*		1056	-0.111								
	10	2F	CR				*		1056	-0.137					*	503	-0.270	
	10	3A	CR				*		1056	-0.101								
	10	3B	CR				*		1056	-0.150								
	10	52	MC										*	158	-0.124			
10	71	CR	+	2074	0.102										+	503	0.114	
10	91	MC				+		1056	0.113									
10	93	CR													+	503	0.154	

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2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.

**Table 218. Items Flagged for DIF by Accommodations Focal Group (cont'd)**

Content Area	Grade	Item #	Item Type	Accommodations Focal Group <sup>1</sup>														
				Extended Timing			Oral Script			Scribe			Teacher Read Directions			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	3	8	MC													*	802	-0.114
	4	23	CR													+	344	0.115
	4	35	CR				+	7059	0.105									
	4	46	CR				*	7059	-0.185									
	4	69	CR	+	2630	0.122												
	5	20	CR										+	436	0.119			
	5	46	CR				+	6551	0.138									
	5	57	CR													+	304	0.159
	6	46	CR				*	4370	-0.113				*	521	-0.134			
	6	57	CR													*	342	-0.142
	7	3	CR													+	357	0.170
	7	20	CR													+	357	0.112
	7	26	CR				*	3383	-0.182							*	357	-0.157
	7	35	CR													*	357	-0.138
	7	46	CR				+	3383	0.213							+	357	0.139
	8	7	CR													*	365	-0.175
	8	10	CR				*	2773	-0.109							*	365	-0.156
	8	27	CR				+	2773	0.168							+	365	0.128
	8	53	CR										+	401	0.104			
	8	60	CR										+	401	0.100			
9	20	CR													*	549	-0.148	
9	49	MC				*	1718	-0.105										
10	7	MC				*	1114	-0.122				*	194	-0.120				
10	18	MC													*	552	-0.133	

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes use of manipulatives, signing, assistive comm. device, appr. nonstandard accomm., translated oral script, word-to-word dictionary, Braille version, and large-print version.



**Table 219. Items Flagged for DIF by Primary Disability State**

Content Area	Grade	Item #	Item Type	Primary Disability State Focal Group <sup>1</sup>															
				Emotional			Specific Learning Disability			Physical			Speech/Language			Other <sup>2</sup>			
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	
Reading	3	3	MC	+	376	0.104													
	3	4	CR											*	486	-0.119			
	3	13	CR	*	376	-0.273				*	608	-0.205					*	486	-0.190
	3	15	MC	+	376	0.104													
	3	16	CR	*	376	-0.167											*	486	-0.116
	3	20	CR	*	376	-0.177													
	3	23	CR	*	376	-0.122				*	608	-0.138					*	486	-0.116
	3	32	CR	*	376	-0.213				*	608	-0.140					*	486	-0.165
	4	5	MC	+	409	0.110											+	480	0.104
	4	8	CR	*	409	-0.180				*	710	-0.125					*	480	-0.147
	4	30	CR	*	409	-0.160				*	710	-0.109					*	480	-0.101
	4	35	CR	*	409	-0.270				*	710	-0.226					*	480	-0.262
	4	42	CR	*	409	-0.205											*	480	-0.184
	4	45	CR	*	409	-0.110				*	710	-0.116					*	480	-0.138
	4	49	CR	*	409	-0.181				*	710	-0.120							
	4	97	MC	+	409	0.110											+	480	0.104
	4	100	MC	*	409	-0.180				*	710	-0.125					*	480	-0.147
	5	5	CR	*	484	-0.104				*	735	-0.104					*	565	-0.104
	5	12	CR	*	484	-0.108											*	565	-0.105
	5	17	CR	*	484	-0.213				*	735	-0.212					*	565	-0.223
	5	29	MC	+	484	0.102													
	5	33	CR	*	484	-0.104				*	735	-0.106							
	5	95	MC	*	484	-0.104				*	735	-0.104					*	565	-0.104
5	102	MC	*	484	-0.108											*	565	-0.105	
5	107	MC	*	484	-0.213				*	735	-0.212					*	565	-0.223	
6	6	CR	*	488	-0.240				*	701	-0.163					*	524	-0.182	
6	12	CR	*	488	-0.257				*	701	-0.138					*	524	-0.157	

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.



**Table 219. Items Flagged for DIF by Primary Disability State (cont'd)**

Content Area	Grade	Item #	Item Type	Primary Disability State Focal Group <sup>1</sup>														
				Emotional			Specific Learning Disability			Physical			Speech/Language			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	8	103	MC	*	523	-0.162				*	685	-0.133				*	458	-0.125
	8	114	MC	*	523	-0.166				*	685	-0.114						
	9	5	CR	*	513	-0.113				*	671	-0.105				*	425	-0.119
	9	8	CR	*	513	-0.190				*	671	-0.166				*	425	-0.112
	9	11	CR	*	513	-0.110										*	425	-0.101
	9	21	MC	+	513	0.103												
	9	24	MC	+	513	0.113												
	9	26	CR	*	513	-0.233				*	671	-0.190						
	9	37	CR	*	513	-0.150												
	9	40	CR	*	513	-0.113				*	671	-0.115						
	9	96	CR	*	513	-0.113				*	671	-0.105				*	425	-0.119
	9	99	CR	*	513	-0.190				*	671	-0.166				*	425	-0.112
	9	102	MC	*	513	-0.110										*	425	-0.101
	9	112	CR	+	513	0.103												
	9	115	CR	+	513	0.113												
	10	11	CR	*	479	-0.107										*	461	-0.129
	10	12	MC	+	479	0.153										+	461	0.115
	10	13	CR	*	479	-0.288				*	694	-0.132						
	10	17	MC	+	479	0.120												
	10	27	CR	*	479	-0.126		*	2964	-0.108								
	10	30	CR	*	479	-0.237												
	10	31	CR	*	479	-0.178												
	10	35	CR	*	479	-0.117												
10	47	CR	*	479	-0.104								+	124	0.189			
10	51	CR	*	479	-0.220													
10	101	MC	*	479	-0.107										*	461	-0.129	
10	102	MC	+	479	0.153										+	461	0.115	

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

**Table 219. Items Flagged for DIF by Primary Disability State (cont'd)**

Content Area	Grade	Item #	Item Type	Primary Disability State Focal Group <sup>1</sup>														
				Emotional			Specific Learning Disability			Physical			Speech/Language			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	10	103	MC	*	479	-0.288				*	694	-0.132						
	10	107	MC	+	479	0.120												
Writing	3	3	MC				+	2838	0.108									
	3	10A	CR	*	384	-0.154								*	489	-0.139		
	3	10B	CR	*	384	-0.104												
	3	12	MC				+	2838	0.145									
	3	28A	CR	*	384	-0.123												
	3	28C	CR	*	384	-0.103												
	3	36	MC												+	489	0.112	
	4	2B	CR				*	3419	-0.109									
	4	3A	CR	*	407	-0.200				*	712	-0.119			*	485	-0.162	
	4	3B	CR	*	407	-0.292		*	3419	-0.128	*	712	-0.180		*	485	-0.175	
	4	3C	CR	*	407	-0.147		*	3419	-0.117	*	712	-0.101					
	4	58	MC	+	407	0.107					+	712	0.115					
	4	76	MC	+	407	0.119												
	4	77	CR	*	407	-0.309					*	712	-0.242		*	485	-0.281	
	4	79	MC	+	407	0.123												
	4	80	MC				+	3419	0.104	+	712	0.110						
	4	81	MC				+	3419	0.123	+	712	0.103						
	4	95	CR	*	407	-0.215		+	3419	0.105					*	485	-0.135	
	5	2F	CR					*	3887	-0.137								
	5	3A	CR	*	485	-0.104									*	568	-0.123	
5	3B	CR	*	485	-0.159									*	568	-0.161		
5	74	CR	*	485	-0.320					*	739	-0.170		*	568	-0.187		
5	89	MC												+	568	0.116		
5	90	MC	+	485	0.119													
5	92	MC				+	3887	0.120										

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

**Table 219. Items Flagged for DIF by Primary Disability State (cont'd)**

Content Area	Grade	Item #	Item Type	Primary Disability State Focal Group <sup>1</sup>														
				Emotional			Specific Learning Disability			Physical			Speech/Language			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	5	93	CR	*	485	-0.124												
	6	2B	CR				*	3965	-0.103									
	6	2C	CR				*	3965	-0.101									
	6	3A	CR	*	485	-0.155										*	525	-0.245
	6	3B	CR	*	485	-0.181				*	703	-0.138				*	525	-0.246
	6	73	CR	*	485	-0.320				*	703	-0.116				*	525	-0.244
	6	74	MC	+	485	0.107												
	6	97	CR	*	485	-0.206	+	3965	0.161							*	525	-0.181
	7	2A	CR				*	3810	-0.129									
	7	2D	CR													+	489	0.117
	7	3A	CR	*	506	-0.133										*	489	-0.166
	7	3B	CR	*	506	-0.184				*	718	-0.150				*	489	-0.208
	7	3C	CR													*	489	-0.104
	7	70	CR	*	506	-0.220				*	718	-0.131				*	489	-0.186
	7	95	CR	*	506	-0.192	+	3810	0.134							*	489	-0.100
	8	3A	CR	*	517	-0.183				*	686	-0.127				*	462	-0.186
	8	3B	CR	*	517	-0.199				*	686	-0.144				*	462	-0.165
	8	75	CR	*	517	-0.276	+	3442	0.107							*	462	-0.133
	8	98	CR	*	517	-0.190	+	3442	0.180	*	686	-0.112				*	462	-0.106
	9	2C	CR											*	208	-0.107		
9	2E	CR											*	208	-0.108	*	420	-0.105
9	3A	CR	*	510	-0.212				*	665	-0.125		*	208	-0.133	*	420	-0.244
9	3B	CR	*	510	-0.241				*	665	-0.138				*	420	-0.224	
9	54	MC					*	3346	-0.109									
9	56	MC													+	420	0.107	
9	72	CR	*	510	-0.339	+	3346	0.111	*	665	-0.221				*	420	-0.216	
9	88	MC											+	208	0.112			

