

2014 Colorado Alternate Assessment (CoAlt)

**Operational
Technical Report**

Submitted

September 24, 2014



**McGraw-Hill Education CTB
Monterey, California 93940**

Copyright

Developed and published under contract with the Colorado Department of Education by CTB/McGraw-Hill LLC, 20 Ryan Ranch Road, Monterey, California 93940-5703. Copyright © 2014 by the Colorado Department of Education. Based on a template copyright © 1996 by CTB/McGraw-Hill LLC. All rights reserved. Only State of Colorado educators and citizens may copy, download and/or print the document, located online at <http://www.cde.state.co.us/assessment/CoAltAssess-AdditionalResources>. Any other use or reproduction of this document, in whole or in part, requires written permission of the Colorado Department of Education and the publisher.

Table of Contents

Copyright.....	i
Table of Contents.....	ii
List of Tables.....	iv
List of Figures.....	vii
Acronyms and Abbreviations.....	viii
Executive Summary	1
Overview	2
Introduction.....	2
Purpose of the CoAlt.....	3
Use of the Assessment Information	3
Part 1: Standards	4
Part 2: Test Development.....	4
Test Design	4
Item Review and Test Fairness.....	5
Item Selection.....	5
Part 3: Description of the Population.....	6
Description of Students.....	6
Student Eligibility Criteria	6
Population Characteristics	6
Part 4: Test Administration	7
Teacher/Test Examiner Training.....	8
Additional Training	8
Part 5: Scoring	8
Scoring Rubrics	8
Level of Independence	9
Multiple-Choice Item Types	10
Constructed-Response Item Types.....	10
Score Validation.....	11
Part 6: Standard Setting.....	11
Part 7: Analyses and Results	13
Item Level Statistics.....	13
Item Difficulty (p-values)	13
Item Discrimination (point-biserial correlation)	15
Content Standards Level Statistics	17
Total Test Level Statistics	18
Proficiency Level Data	18
Part 8: Summary of Results—Reliability and Validity	19
Reliability	19
Item-specific reliability	19
Total test reliability.....	20
Validity.....	23
Part 9: Special Studies.....	25

Level of Independence.....	25
Additional Reliability Measures	25
Student Scores	26
Performance Levels and Response Modes.....	26
Part 10: Longitudinal Analyses.....	26
Reading	27
Writing	30
Mathematics	34
Conclusion	38
References.....	51
Tables 1–81	53
Figures 1–24	380
Appendix A: Location of Information for Peer Review Critical Elements	405

List of Tables

Table 1 Reading Test Design: Number of Items and Score Points per Expanded Benchmark by Grade and Maximum Score Possible	54
Table 2 Writing Test Design: Number of Items and Score Points per Expanded Benchmark by Grade and Maximum Score Possible	57
Table 3 Mathematics Test Design: Number of Items and Score Points per Expanded Benchmark by Grade and Maximum Score Possible	59
Table 4 Test Design: Number of Items by Maximum Item Score	61
Table 5 Reading Descriptive Statistics by Gender and Race/Ethnicity	62
Table 6 Writing Descriptive Statistics by Gender and Race/Ethnicity	66
Table 7 Mathematics Descriptive Statistics by Gender and Race/Ethnicity	70
Table 8 Reading Descriptive Statistics by English Language Proficiency	74
Table 9 Writing Descriptive Statistics by English Language Proficiency	82
Table 10 Mathematics Descriptive Statistics by English Language Proficiency	90
Table 11 Reading Descriptive Statistics by Free/Reduced Price Lunch Eligibility	98
Table 12 Writing Descriptive Statistics by Free/Reduced Price Lunch Eligibility	99
Table 13 Mathematics Descriptive Statistics by Free/Reduced Price Lunch Eligibility	100
Table 14 Reading Descriptive Statistics by Primary Disability	101
Table 15 Writing Descriptive Statistics by Primary Disability	109
Table 16 Mathematics Descriptive Statistics by Primary Disability	117
Table 17 Reading Descriptive Statistics by Expanded Accommodation	125
Table 18 Writing Descriptive Statistics by Expanded Accommodation	129
Table 19 Mathematics Descriptive Statistics by Expanded Accommodation	133
Table 20 Scoring Rubric for Multiple-Choice Item Types	137
Table 21 Scoring Rubric for Constructed-Response Item Types	138
Table 22 Summary of Invalidations	139
Table 23 Breakdown of Invalidations Due to Test Examiners Marking Bubbles on Answer Document	140
Table 24 Writing Frequency Distributions of CR (6-Point) Items.....	142
Table 25 Mathematics Frequency Distributions of CR (6-Point) Items.....	144
Table 26 Reading Item Level Statistics With and Without Level of Independence	148
Table 27 Writing Item Level Statistics With and Without Level of Independence	156
Table 28 Mathematics Item Level Statistics With and Without Level of Independence	164
Table 29 Summary of <i>P</i> -values and Point-Biserial by Grade and Content Area Including Level of Independence.....	176
Table 30 Summary of <i>P</i> -values and Point-Biserial by Grade and Content Area Without Including Level of Independence.....	177
Table 31 Reading Expanded Benchmark Level Statistics, Ordered by Mean Difficulty (<i>P</i> -value).....	178
Table 32 Writing Expanded Benchmark Level Statistics, Ordered by Mean Difficulty (<i>P</i> -value).....	182