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

**Table 219. Items Flagged for DIF by Primary Disability State (cont'd)**

Content Area	Grade	Item #	Item Type	Primary Disability State Focal Group <sup>1</sup>															
				Emotional			Specific Learning Disability			Physical			Speech/Language			Other <sup>2</sup>			
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	
Writing	9	94	CR	*	510	-0.275	+	3346	0.210										
	10	2A	CR				*	2966	-0.117										
	10	3A	CR	*	477	-0.258				*	694	-0.144				*	465	-0.257	
	10	3B	CR	*	477	-0.278				*	694	-0.171				*	465	-0.247	
	10	65	MC										*	123	-0.102				
	10	71	CR	*	477	-0.367	+	2966	0.126	*	694	-0.192				*	465	-0.307	
	10	85	MC										+	123	0.118				
	10	86	MC										+	123	0.101				
	10	93	CR	*	477	-0.312	+	2966	0.133	*	694	-0.120				*	465	-0.141	
Mathematics	3	20	CR	*	384	-0.114											*	493	-0.107
	3	26	CR																
	4	3	MC	*	405	-0.115													
	4	9	MC	*	405	-0.120											*	495	-0.107
	4	16	CR																
	4	31	CR	+	405	0.162													
	4	35	CR				+	3427	0.110										
	4	46	CR				*	3427	-0.237										
	4	49	MC	+	405	0.104													
	4	51	CR	+	405	0.108													
	5	46	CR				+	3907	0.168				*	963	-0.110				
	5	61	MC	*	486	-0.110													
	6	8	CR										+	603	0.119				
	6	23	CR													*	526	-0.109	
	6	32	CR	*	490	-0.100													
6	46	CR				*	3968	-0.109	*	709	-0.102	*	603	-0.148	*	526	-0.169		
6	57	CR	*	490	-0.149										*	526	-0.130		
7	4	MC													+	480	0.102		

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

**Table 219. Items Flagged for DIF by Primary Disability State (cont'd)**

Content Area	Grade	Item #	Item Type	Primary Disability State Focal Group <sup>1</sup>														
				Emotional			Specific Learning Disability			Physical			Speech/Language			Other <sup>2</sup>		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	7	26	CR				*	3814	-0.127	*	721	-0.136				*	480	-0.141
	7	40	CR													*	480	-0.143
	7	46	CR				+	3814	0.137	+	721	0.104				+	480	0.123
	7	54	CR	*	510	-0.109												
	8	7	CR	*	527	-0.129				*	691	-0.103				*	459	-0.139
	8	10	CR	*	527	-0.125												
	8	27	CR				+	3448	0.103	+	691	0.131						
	9	20	CR	*	516	-0.128										*	425	-0.127
	9	57	MC	+	516	0.118												
	10	6	MC										+	122	0.102			
	10	7	MC				*	2980	-0.126				*	122	-0.112			
	10	20	CR				+	2980	0.109							*	469	-0.127
	10	40	CR										+	122	0.134			
10	60	CR	*	487	-0.120													

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

2. Other includes limited intellectual capacity, hearing disability, visual disability, deaf-blind, multiple disabilities, autism, and traumatic brain injury.

**Table 220. Items Flagged for DIF by Enrollment Focal Group**

Content Area	Grade	Item #	Item Type	Enrollment Focal Group <sup>1</sup>								
				Cont. Enroll. 1 Year in School			Cont. Enroll. 1 Year in District			Cont. Enroll. 3 Years in Colorado		
				No			No			No		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	7	3A	CR				*	8399	-0.118			
	9	72	CR							*	11040	-0.110
	10	71	CR							*	9903	-0.129
	10	93	CR				*	7674	-0.109	*	9903	-0.115

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring



**Table 221. Items Flagged for DIF by Language Proficiency Focal Group**

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>														
				Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	3	13	CR	+	324	0.138												
	3	16	CR	+	324	0.227	+	11435	0.115				+	9230	0.141			
	3	20	CR										+	9230	0.113			
	3	23	CR													+	1276	0.102
	3	27	CR	+	324	0.118												
	3	32	CR				+	11435	0.115				+	9230	0.138			
	3	37	MC										*	9230	-0.106			
	3	40	CR	+	324	0.183												
	4	7	MC	*	561	-0.124												
	4	8	CR	+	561	0.107								+	8551	0.100		
	4	12	MC	*	561	-0.135												
	4	28	MC	*	561	-0.122								*	8551	-0.102		
	4	30	CR	+	561	0.195												
	4	35	CR	+	561	0.224		+	12219	0.120	+	3223	0.111	+	8551	0.138		
	4	42	CR	+	561	0.150		+	12219	0.105	+	3223	0.112	+	8551	0.119		
	4	45	CR								+	3223	0.107					
	4	99	MC	*	561	-0.124												
	4	100	MC	+	561	0.107								+	8551	0.100		
	4	104	MC	*	561	-0.135												
	5	5	CR	+	507	0.184					+	4091	0.112					
	5	12	CR								+	4091	0.103					
	5	17	CR											+	7826	0.101		
	5	20	MC	*	507	-0.118												
5	22	MC	*	507	-0.121													
5	33	CR	+	507	0.146		+	12350	0.103				+	7826	0.118			
5	39	CR	+	507	0.125					+	4091	0.116						
5	47	CR	+	507	0.112													
5	95	MC	+	507	0.184					+	4091	0.112						
5	102	MC								+	4091	0.103						
5	107	MC											+	7826	0.101			

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**Table 221. Items Flagged for DIF by Language Proficiency Focal Group (cont'd)**

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>														
				Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	5	110	MC	*	507	-0.118												
	5	112	MC	*	507	-0.121												
	6	6	CR				+	12105	0.143	+	4892	0.172	+	6691	0.141			
	6	7	MC	*	296	-0.160												
	6	12	CR	+	296	0.287	+	12105	0.153	+	4892	0.162	+	6691	0.144	+	815	0.224
	6	19	CR							+	4892	0.142						
	6	32	MC	*	296	-0.129				*	4892	-0.104						
	6	45	CR	+	296	0.144												
	6	51	MC	*	296	-0.130				*	4892	-0.144						
	6	100	MC				+	12105	0.143	+	4892	0.172	+	6691	0.141			
	6	101	MC	*	296	-0.160												
	6	106	MC	+	296	0.287	+	12105	0.153	+	4892	0.162	+	6691	0.144	+	815	0.224
	6	113	MC							+	4892	0.142						
	7	5	CR							+	4861	0.117						
	7	7	CR				+	11723	0.104				+	6319	0.140			
	7	9	MC													*	801	-0.120
	7	12	CR	+	266	0.102												
	7	24	CR	+	266	0.114	+	11723	0.110	+	4861	0.149	+	6319	0.104			
	7	33	CR													*	801	-0.121
	7	35	CR	*	266	-0.100												
	7	47	CR				+	11723	0.128	+	4861	0.117	+	6319	0.148			
	7	97	MC							+	4861	0.117						
	7	99	MC				+	11723	0.104				+	6319	0.140			
	7	101	MC													*	801	-0.120
	7	104	CR	+	266	0.102												
	8	5	CR	+	232	0.218	+	11169	0.117	+	5180	0.104	+	5338	0.141			
	8	8	CR	+	232	0.141	+	11169	0.110				+	5338	0.120	+	880	0.241
	8	12	MC													*	880	-0.107
8	15	MC										*	5338	-0.112				
8	19	CR	+	232	0.107							+	5338	0.124	+	880	0.102	

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**Table 221. Items Flagged for DIF by Language Proficiency Focal Group (cont'd)**

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>														
				Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	8	20	CR				+	11169	0.102				+	5338	0.117	+	880	0.152
	8	26	CR										+	5338	0.107	+	880	0.157
	8	27	MC	*	232	-0.229	*	11169	-0.140	*	5180	-0.160	*	5338	-0.133			
	8	31	MC				*	11169	-0.100				*	5338	-0.120			
	8	32	MC	+	232	0.125												
	8	42	CR							+	5180	0.141						
	8	48	CR	+	232	0.257	+	11169	0.146	+	5180	0.163	+	5338	0.160			
	8	49	MC													*	880	-0.131
	8	54	CR													+	880	0.142
	8	100	CR	+	232	0.218	+	11169	0.117	+	5180	0.104	+	5338	0.141			
	8	103	MC	+	232	0.141	+	11169	0.110				+	5338	0.120	+	880	0.241
	8	107	MC													*	880	-0.107
	8	110	CR										*	5338	-0.112			
	8	114	MC	+	232	0.107							+	5338	0.124	+	880	0.102
	8	115	MC				+	11169	0.102				+	5338	0.117	+	880	0.152
	9	6	MC													*	830	-0.133
	9	8	CR				+	10447	0.113				+	4466	0.136	+	830	0.163
	9	17	MC	*	216	-0.113				*	5363	-0.105						
	9	22	CR							+	5363	0.114						
	9	26	CR	+	216	0.234	+	10447	0.231	+	5363	0.200	+	4466	0.255	+	830	0.310
	9	34	MC	*	216	-0.118												
	9	40	CR				+	10447	0.151	+	5363	0.154	+	4466	0.138	+	830	0.198
	9	44	CR				+	10447	0.124	+	5363	0.124	+	4466	0.122	+	830	0.106
	9	51	MC	*	216	-0.128												
	9	97	MC													*	830	-0.133
	9	99	CR				+	10447	0.113				+	4466	0.136	+	830	0.163
	9	108	MC	*	216	-0.113				*	5363	-0.105						
	9	113	MC							+	5363	0.114						
10	4	MC	+	188	0.132													
10	5	MC				*	9816	-0.101	*	6035	-0.111							

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 221. Items Flagged for DIF by Language Proficiency Focal Group (cont'd)**

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>															
				Bilingual			ESL			FEP			LEP			NEP			
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	
Reading	10	11	CR																
	10	13	CR				+	9816	0.181	+	6035	0.191	+	3384	0.201				
	10	17	MC	*	188	-0.141	*	9816	-0.127	*	6035	-0.134	*	3384	-0.126				
	10	27	CR										*	3384	-0.143	*	583	-0.322	
	10	30	CR				+	9816	0.117	+	6035	0.159				*	583	-0.177	
	10	31	CR	+	188	0.245	+	9816	0.193	+	6035	0.183	+	3384	0.194	+	583	0.310	
	10	35	CR													+	583	0.103	
	10	40	MC	*	188	-0.117													
	10	46	MC	*	188	-0.149	*	9816	-0.131	*	6035	-0.167							
	10	47	CR										+	3384	0.135				
	10	51	CR	+	188	0.169	+	9816	0.105	+	6035	0.148							
	10	94	MC	+	188	0.132													
	10	95	MC				*	9816	-0.101	*	6035	-0.111							
	10	101	MC							+	6035	0.136							
10	103	MC				+	9816	0.181	+	6035	0.191	+	3384	0.201					
10	107	MC	*	188	-0.141	*	9816	-0.127	*	6035	-0.134	*	3384	-0.126					
Writing	3	1C	CR	*	323	-0.139													
	3	3	MC	*	323	-0.106													
	3	10D	CR	+	323	0.127													
	3	34	MC	*	323	-0.163	*	11454	-0.104				*	9244	-0.118				
	3	39C	CR	+	323	0.105													
	4	2B	CR													*	891	-0.115	
	4	58	MC	*	560	-0.105													
	4	59	MC	*	560	-0.128													
	4	75	MC	*	560	-0.107										*	891	-0.135	
	4	77	CR	+	560	0.141	+	12202	0.107				+	8532	0.124	*	891	-0.120	
	4	87	MC													*	891	-0.120	
	4	95	CR	+	560	0.214							+	8532	0.105				
	5	2E	CR													*	922	-0.126	
5	2F	CR													*	922	-0.126		

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**Table 221. Items Flagged for DIF by Language Proficiency Focal Group (cont'd)**

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>																
				Bilingual			ESL			FEP			LEP			NEP				
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd		
Writing	5	3A	CR															+	922	0.153
	5	66	MC															*	922	-0.126
	5	74	CR	+	506	0.181	+	12334	0.124					+	7821	0.170				
	5	93	CR	+	506	0.196								+	7821	0.105				
	6	2B	CR															*	817	-0.166
	6	2D	CR															+	817	0.110
	6	3B	CR															*	817	-0.148
	6	59	MC							*	4895	-0.166								
	6	60	MC	*	297	-0.101														
	6	65	MC	*	297	-0.117														
	6	97	CR											+	6692	0.105				
	7	2A	CR															*	801	-0.101
	7	2C	CR	*	266	-0.105	*	11726	-0.100	*	4862	-0.123								
	7	2D	CR															+	801	0.173
	7	2E	CR															*	801	-0.180
	7	3A	CR							+	11726	0.135			+	6321	0.191			
	7	3B	CR	+	266	0.125														
	7	54	MC															*	801	-0.108
	7	64	MC	*	266	-0.162								*	6321	-0.105				
	7	70	CR	+	266	0.109	+	11726	0.118					+	6321	0.154				
	7	74	MC	*	266	-0.100														
	7	85	MC	*	266	-0.194	*	11726	-0.137					*	6321	-0.180				
	7	87	MC															+	801	0.113
	7	92	MC	*	266	-0.181	*	11726	-0.155					*	6321	-0.207		*	801	-0.181
	7	95	CR											+	6321	0.111	+	801	0.135	
	7	116	CR	*	266	-0.162								*	6321	-0.105				
	8	2A	CR															*	874	-0.256
	8	2D	CR															*	874	-0.122
8	2E	CR	+	232	0.139															
8	3A	CR											+	5343	0.129					

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 221. Items Flagged for DIF by Language Proficiency Focal Group (cont'd)**

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>																	
				Bilingual			ESL			FEP			LEP			NEP					
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd			
Writing	8	3B	CR																		
	8	57	MC																		
	8	64	MC	*	232	-0.108															
	8	65	MC	*	232	-0.128															
	8	66	MC	+	232	0.102															
	8	68	MC	*	232	-0.123															
	8	75	CR				+	11174	0.126					+	5343	0.176					
	8	81	MC	+	232	0.108															
	8	84	MC	*	232	-0.151	*	11174	-0.118	*	5186	-0.108	*	5343	-0.149			+	874	0.112	
	8	91	MC	*	232	-0.148	*	11174	-0.102				*	5343	-0.122						
	8	95	MC																+	874	0.119
	8	98	CR																+	874	0.182
	8	116	CR	*	232	-0.108															
	9	3A	CR	*	216	-0.151															
	9	3B	CR	*	216	-0.133															
	9	54	MC	*	216	-0.147															
	9	56	MC	*	216	-0.155	*	10452	-0.139					*	4469	-0.198	*	825	-0.199		
	9	57	MC											*	4469	-0.104	*	825	-0.209		
	9	66	MC	*	216	-0.137	*	10452	-0.112	*	5370	-0.104	*	4469	-0.142						
	9	72	CR				+	10452	0.217	+	5370	0.137	+	4469	0.333						
	9	88	MC																+	825	0.114
	9	91	MC							*	5370	-0.105	*	4469	-0.147						
	9	94	CR				+	10452	0.139					+	4469	0.205	+	825	0.135		
	10	2A	CR											*	3383	-0.138					
	10	2B	CR																*	576	-0.175
	10	2C	CR																*	576	-0.180
	10	2F	CR																*	576	-0.336
	10	3A	CR																*	576	-0.101
10	3B	CR																*	576	-0.130	
10	63	MC											*	3383	-0.108						

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 221. Items Flagged for DIF by Language Proficiency Focal Group (cont'd)**

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>														
				Bilingual			ESL			FEP			LEP			NEP		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	10	71	CR				+	9821	0.231	+	6048	0.174	+	3383	0.367			
	10	72	MC							*	6048	-0.103						
	10	73	MC				*	9821	-0.101	*	6048	-0.114						
	10	79	MC													+	576	0.108
	10	83	MC										*	3383	-0.112			
	10	84	MC													+	576	0.119
	10	93	CR				+	9821	0.109				+	3383	0.160			
Mathematics	3	20	CR													*	1570	-0.208
	3	40	CR	*	802	-0.117										*	1570	-0.121
	4	12	CR													+	1029	0.109
	4	14	MC													+	1029	0.100
	4	16	CR													*	1029	-0.217
	4	18	CR													*	1029	-0.235
	4	20	MC													*	1029	-0.107
	4	23	CR	+	524	0.116												
	4	31	CR	+	524	0.101												
	4	43	MC	*	524	-0.101												
	4	48	MC	*	524	-0.101										*	1029	-0.142
	4	69	CR	+	524	0.186	+	12326	0.101				+	8582	0.114			
	5	12	MC	*	505	-0.100												
	5	15	CR													*	936	-0.227
	5	18	MC	*	505	-0.106												
	5	23	CR	+	505	0.136												
	5	27	CR													*	936	-0.105
	5	46	CR													*	936	-0.131
	5	67	MC													+	936	0.114
	6	4	CR	+	298	0.130												
6	16	MC	+	298	0.107													
6	19	MC													+	836	0.122	
6	20	CR													+	836	0.118	

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 221. Items Flagged for DIF by Language Proficiency Focal Group (cont'd)**