Table 33 Mathematics Expanded Benchmark Level Statistics, Ordered by Mean Difficulty (<i>P</i> -value).....	185
Table 34 Reading Grade 3 Raw Score Frequency Distributions.....	188
Table 35 Reading Grade 4 Raw Score Frequency Distributions.....	192
Table 36 Reading Grade 5 Raw Score Frequency Distributions.....	196
Table 37 Reading Grade 6 Raw Score Frequency Distributions.....	200
Table 38 Reading Grade 7 Raw Score Frequency Distributions.....	204
Table 39 Reading Grade 8 Raw Score Frequency Distributions.....	208
Table 40 Reading Grade 9 Raw Score Frequency Distributions.....	212
Table 41 Reading Grade 10 Raw Score Frequency Distributions.....	215
Table 42 Writing Grade 3 Raw Score Frequency Distributions.....	218
Table 43 Writing Grade 4 Raw Score Frequency Distributions.....	222
Table 44 Writing Grade 5 Raw Score Frequency Distributions.....	226
Table 45 Writing Grade 6 Raw Score Frequency Distributions.....	230
Table 46 Writing Grade 7 Raw Score Frequency Distributions.....	234
Table 47 Writing Grade 8 Raw Score Frequency Distributions.....	238
Table 48 Writing Grade 9 Raw Score Frequency Distributions.....	242
Table 49 Writing Grade 10 Raw Score Frequency Distributions.....	246
Table 50 Mathematics Grade 3 Raw Score Frequency Distributions.....	250
Table 51 Mathematics Grade 4 Raw Score Frequency Distributions.....	254
Table 52 Mathematics Grade 5 Raw Score Frequency Distributions.....	258
Table 53 Mathematics Grade 6 Raw Score Frequency Distributions.....	264
Table 54 Mathematics Grade 7 Raw Score Frequency Distributions.....	269
Table 55 Mathematics Grade 8 Raw Score Frequency Distributions.....	273
Table 56 Mathematics Grade 9 Raw Score Frequency Distributions.....	278
Table 57 Mathematics Grade 10 Raw Score Frequency Distributions.....	283
Table 58 Cut Scores and Percent of Students in Each Proficiency Level.....	288
Table 59 Total Group Statistics, Including Reliability.....	290
Table 60 Classification Consistency and Accuracy.....	291
Table 61 Level of Independence—Total Percentage by Level across All Items.....	292
Table 62 Reliability of Levels of Independence.....	293
Table 63 Percentages of Test Administrator Coding Errors.....	294
Table 64 Reading Average Level of Independence and Earned Proficiency Level.....	295
Table 65 Writing Average Level of Independence and Earned Proficiency Level.....	297
Table 66 Mathematics Average Level of Independence and Earned Proficiency Level.....	299
Table 67 Reading Longitudinal Total Group Means and Standard Deviations.....	301
Table 68 Writing Longitudinal Total Group Means and Standard Deviations.....	302
Table 69 Mathematics Longitudinal Total Group Means and Standard Deviations.....	303
Table 70 Reading Longitudinal Subgroup Participation.....	304
Table 71 Writing Longitudinal Subgroup Participation.....	320
Table 72 Mathematics Longitudinal Subgroup Participation.....	336

Table 73 Reading Longitudinal Summary of <i>P</i> -values	352
Table 74 Writing Longitudinal Summary of <i>P</i> -values	354
Table 75 Mathematics Longitudinal Summary of <i>P</i> -values	356
Table 76 Reading Longitudinal Summary of Point-Biserials	358
Table 77 Writing Longitudinal Summary of Point-Biserials	360
Table 78 Mathematics Longitudinal Summary of Point-Biserials	362
Table 79 Reading Longitudinal Summary of Impact Data.....	364
Table 80 Writing Longitudinal Summary of Impact Data.....	369
Table 81 Mathematics Longitudinal Summary of Impact Data.....	374

List of Figures

Figure 1 Total Number of Students Participating in CoAlt 2013-14 by Grade and Content	381
Figure 2 Percent of Participating Students by Coded Disability	382
Figure 3 Reading Percent of Students Utilizing Expanded Accommodations	383
Figure 4 Writing Percent of Students Utilizing Expanded Accommodations	384
Figure 5 Mathematics Percent of Students Utilizing Expanded Accommodations	385
Figure 6 Reading Mean Percent of Total Possible Score by Gender	386
Figure 7 Writing Mean as Percent of Total Possible Score by Gender	387
Figure 8 Mathematics Mean as Percent of Total Possible Score by Gender	388
Figure 9 Reading Mean as Percent of Total Possible Score by Race/Ethnicity	389
Figure 10 Writing Mean as Percent of Total Possible Score by Race/Ethnicity.....	390
Figure 11 Mathematics Mean as Percent of Total Possible Score by Race/Ethnicity	391
Figure 12 Reading Impact Data	392
Figure 13 Writing Impact Data.....	393
Figure 14 Mathematics Impact Data.....	394
Figure 15 Impact Data—Developing and Novice Combined.....	395
Figure 16 Total Number of Students Participating in CoAlt Reading 2008, 2009, 2010, 2011, 2012, 2013, and 2014	396
Figure 17 Total Number of Students Participating in CoAlt Writing 2008, 2009, 2010, 2011, 2012, 2013, and 2014	397
Figure 18 Total Number of Students Participating in CoAlt Mathematics 2007, 2008, 2009, 2010, 2011, 2012, 2013, and 2014.....	398
Figure 19 Mean Score as Percent of Total for Reading 2008, 2009, 2010, 2011, 2012, 2013, and 2014.....	399
Figure 20 Mean Score as Percent of Total for Writing 2008, 2009, 2010, 2011, 2012, 2013, and 2014.....	400
Figure 21 Mean Score as Percent of Total for Mathematics 2007, 2008, 2009, 2010, 2011, 2012, 2013, and 2014	401
Figure 22 Percent of Participating Students by Coded Disability Longitudinally for Reading	402
Figure 23 Percent of Participating Students by Coded Disability Longitudinally for Writing	403
Figure 24 Percent of Participating Students by Coded Disability Longitudinally for Mathematics	404