Content Area	Grade	Item #	Item Type	Language Proficiency Focal Group <sup>1</sup>															
				Bilingual			ESL			FEP			LEP			NEP			
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	
Mathematics	6	23	CR													*	836	-0.166	
	6	32	CR	+	298	0.153										*	836	-0.129	
	6	37	MC	*	298	-0.116													
	6	42	MC													+	836	0.116	
	6	44	MC										*	6700	-0.117				
	6	46	CR	+	298	0.148													
	6	57	CR													*	836	-0.166	
	7	3	CR													+	829	0.120	
	7	20	CR	*	262	-0.143				*	4854	-0.106					*	829	-0.258
	7	26	CR													*	829	-0.258	
	8	2	MC													+	883	0.118	
	8	7	CR													*	883	-0.122	
	8	10	CR													*	883	-0.119	
	8	14	CR	+	234	0.215													
	8	60	CR											+	5350	0.116			
	9	8	MC	*	217	-0.102													
	9	20	CR	+	217	0.214											*	840	-0.182
	9	39	MC														*	840	-0.105
	9	41	MC													+	840	0.119	
	9	44	CR													*	840	-0.102	
9	49	MC													*	840	-0.104		
9	51	CR													*	840	-0.118		
9	56	CR	*	217	-0.114														
9	60	CR					+	10486	0.144	+	5370	0.120	+	4484	0.181				
10	7	MC											*	3397	-0.114				
10	18	MC													*	591	-0.161		
10	20	CR													*	591	-0.110		
10	32	CR													*	591	-0.187		
10	50	MC													*	591	-0.110		

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring



**Table 222. Items Flagged for DIF by Education Plan Focal Group**

Content Area	Grade	Item #	Item Type	Education Plan Focal Group <sup>1</sup>												
				504			GATE			IEP			Title 1			
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	
Reading	3	4	CR				*	750	-0.112							
	3	13	CR	*	558	-0.105	*	750	-0.105							
	3	23	CR	*	558	-0.119										
	3	32	CR				*	750	-0.149							
	4	35	CR	*	789	-0.135				*	6448	-0.100				
	4	42	CR	*	789	-0.123	*	1098	-0.154							
	4	45	CR	*	789	-0.128										
	4	49	CR	*	789	-0.155	*	1098	-0.156							
	4	51	CR				*	1098	-0.111							
	5	5	CR	*	925	-0.109	*	1252	-0.114							
	5	17	CR	*	925	-0.190	*	1252	-0.171							
	5	40	CR				*	1252	-0.128							
	5	95	MC	*	925	-0.109	*	1252	-0.114							
	5	107	MC	*	925	-0.190	*	1252	-0.171							
	6	6	CR				*	1195	-0.103							
	6	12	CR	*	1066	-0.155				*	1195	-0.159				
	6	19	CR				*	1195	-0.103							
	6	100	MC				*	1195	-0.103							
	6	106	MC	*	1066	-0.155				*	1195	-0.159				
	6	113	MC				*	1195	-0.159							
	7	5	CR	*	1151	-0.115										
	7	25	MC				+	1390	0.107							
	7	46	CR				*	1390	-0.146							
	7	47	CR	*	1151	-0.124										
	7	97	MC	*	1151	-0.115										
	8	30	CR				*	1567	-0.101							
	8	46	CR				*	1567	-0.103							
	8	48	CR	*	1206	-0.178							+	10334	0.107	
	9	22	CR	*	1216	-0.146	*	1429	-0.100							
	9	26	CR	*	1216	-0.142							+	5157	0.167	
9	40	CR										+	5157	0.139		
9	44	CR										+	5157	0.119		
9	113	MC	*	1216	-0.146	*	1429	-0.100								
10	13	CR	*	1267	-0.135											
10	27	CR				*	1385	-0.137								
10	30	CR				*	1385	-0.121								
10	31	CR	*	1267	-0.109							+	4742	0.113		
10	46	MC										+	4742	0.221		
10	103	MC	*	1267	-0.135							*	4742	-0.104		

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 222. Items Flagged for DIF by Education Plan Focal Group (cont'd)**

Content Area	Grade	Item #	Item Type	Education Plan Focal Group <sup>1</sup>												
				504			GATE			IEP			Title 1			
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	
Writing	3	19	MC				+	737	0.101							
	4	3B	CR				*	1096	-0.124	*	6448	-0.141				
	4	77	CR	*	787	-0.140	*	1096	-0.129							
	4	95	CR				*	1096	-0.114							
	5	2F	CR							*	6786	-0.100				
	5	74	CR	*	921	-0.143										
	6	59	MC				+	1194	0.130							
	7	3A	CR	*	1152	-0.103								+	10784	0.132
	7	70	CR	*	1152	-0.135										
	7	95	CR	*	1152	-0.162										
	8	3A	CR	*	1202	-0.121								+	10347	0.101
	8	3B	CR	*	1202	-0.124										
	8	75	CR	*	1202	-0.106										
	9	3A	CR											+	5136	0.113
	9	72	CR	*	1216	-0.194								+	5136	0.210
9	94	CR	*	1216	-0.132											
10	2E	CR				+	1385	0.125								
10	3B	CR							*	4838	-0.128					
10	71	CR	*	1272	-0.127								+	4750	0.201	
Mathematics	3	30	CR				+	754	0.124							
	4	46	CR				*	1099	-0.113	*	6472	-0.152				
	4	69	CR				+	1099	0.124							
	6	11	CR	*	1063	-0.114										
	6	14	CR	*	1063	-0.117										
	6	46	CR							*	6425	-0.107				
	7	26	CR							*	6052	-0.121				
	7	30	CR	+	1162	0.111										
	7	46	CR							+	6052	0.117				
	7	54	CR				+	1390	0.109							
	8	27	CR							+	5525	0.100				
	8	40	CR	*	1207	-0.110										
	8	53	CR				+	1568	0.129							
9	56	CR				+	1426	0.103								
9	60	CR	*	1224	-0.134								+	5184	0.116	
10	7	MC							*	4861	-0.111					

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 223. Items Flagged for DIF by Homeless, Immigrant, Migrant, Free-Lunch Eligible**

Content Area	Grade	Item #	Item Type	Focal Group <sup>1</sup>											
				Homeless			Immigrant			Migrant			Free Lunch		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Reading	3	23	CR				+	500	0.109	+	175	0.136			
	3	27	CR				+	500	0.126						
	4	34	MC							*	146	-0.139			
	4	45	CR							+	146	0.155			
	5	9	MC							*	180	-0.112			
	5	13	MC				*	397	-0.124						
	5	17	CR				*	397	-0.173						
	5	20	MC				*	397	-0.127						
	5	22	MC				*	397	-0.146	*	180	-0.104			
	5	33	CR				+	397	0.187						
	5	39	CR				+	397	0.139						
	5	40	CR				+	397	0.135						
	5	47	CR				+	397	0.156						
	5	99	MC							*	180	-0.112			
	5	103	MC				*	397	-0.124						
	5	107	MC				*	397	-0.173						
	5	110	MC				*	397	-0.127						
	5	112	MC				*	397	-0.146	*	180	-0.104			
	6	12	CR				+	409	0.344						
	6	17	MC				+	409	0.103						
	6	21	CR				+	409	0.148						
	6	36	MC							+	174	0.107			
	6	49	CR				+	409	0.111						
	6	51	MC							*	174	-0.102			
	6	106	MC				+	409	0.344						
	6	111	MC				+	409	0.103						
	6	115	MC				+	409	0.148						
	7	9	MC				*	415	-0.169						
	7	12	CR				+	415	0.122						
	7	13	CR				+	415	0.130						
	7	30	MC				*	415	-0.126						
	7	48	MC							*	187	-0.112			
	7	101	MC				*	415	-0.169						
	7	104	CR				+	415	0.122						
	7	105	MC				+	415	0.130						
	8	5	CR				+	410	0.221						
	8	8	CR				+	410	0.201						
	8	10	MC							*	162	-0.107			
	8	14	MC				*	410	-0.129						
	8	20	CR				+	410	0.218						
8	26	CR				+	410	0.126							
8	27	MC				*	410	-0.154	*	162	-0.115				
8	31	MC							*	162	-0.135				
8	36	MC							+	162	0.103				
8	45	MC				*	410	-0.110							
8	49	MC				*	410	-0.112							
8	54	CR				+	410	0.136							

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 223. Items Flagged for DIF by Homeless, Immigrant, Migrant, Free-Lunch Eligible (cont'd)**

Content Area	Grade	Item #	Item Type	Focal Group <sup>1</sup>												
				Homeless			Immigrant			Migrant			Free Lunch			
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	
Reading	8	100	CR				+	410	0.221							
	8	103	MC				+	410	0.201							
	8	105	MC							*	162	-0.107				
	8	109	CR				*	410	-0.129							
	8	115	MC				+	410	0.218							
	9	5	CR				+	488	0.165							
	9	6	MC							*	151	-0.119				
	9	8	CR				+	488	0.203							
	9	24	MC							*	151	-0.103				
	9	26	CR				+	488	0.346	+	151	0.241				
	9	31	MC							*	151	-0.117				
	9	34	MC							*	151	-0.116				
	9	37	CR					*	488	-0.156						
	9	40	CR				+	488	0.135	+	151	0.158				
	9	44	CR				+	488	0.127	+	151	0.134				
	9	96	CR				+	488	0.165							
	9	97	MC							*	151	-0.119				
	9	99	CR				+	488	0.203							
	9	115	CR							*	151	-0.103				
	10	11	CR	+	1058	0.111										
	10	12	MC				*	490	-0.124							
	10	13	CR							+	138	0.294				
	10	16	MC				*	490	-0.119							
	10	17	MC							*	138	-0.149				
	10	23	MC							*	138	-0.113				
	10	27	CR				*	490	-0.203	*	138	-0.159				
10	31	CR				+	490	0.316	+	138	0.263					
10	38	CR				+	490	0.116								
10	46	MC							*	138	-0.115					
10	101	MC	+	1058	0.111											
10	102	MC				*	490	-0.124								
10	103	MC							+	138	0.294					
10	106	MC				*	490	-0.119								
10	107	MC							*	138	-0.149					
10	113	MC							*	138	-0.113					
Writing	3	2	MC							*	172	-0.117				
	3	10C	CR							+	172	0.110				
	3	15	MC							*	172	-0.107				
	3	16	MC							*	172	-0.107				
	3	34	MC							*	172	-0.173				
	4	56	MC				*	398	-0.110							
	4	58	MC							*	146	-0.158				
	4	59	MC							*	146	-0.168				
	4	81	MC							+	146	0.118				
	4	87	MC				*	398	-0.143							

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 223. Items Flagged for DIF by Homeless, Immigrant, Migrant, Free-Lunch Eligible (cont'd)**

Content Area	Grade	Item #	Item Type	Focal Group <sup>1</sup>											
				Homeless			Immigrant			Migrant			Free Lunch		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Writing	4	95	CR							+	146	0.248			
	5	2C	CR				*	399	-0.109						
	5	2E	CR				*	399	-0.193						
	5	2F	CR				*	399	-0.204						
	5	3A	CR				+	399	0.123						
	5	66	MC				*	399	-0.142						
	6	2B	CR				*	410	-0.140						
	6	2D	CR				+	410	0.129						
	7	2D	CR				+	415	0.121						
	7	2E	CR				*	415	-0.159						
	7	56	MC							*	187	-0.128			
	7	64	MC							*	187	-0.102			
	7	85	MC				*	415	-0.126						
	7	92	MC				*	415	-0.205	*	187	-0.200			
	7	94	MC							+	187	0.102			
	7	95	CR				+	415	0.124	+	187	0.182			
	7	116	CR							*	187	-0.102			
	8	2A	CR				*	408	-0.243	*	162	-0.120			
	8	2B	CR							*	162	-0.105			
	8	2D	CR				*	408	-0.106	*	162	-0.126			
	8	2E	CR				+	408	0.103	+	162	0.113			
	8	57	MC				*	408	-0.124						
	8	81	MC							+	162	0.113			
	8	84	MC							*	162	-0.119			
	8	91	MC							*	162	-0.112			
	8	95	MC				+	408	0.140						
	9	2E	CR				*	488	-0.102						
	9	2F	CR				+	488	0.104						
	9	55	MC				+	488	0.113						
	9	56	MC				*	488	-0.278	*	153	-0.175			
9	57	MC				*	488	-0.203	*	153	-0.181				
9	62	MC							*	153	-0.109				
9	66	MC							*	153	-0.132				
9	72	CR							+	153	0.216				
10	2A	CR							*	138	-0.123				
10	2B	CR							*	138	-0.123				
10	2C	CR				*	485	-0.140							
10	2F	CR				*	485	-0.282							
10	54	MC				+	485	0.105							
10	64	MC				+	485	0.108							
10	71	CR							+	138	0.217	+	17730	0.102	
10	72	MC							*	138	-0.111				
10	84	MC				+	485	0.103	+	138	0.100				
10	116	CR				+	485	0.108							

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 223. Items Flagged for DIF by Homeless, Immigrant, Migrant, Free-Lunch Eligible (cont'd)**

Content Area	Grade	Item #	Item Type	Focal Group <sup>1</sup>												
				Homeless			Immigrant			Migrant			Free Lunch			
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	
Mathematics	3	20	CR				*	562	-0.161							
	3	26	CR									+	183	0.142		
	3	40	CR				*	562	-0.105							
	4	12	CR				+	444	0.109							
	4	14	MC				+	444	0.108							
	4	16	CR				*	444	-0.183							
	4	18	CR				*	444	-0.235							
	4	41	CR				*	444	-0.119							
	4	48	MC				*	444	-0.117							
	4	52	MC				*	444	-0.134	*	150	-0.127				
	4	67	MC				+	444	0.112							
	5	6	CR				*	402	-0.132							
	5	10	CR				*	402	-0.114							
	5	15	CR				*	402	-0.211							
	5	25	MC				+	402	0.132							
	5	46	CR				*	402	-0.167							
	5	65	MC									+	181	0.105		
	5	67	MC				+	402	0.158			+	181	0.102		
	6	11	CR									+	177	0.152		
	6	14	CR				*	420	-0.144							
	6	17	MC									*	177	-0.107		
	6	23	CR				*	420	-0.224	*	177	-0.142				
	6	29	CR				+	420	0.116							
	6	32	CR				*	420	-0.176							
	6	42	MC				+	420	0.109							
	6	44	MC				*	420	-0.128							
	7	3	CR				+	429	0.180							
	7	10	MC									+	186	0.101		
	7	49	CR				*	429	-0.117	*	186	-0.105				
	7	54	CR				*	429	-0.116							
	8	6	MC									+	162	0.115		
	8	7	CR				*	412	-0.147							
8	10	CR				*	412	-0.106								
8	20	CR									*	162	-0.158			
9	20	CR				*	496	-0.242								
9	24	MC									*	157	-0.115			
9	44	CR				*	496	-0.209								
9	51	CR				*	496	-0.193	*	157	-0.141					
10	2	CR				*	495	-0.153								
10	7	MC									*	140	-0.128			
10	18	MC				*	495	-0.116	*	140	-0.191					
10	20	CR				*	495	-0.173								
10	23	CR									+	140	0.123			
10	32	CR				*	495	-0.231								

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 223. Items Flagged for DIF by Homeless, Immigrant, Migrant, Free-Lunch Eligible (cont'd)**

Content Area	Grade	Item #	Item Type	Focal Group <sup>1</sup>											
				Homeless			Immigrant			Migrant			Free Lunch		
				Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd	Flag	N	Obs-Prd
Mathematics	10	36	CR				*	495	-0.165						
	10	38	MC							+	140	0.101			
	10	42	CR				+	495	0.118						
	10	55	MC				*	495	-0.125						

1. DIF is not reported for N less than 100. Flag + = favoring and \* = disfavoring

**Table 224. Intercorrelations among Content Areas (Scale Scores)**

Grade	Content Area	Reading	Writing	Mathematics
3	Reading	1.00	0.77	0.73
	Writing		1.00	0.74
	Mathematics			1.00
4	Reading	1.00	0.81	0.77
	Writing		1.00	0.78
	Mathematics			1.00
5	Reading	1.00	0.82	0.78
	Writing		1.00	0.80
	Mathematics			1.00
6	Reading	1.00	0.83	0.78
	Writing		1.00	0.79
	Mathematics			1.00
7	Reading	1.00	0.83	0.78
	Writing		1.00	0.77
	Mathematics			1.00
8	Reading	1.00	0.84	0.79
	Writing		1.00	0.78
	Mathematics			1.00
9	Reading	1.00	0.85	0.77
	Writing		1.00	0.77
	Mathematics			1.00
10	Reading	1.00	0.83	0.75
	Writing		1.00	0.74
	Mathematics			1.00



**Table 225. Intercorrelations among Content Areas (Percentile Ranks)**

Grade	Content Area	Reading	Writing	Mathematics
3	Reading	1.00	0.81	0.76
	Writing		1.00	0.75
	Mathematics			1.00
4	Reading	1.00	0.86	0.81
	Writing		1.00	0.78
	Mathematics			1.00
5	Reading	1.00	0.86	0.81
	Writing		1.00	0.80
	Mathematics			1.00
6	Reading	1.00	0.85	0.80
	Writing		1.00	0.80
	Mathematics			1.00
7	Reading	1.00	0.86	0.79
	Writing		1.00	0.78
	Mathematics			1.00
8	Reading	1.00	0.86	0.79
	Writing		1.00	0.78
	Mathematics			1.00
9	Reading	1.00	0.88	0.78
	Writing		1.00	0.78
	Mathematics			1.00
10	Reading	1.00	0.86	0.78
	Writing		1.00	0.76
	Mathematics			1.00

**Table 226. Intercorrelations with Demographic Variables**

Content Area	Grade	Age	Gender	Am. Indian/ AK Native	Asian	Black	Hispanic
Reading	3	-0.032	-0.092	-0.039	0.026	-0.093	-0.265
	4	-0.054	-0.119	-0.042	0.034	-0.090	-0.278
	5	-0.064	-0.131	-0.036	0.043	-0.092	-0.281
	6	-0.085	-0.140	-0.036	0.046	-0.100	-0.297
	7	-0.097	-0.145	-0.033	0.050	-0.098	-0.290
	8	-0.116	-0.154	-0.037	0.049	-0.110	-0.302
	9	-0.149	-0.178	-0.032	0.045	-0.103	-0.278
	10	-0.148	-0.166	-0.033	0.047	-0.102	-0.273
Writing	3	-0.035	-0.181	-0.040	0.039	-0.088	-0.230
	4	-0.049	-0.187	-0.046	0.063	-0.088	-0.267
	5	-0.065	-0.184	-0.040	0.060	-0.091	-0.259
	6	-0.094	-0.196	-0.041	0.071	-0.092	-0.260
	7	-0.103	-0.212	-0.041	0.078	-0.087	-0.280
	8	-0.126	-0.219	-0.038	0.061	-0.094	-0.259
	9	-0.161	-0.208	-0.036	0.054	-0.104	-0.271
	10	-0.152	-0.224	-0.040	0.065	-0.090	-0.253
Mathematics	3	-0.009	0.023	-0.037	0.066	-0.125	-0.275
	4	-0.047	0.013	-0.045	0.067	-0.123	-0.299
	5	-0.061	-0.002	-0.043	0.080	-0.122	-0.293
	6	-0.094	-0.001	-0.042	0.086	-0.121	-0.293
	7	-0.115	-0.019	-0.037	0.086	-0.124	-0.301
	8	-0.130	-0.026	-0.039	0.087	-0.131	-0.283
	9	-0.172	-0.012	-0.035	0.078	-0.129	-0.288
	10	-0.157	0.000	-0.037	0.093	-0.126	-0.292
Reading Spanish	3	0.010	-0.197	-0.008		-0.008	0.027
	4	-0.009	-0.156				0.056
Writing Spanish	3	0.017	-0.252	-0.012		-0.015	0.038
	4	-0.041	-0.281				0.066

**Table 227. Predictive Validity Coefficients**

Content Area	Grade in 2013	Grade in 2014	Number Matched	Reliability 2013	Reliability 2014	Correlation $r_{2013-2014}$	Validity Coefficient
Reading	3	4	58923	0.89	0.93	0.83	0.91
	4	5	60630	0.93	0.94	0.87	0.93
	5	6	59426	0.93	0.93	0.86	0.93
	6	7	59326	0.93	0.93	0.86	0.92
	7	8	58512	0.93	0.92	0.87	0.94
	8	9	56666	0.92	0.92	0.86	0.94
	9	10	55120	0.93	0.92	0.85	0.92
Writing	3	4	59061	0.91	0.92	0.75	0.82
	4	5	61112	0.91	0.91	0.78	0.85
	5	6	59631	0.91	0.91	0.80	0.87
	6	7	59637	0.91	0.90	0.79	0.87
	7	8	58677	0.91	0.91	0.81	0.89
	8	9	56921	0.91	0.91	0.81	0.89
	9	10	55459	0.92	0.91	0.77	0.85
Mathematics	3	4	60562	0.91	0.94	0.86	0.93
	4	5	61073	0.94	0.95	0.89	0.95
	5	6	59773	0.94	0.95	0.90	0.95
	6	7	59302	0.94	0.93	0.90	0.96
	7	8	58235	0.93	0.94	0.90	0.97
	8	9	56200	0.93	0.93	0.89	0.96
	9	10	54413	0.92	0.94	0.89	0.96

\* The Spanish version tests were removed from this table due to having very small n counts.

**Table 228. Classification Consistency and Classification Accuracy for Reading Grade 3**

**Contingency Table with All Cut Scores**

	<b>Unsatisfactory</b>	<b>Partially Proficient</b>	<b>Proficient</b>	<b>Advanced</b>	<b>Sum</b>
<b>Unsatisfactory</b>	0.0860	0.0261	0.0002	0.0000	0.1123
<b>Partially Proficient</b>	0.0228	0.1126	0.0450	0.0000	0.1804
<b>Proficient</b>	0.0012	0.0421	0.5541	0.0345	0.6319
<b>Advanced</b>	0.0000	0.0000	0.0259	0.0494	0.0754
<b>Sum</b>	0.1099	0.1809	0.6253	0.0839	0.1938
<b>Observed Score Dist.</b>	0.1018	0.1788	0.6532	0.0662	

**Indices for Classification Consistency and Classification Accuracy**

	<b>Cut 1</b>	<b>Cut 2</b>	<b>Cut 3</b>	<b>All Cuts</b>
<b>Classification Agreement (P)</b>	0.9497	0.9114	0.9396	0.8022
<b>Chance Probability (Pc)</b>	0.8025	0.5867	0.8534	0.4464
<b>Kappa</b>	0.7456	0.7857	0.5881	0.6427
<b>Classification Accuracy</b>	0.9652	0.9350	0.9583	0.8586

**Table 229. Classification Consistency and Classification Accuracy for Reading Grade 4**

**Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0864	0.0158	0.0000	0.0000	0.1022
Partially Proficient	0.0172	0.1634	0.0421	0.0000	0.2227
Proficient	0.0000	0.0397	0.5595	0.0192	0.6183
Advanced	0.0000	0.0000	0.0253	0.0315	0.0568
Sum	0.1036	0.2188	0.6269	0.0507	0.1543
Observed Score Dist.	0.1006	0.2219	0.6372	0.0403	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9670	0.9182	0.9555	0.8408
Chance Probability (Pc)	0.8154	0.5622	0.8982	0.4498
Kappa	0.8214	0.8133	0.5632	0.7107
Classification Accuracy	0.9780	0.9427	0.9694	0.8900

**Table 230. Classification Consistency and Classification Accuracy for Reading Grade 5**

**Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1023	0.0185	0.0000	0.0000	0.1208
Partially Proficient	0.0178	0.1195	0.0380	0.0000	0.1752
Proficient	0.0000	0.0318	0.5385	0.0341	0.6045
Advanced	0.0000	0.0000	0.0321	0.0675	0.0996
Sum	0.1200	0.1698	0.6085	0.1016	0.2216
Observed Score Dist.	0.1189	0.1680	0.6294	0.0837	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9638	0.9302	0.9338	0.8278
Chance Probability (Pc)	0.7882	0.5857	0.8191	0.4222
Kappa	0.8289	0.8315	0.6342	0.7020
Classification Accuracy	0.9755	0.9535	0.9511	0.8801

**Table 231. Classification Consistency and Classification Accuracy for Reading Grade 6****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0797	0.0188	0.0000	0.0000	0.0985
Partially Proficient	0.0161	0.1376	0.0367	0.0000	0.1904
Proficient	0.0000	0.0356	0.5068	0.0397	0.5821
Advanced	0.0000	0.0000	0.0411	0.0879	0.1290
Sum	0.0959	0.1919	0.5846	0.1276	0.2235
Observed Score Dist.	0.0941	0.1870	0.6057	0.1132	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9651	0.9277	0.9192	0.8120
Chance Probability (Pc)	0.8245	0.5896	0.7764	0.4028
Kappa	0.8010	0.8239	0.6389	0.6853
Classification Accuracy	0.9753	0.9476	0.9460	0.8689

**Table 232. Classification Consistency and Classification Accuracy for Reading Grade 7**

**Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0934	0.0162	0.0000	0.0000	0.1096
Partially Proficient	0.0201	0.1378	0.0478	0.0000	0.2056
Proficient	0.0000	0.0411	0.5003	0.0338	0.5751
Advanced	0.0000	0.0000	0.0379	0.0717	0.1097
Sum	0.1135	0.1951	0.5860	0.1055	0.2190
Observed Score Dist.	0.1083	0.2003	0.5992	0.0923	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9638	0.9111	0.9283	0.8032
Chance Probability (Pc)	0.8018	0.5708	0.8079	0.4011
Kappa	0.8171	0.7930	0.6266	0.6713
Classification Accuracy	0.9742	0.9399	0.9500	0.8642



**Table 233. Classification Consistency and Classification Accuracy for Reading Grade 8**

**Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0880	0.0203	0.0000	0.0000	0.1083
Partially Proficient	0.0209	0.1639	0.0450	0.0000	0.2298
Proficient	0.0000	0.0456	0.4901	0.0353	0.5710
Advanced	0.0000	0.0000	0.0299	0.0610	0.0909
Sum	0.1089	0.2298	0.5650	0.0963	0.2052
Observed Score Dist.	0.1028	0.2280	0.5850	0.0841	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9588	0.9094	0.9348	0.8030
Chance Probability (Pc)	0.8064	0.5522	0.8303	0.3960
Kappa	0.7872	0.7976	0.6157	0.6738
Classification Accuracy	0.9719	0.9369	0.9557	0.8645

**Table 234. Classification Consistency and Classification Accuracy for Reading Grade 9**

**Contingency Table with All Cut Scores**

	<b>Unsatisfactory</b>	<b>Partially Proficient</b>	<b>Proficient</b>	<b>Advanced</b>	<b>Sum</b>
<b>Unsatisfactory</b>	0.0583	0.0184	0.0000	0.0000	0.0766
<b>Partially Proficient</b>	0.0161	0.1924	0.0430	0.0000	0.2515
<b>Proficient</b>	0.0000	0.0457	0.5734	0.0150	0.6342
<b>Advanced</b>	0.0000	0.0000	0.0143	0.0235	0.0377
<b>Sum</b>	0.0744	0.2565	0.6306	0.0385	0.1129
<b>Observed Score Dist.</b>	0.0700	0.2576	0.6415	0.0310	

**Indices for Classification Consistency and Classification Accuracy**

	<b>Cut 1</b>	<b>Cut 2</b>	<b>Cut 3</b>	<b>All Cuts</b>
<b>Classification Agreement (P)</b>	0.9656	0.9113	0.9707	0.8476
<b>Chance Probability (Pc)</b>	0.8604	0.5581	0.9267	0.4716
<b>Kappa</b>	0.7533	0.7993	0.6006	0.7116
<b>Classification Accuracy</b>	0.9766	0.9323	0.9800	0.8889

**Table 235. Classification Consistency and Classification Accuracy for Reading Grade 10**

**Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0633	0.0150	0.0000	0.0000	0.0784
Partially Proficient	0.0164	0.1652	0.0381	0.0000	0.2197
Proficient	0.0000	0.0425	0.5333	0.0287	0.6045
Advanced	0.0000	0.0000	0.0321	0.0653	0.0974
Sum	0.0797	0.2228	0.6035	0.0940	0.1737
Observed Score Dist.	0.0758	0.2191	0.6223	0.0827	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9686	0.9194	0.9392	0.8272
Chance Probability (Pc)	0.8544	0.5798	0.8269	0.4292
Kappa	0.7843	0.8082	0.6487	0.6973
Classification Accuracy	0.9785	0.9425	0.9591	0.8802

**Table 236. Classification Consistency and Classification Accuracy for Writing Grade 3**

**Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0478	0.0160	0.0000	0.0000	0.0638
Partially Proficient	0.0131	0.3512	0.0602	0.0006	0.4251
Proficient	0.0000	0.0608	0.3120	0.0406	0.4134
Advanced	0.0000	0.0000	0.0369	0.0607	0.0976
Sum	0.0609	0.4280	0.4092	0.1019	0.1628
Observed Score Dist.	0.0585	0.4292	0.4358	0.0766	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9709	0.8783	0.9219	0.7717
Chance Probability (Pc)	0.8830	0.5002	0.8204	0.3649
Kappa	0.7509	0.7566	0.5650	0.6405
Classification Accuracy	0.9796	0.9150	0.9434	0.8381

**Table 237. Classification Consistency and Classification Accuracy for Writing Grade 4****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0591	0.0193	0.0000	0.0000	0.0784
Partially Proficient	0.0196	0.3303	0.0562	0.0000	0.4061
Proficient	0.0000	0.0519	0.3341	0.0332	0.4192
Advanced	0.0000	0.0000	0.0319	0.0645	0.0963
Sum	0.0787	0.4015	0.4222	0.0977	0.1764
Observed Score Dist.	0.0727	0.4076	0.4387	0.0810	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9611	0.8919	0.9349	0.7879
Chance Probability (Pc)	0.8553	0.5006	0.8248	0.3556
Kappa	0.7310	0.7836	0.6285	0.6709
Classification Accuracy	0.9714	0.9251	0.9553	0.8518

**Table 238. Classification Consistency and Classification Accuracy for Writing Grade 5****Contingency Table with All Cut Scores**

	<b>Unsatisfactory</b>	<b>Partially Proficient</b>	<b>Proficient</b>	<b>Advanced</b>	<b>Sum</b>
<b>Unsatisfactory</b>	0.0451	0.0167	0.0000	0.0000	0.0618
<b>Partially Proficient</b>	0.0157	0.3016	0.0659	0.0000	0.3832
<b>Proficient</b>	0.0000	0.0623	0.3614	0.0337	0.4574
<b>Advanced</b>	0.0000	0.0000	0.0301	0.0675	0.0976
<b>Sum</b>	0.0608	0.3807	0.4574	0.1012	0.1620
<b>Observed Score Dist.</b>	0.0573	0.3850	0.4747	0.0829	

**Indices for Classification Consistency and Classification Accuracy**

	<b>Cut 1</b>	<b>Cut 2</b>	<b>Cut 3</b>	<b>All Cuts</b>
<b>Classification Agreement (P)</b>	0.9676	0.8718	0.9363	0.7756
<b>Chance Probability (Pc)</b>	0.8849	0.5064	0.8210	0.3687
<b>Kappa</b>	0.7181	0.7402	0.6439	0.6446
<b>Classification Accuracy</b>	0.9772	0.9197	0.9532	0.8501

**Table 239. Classification Consistency and Classification Accuracy for Writing Grade 6**

**Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0350	0.0148	0.0000	0.0000	0.0498
Partially Proficient	0.0141	0.3035	0.0594	0.0000	0.3770
Proficient	0.0000	0.0629	0.3916	0.0281	0.4826
Advanced	0.0000	0.0000	0.0275	0.0631	0.0906
Sum	0.0491	0.3812	0.4785	0.0912	0.1403
Observed Score Dist.	0.0461	0.3839	0.4914	0.0787	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9711	0.8777	0.9443	0.7931
Chance Probability (Pc)	0.9060	0.5102	0.8347	0.3854
Kappa	0.6920	0.7503	0.6632	0.6634
Classification Accuracy	0.9799	0.9208	0.9611	0.8618

**Table 240. Classification Consistency and Classification Accuracy for Writing Grade 7**

**Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0227	0.0123	0.0000	0.0000	0.0350
Partially Proficient	0.0121	0.2866	0.0514	0.0000	0.3501
Proficient	0.0000	0.0557	0.3588	0.0423	0.4569
Advanced	0.0000	0.0000	0.0410	0.1170	0.1580
Sum	0.0347	0.3547	0.4513	0.1593	0.1940
Observed Score Dist.	0.0304	0.3570	0.4702	0.1424	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9756	0.8928	0.9167	0.7851
Chance Probability (Pc)	0.9327	0.5254	0.7330	0.3568
Kappa	0.6375	0.7742	0.6879	0.6659
Classification Accuracy	0.9837	0.9255	0.9373	0.8464



**Table 241. Classification Consistency and Classification Accuracy for Writing Grade 8****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0227	0.0108	0.0000	0.0000	0.0335
Partially Proficient	0.0103	0.3290	0.0600	0.0000	0.3993
Proficient	0.0000	0.0599	0.3704	0.0341	0.4644
Advanced	0.0000	0.0000	0.0301	0.0726	0.1028
Sum	0.0330	0.3997	0.4606	0.1067	0.1397
Observed Score Dist.	0.0291	0.4039	0.4752	0.0918	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9788	0.8801	0.9358	0.7948
Chance Probability (Pc)	0.9357	0.5090	0.8125	0.3856
Kappa	0.6708	0.7559	0.6577	0.6660
Classification Accuracy	0.9859	0.9180	0.9538	0.8577

**Table 242. Classification Consistency and Classification Accuracy for Writing Grade 9**

**Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0274	0.0132	0.0000	0.0000	0.0406
Partially Proficient	0.0128	0.3391	0.0596	0.0000	0.4114
Proficient	0.0000	0.0509	0.3600	0.0325	0.4435
Advanced	0.0000	0.0000	0.0353	0.0692	0.1045
Sum	0.0402	0.4032	0.4549	0.1018	0.1420
Observed Score Dist.	0.0350	0.4158	0.4632	0.0859	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9740	0.8895	0.9322	0.7958
Chance Probability (Pc)	0.9224	0.5054	0.8150	0.3798
Kappa	0.6651	0.7766	0.6336	0.6707
Classification Accuracy	0.9815	0.9239	0.9506	0.8560

**Table 243. Classification Consistency and Classification Accuracy for Writing Grade 10**

**Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0557	0.0179	0.0000	0.0000	0.0737
Partially Proficient	0.0129	0.3551	0.0703	0.0000	0.4383
Proficient	0.0000	0.0519	0.3102	0.0310	0.3931
Advanced	0.0000	0.0000	0.0311	0.0638	0.0949
Sum	0.0686	0.4249	0.4117	0.0948	0.1634
Observed Score Dist.	0.0704	0.4329	0.4185	0.0782	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9692	0.8778	0.9378	0.7848
Chance Probability (Pc)	0.8678	0.4998	0.8283	0.3621
Kappa	0.7667	0.7557	0.6380	0.6626
Classification Accuracy	0.9783	0.9151	0.9560	0.8494

**Table 244. Classification Consistency and Classification Accuracy for Mathematics Grade 3****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0634	0.0228	0.0002	0.0000	0.0864
Partially Proficient	0.0209	0.1376	0.0395	0.0000	0.1981
Proficient	0.0002	0.0447	0.2951	0.0500	0.3901
Advanced	0.0000	0.0000	0.0558	0.2697	0.3255
Sum	0.0845	0.2052	0.3906	0.3197	0.4042
Observed Score Dist.	0.0787	0.2032	0.4041	0.3139	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9559	0.9154	0.8942	0.7658
Chance Probability (P <sub>c</sub> )	0.8437	0.5906	0.5629	0.3044
Kappa	0.7178	0.7933	0.7578	0.6633
Classification Accuracy	0.9692	0.9400	0.9165	0.8258

**Table 245. Classification Consistency and Classification Accuracy for Mathematics Grade 4****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0696	0.0180	0.0004	0.0000	0.0880
Partially Proficient	0.0192	0.1428	0.0358	0.0000	0.1978
Proficient	0.0000	0.0335	0.3442	0.0442	0.4219
Advanced	0.0000	0.0000	0.0438	0.2485	0.2923
Sum	0.0888	0.1943	0.4243	0.2927	0.3815
Observed Score Dist.	0.0816	0.2000	0.4315	0.2868	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9624	0.9302	0.9120	0.8051
Chance Probability (P <sub>c</sub> )	0.8389	0.5930	0.5861	0.3108
Kappa	0.7669	0.8286	0.7873	0.7172
Classification Accuracy	0.9742	0.9506	0.9394	0.8643

**Table 246. Classification Consistency and Classification Accuracy for Mathematics Grade 5****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.0748	0.0200	0.0000	0.0000	0.0949
Partially Proficient	0.0232	0.1967	0.0371	0.0000	0.2570
Proficient	0.0000	0.0379	0.2791	0.0328	0.3498
Advanced	0.0000	0.0000	0.0369	0.2614	0.2983
Sum	0.0980	0.2546	0.3531	0.2942	0.3922
Observed Score Dist.	0.0939	0.2577	0.3602	0.2883	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9568	0.9249	0.9304	0.8121
Chance Probability (P <sub>c</sub> )	0.8257	0.5437	0.5830	0.2860
Kappa	0.7521	0.8355	0.8330	0.7368
Classification Accuracy	0.9712	0.9460	0.9490	0.8662

**Table 247. Classification Consistency and Classification Accuracy for Mathematics Grade 6****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1099	0.0238	0.0000	0.0000	0.1338
Partially Proficient	0.0234	0.1948	0.0389	0.0000	0.2571
Proficient	0.0000	0.0397	0.2643	0.0313	0.3353
Advanced	0.0000	0.0000	0.0361	0.2378	0.2739
Sum	0.1333	0.2584	0.3393	0.2690	0.4023
Observed Score Dist.	0.1281	0.2586	0.3492	0.2641	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9528	0.9214	0.9326	0.8068
Chance Probability (P <sub>c</sub> )	0.7686	0.5236	0.6045	0.2717
Kappa	0.7961	0.8350	0.8297	0.7348
Classification Accuracy	0.9669	0.9460	0.9494	0.8623

**Table 248. Classification Consistency and Classification Accuracy for Mathematics Grade 7****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1280	0.0382	0.0000	0.0000	0.1663
Partially Proficient	0.0384	0.2106	0.0422	0.0004	0.2916
Proficient	0.0000	0.0450	0.1929	0.0358	0.2738
Advanced	0.0000	0.0000	0.0308	0.2376	0.2684
Sum	0.1664	0.2938	0.2660	0.2738	0.4402
Observed Score Dist.	0.1582	0.2934	0.2818	0.2666	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9234	0.9124	0.9330	0.7692
Chance Probability (P <sub>c</sub> )	0.7227	0.5034	0.6048	0.2596
Kappa	0.7237	0.8237	0.8305	0.6882
Classification Accuracy	0.9462	0.9387	0.9497	0.8346



**Table 249. Classification Consistency and Classification Accuracy for Mathematics Grade 8****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1656	0.0423	0.0000	0.0000	0.2078
Partially Proficient	0.0404	0.1771	0.0430	0.0000	0.2604
Proficient	0.0003	0.0441	0.2156	0.0264	0.2864
Advanced	0.0000	0.0000	0.0321	0.2132	0.2453
Sum	0.2062	0.2635	0.2907	0.2396	0.4458
Observed Score Dist.	0.1986	0.2737	0.2856	0.2421	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9171	0.9126	0.9415	0.7715
Chance Probability (P <sub>c</sub> )	0.6717	0.5019	0.6327	0.2535
Kappa	0.7474	0.8246	0.8407	0.6939
Classification Accuracy	0.9437	0.9415	0.9565	0.8417

**Table 250. Classification Consistency and Classification Accuracy for Mathematics Grade 9****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2503	0.0559	0.0000	0.0000	0.3062
Partially Proficient	0.0517	0.1943	0.0385	0.0003	0.2849
Proficient	0.0000	0.0454	0.1795	0.0232	0.2481
Advanced	0.0000	0.0000	0.0240	0.1368	0.1608
Sum	0.3020	0.2957	0.2420	0.1603	0.4623
Observed Score Dist.	0.2953	0.3028	0.2505	0.1514	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.8924	0.9157	0.9525	0.7609
Chance Probability (P <sub>c</sub> )	0.5767	0.5178	0.7305	0.2625
Kappa	0.7457	0.8252	0.8237	0.6757
Classification Accuracy	0.9225	0.9366	0.9690	0.8281

**Table 251. Classification Consistency and Classification Accuracy for Mathematics Grade 10****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.2612	0.0521	0.0007	0.0000	0.3141
Partially Proficient	0.0476	0.2640	0.0331	0.0000	0.3447
Proficient	0.0000	0.0324	0.2260	0.0146	0.2731
Advanced	0.0000	0.0000	0.0147	0.0535	0.0682
Sum	0.3088	0.3485	0.2745	0.0682	0.3770
Observed Score Dist.	0.3088	0.3536	0.2749	0.0627	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.8996	0.9338	0.9707	0.8048
Chance Probability (P <sub>c</sub> )	0.5711	0.5499	0.8729	0.2967
Kappa	0.7659	0.8529	0.7692	0.7224
Classification Accuracy	0.9299	0.9553	0.9806	0.8658

**Table 252. Classification Consistency and Classification Accuracy for Reading Grade 3 (Spanish)****Contingency Table with All Cut Scores**

	Unsatisfactory	Partially Proficient	Proficient	Advanced	Sum
Unsatisfactory	0.1402	0.0293	0.0016	0.0000	0.1711
Partially Proficient	0.0338	0.1201	0.0514	0.0000	0.2053
Proficient	0.0011	0.0557	0.3883	0.0493	0.4945
Advanced	0.0000	0.0000	0.0406	0.0885	0.1291
Sum	0.1751	0.2052	0.4819	0.1378	1.0000
Observed Score Dist.	0.1689	0.2004	0.5162	0.1145	

**Indices for Classification Consistency and Classification Accuracy**

	Cut 1	Cut 2	Cut 3	All Cuts
Classification Agreement (P)	0.9342	0.8901	0.9101	0.7371
Chance Probability (P <sub>c</sub> )	0.7137	0.5296	0.7687	0.3282
Kappa	0.7701	0.7665	0.6113	0.6087
Classification Accuracy	0.9511	0.9169	0.9378	0.8059

**Table 253. Classification Consistency and Classification Accuracy for Reading Grade 4 (Spanish)****Contingency Table with All Cut Scores**

	<b>Unsatisfactory</b>	<b>Partially Proficient</b>	<b>Proficient</b>	<b>Advanced</b>	<b>Sum</b>
<b>Unsatisfactory</b>	0.2899	0.0497	0.0003	0.0000	0.3399
<b>Partially Proficient</b>	0.0493	0.1740	0.0466	0.0000	0.2698
<b>Proficient</b>	0.0005	0.0479	0.3058	0.0105	0.3647
<b>Advanced</b>	0.0000	0.0000	0.0089	0.0166	0.0255
<b>Sum</b>	0.3397	0.2717	0.3617	0.0270	1.0000
<b>Observed Score Dist.</b>	0.3554	0.2771	0.3434	0.0241	

**Indices for Classification Consistency and Classification Accuracy**

	<b>Cut 1</b>	<b>Cut 2</b>	<b>Cut 3</b>	<b>All Cuts</b>
<b>Classification Agreement (P)</b>	0.9002	0.9046	0.9806	0.7863
<b>Chance Probability (Pc)</b>	0.5513	0.5244	0.9489	0.3214
<b>Kappa</b>	0.7775	0.7995	0.6212	0.6851
<b>Classification Accuracy</b>	0.9285	0.9321	0.9876	0.8481

**Table 254. Classification Consistency and Classification Accuracy for Writing Grade 3 (Spanish)****Contingency Table with All Cut Scores**

	<b>Unsatisfactory</b>	<b>Partially Proficient</b>	<b>Proficient</b>	<b>Advanced</b>	<b>Sum</b>
<b>Unsatisfactory</b>	0.1091	0.0318	0.0004	0.0000	0.1414
<b>Partially Proficient</b>	0.0300	0.1427	0.0577	0.0003	0.2307
<b>Proficient</b>	0.0005	0.0547	0.2686	0.0624	0.3862
<b>Advanced</b>	0.0000	0.0001	0.0599	0.1817	0.2417
<b>Sum</b>	0.1396	0.2294	0.3866	0.2444	1.0000
<b>Observed Score Dist.</b>	0.1332	0.2354	0.3975	0.2339	

**Indices for Classification Consistency and Classification Accuracy**

	<b>Cut 1</b>	<b>Cut 2</b>	<b>Cut 3</b>	<b>All Cuts</b>
<b>Classification Agreement (P)</b>	0.9373	0.8863	0.8773	0.7022
<b>Chance Probability (Pc)</b>	0.7585	0.5335	0.6320	0.2810
<b>Kappa</b>	0.7404	0.7562	0.6666	0.5857
<b>Classification Accuracy</b>	0.9541	0.9218	0.9102	0.7862

**Table 255. Classification Consistency and Classification Accuracy for Writing Grade 4 (Spanish)****Contingency Table with All Cut Scores**

	<b>Unsatisfactory</b>	<b>Partially Proficient</b>	<b>Proficient</b>	<b>Advanced</b>	<b>Sum</b>
<b>Unsatisfactory</b>	0.3844	0.0782	0.0010	0.0000	0.4636
<b>Partially Proficient</b>	0.0646	0.1973	0.0445	0.0000	0.3065
<b>Proficient</b>	0.0010	0.0519	0.1642	0.0040	0.2210
<b>Advanced</b>	0.0000	0.0000	0.0036	0.0053	0.0089
<b>Sum</b>	0.4500	0.3274	0.2133	0.0093	1.0000
<b>Observed Score Dist.</b>	0.3313	0.3976	0.2530	0.0181	

**Indices for Classification Consistency and Classification Accuracy**

	<b>Cut 1</b>	<b>Cut 2</b>	<b>Cut 3</b>	<b>All Cuts</b>
<b>Classification Agreement (P)</b>	0.8552	0.9016	0.9924	0.7512
<b>Chance Probability (Pc)</b>	0.5036	0.6499	0.9820	0.3562
<b>Kappa</b>	0.7082	0.7191	0.5801	0.6136
<b>Classification Accuracy</b>	0.8995	0.9316	0.9943	0.8254