Acronyms and Abbreviations

<u>AERA</u>	American Educational Research Association
<u>APA</u>	American Psychological Association
<u>AYP</u>	Adequate Yearly Progress
<u>CDE</u>	Colorado Department of Education
<u>CE</u>	Critical Element of Peer Review
<u>CR</u>	Constructed-Response
<u>CoAlt</u>	Colorado Alternate Assessment
<u>CTB</u>	McGraw-Hill Education CTB
<u>ELL</u>	English Language Learner
<u>ESL</u>	English as a Second Language
<u>FEP</u>	Fluent English Proficient
<u>FERPA</u>	Family Education Rights & Privacy Act
<u>IDEA</u>	Individuals with Disabilities Education Act
<u>IEP</u>	Individualized Education Program
<u>LEP</u>	Limited English Proficient
<u>MA</u>	Mathematics
<u>MC</u>	Multiple-Choice
<u>NCLB</u>	No Child Left Behind Act
<u>NCME</u>	National Council on Measurement in Education
<u>NEP</u>	Not English Proficient
<u>PLD</u>	Performance Level Descriptor
<u>RD</u>	Reading
<u>SC</u>	Science
<u>SD</u>	Standard Deviation
<u>SEM</u>	Standard Error of Measurement
<u>TCAP</u>	Transitional Colorado Assessment Program
<u>USDOE</u>	United States Department of Education
<u>WR</u>	Writing

Executive Summary

The 2013–14 Colorado Alternate Assessment (CoAlt) Operational Technical Report documents the processes and procedures implemented in support of the 2013–14 spring administration of the CoAlt by McGraw-Hill Education CTB (CTB) and the Colorado Department of Education (CDE). The technical report shows how the processes and procedures were applied as well as how the results relate to the issues of validity and reliability, the *Standards for Educational and Psychological Testing* [American Educational Research Association (AERA), American Psychological Association (APA), & National Council on Measurement in Education (NCME), 1999], and the federal Peer Review process as detailed in the *Standards and Assessments Peer Review Guidance* (USDOE, 2007). Some primary findings presented in this technical report are summarized below.

Purpose: As succinctly stated in the CoAlt Examiner’s Manual Spring 2014 (CDE, 2014a), the purpose of the CoAlt is as follows:

The Colorado Alternate Assessment (CoAlt) is a standards-based assessment designed specifically for eligible students with significant cognitive disabilities and is meant to provide a picture of student performance to schools, districts, educators, parents, and the community. The primary purpose of the assessment program is to determine the level at which Colorado students meet the Expanded Benchmarks that are linked to the Colorado Model Content Standards in the content areas assessed. The data should be used to keep abreast of individual student progress toward attaining achievement in the content areas. (p. 1)

Administration: The administration of the 2013–14 CoAlt occurred from February 5, 2014 through March 14, 2014. A high level of security is maintained on all testing materials at all levels. For all content areas, each test administration occurs on an individual student basis where teachers/test examiners mark the student’s response and the level of independence at which the student performed. The assessment administration is not timed and can be conducted over several days in order to accommodate the students and minimize fatigue.

Student Population: The CDE provides an eligibility checklist to be evaluated by a student’s Individualized Education Program (IEP) team in order to determine whether the student should be assessed with the Transitional Colorado Assessment Program (TCAP) or the CoAlt. Within the context of the 2013–14 administration, as few as 518 (grade 9 Reading and Writing) and as many as 690 (grade 5 Writing) students participated in the CoAlt administration, compared to the 2012–13 administration where between 466 (grade 10 Reading and Science) and 684 (grade 4 Writing) students participated.

Operational Analyses: The CoAlt uses raw score reporting, incorporating both the content score and the level of independence with which a student answers an item to determine the total score for the item and ultimately the content area. Standard setting activities conducted in 2007 and 2008 (dependent on the content area) were based upon approximately the same items that are currently presented. The test forms include some item overages by standard in order to ensure that if items must be suppressed from scoring, a sufficient number of items will remain for each reported score. Items undergo classical item analyses yearly in order to ensure that the item performance is not dramatically altered from year to year, which could suggest item exposure or other issues that would raise concerns about item validity and year-to-year comparability of scores. Any item that displays problematic classical statistics or dramatic changes across years is carefully reviewed to determine the appropriateness of continuing to include the item in scoring and reporting. Within the context of the 2013–14 CoAlt administration, no items required suppression due to classical statistics or due to changes in

item performance over time. This report contains information regarding the statistics for each item and for the forms overall for both this administration and longitudinal comparisons.

Results: In general, longitudinal results indicate that the percentage of students with the highest proficiency levels, *Developing* and *Novice*, has remained generally stable for all content areas since the 2013–14 administration. Across all grade levels the average change in *Developing* and *Novice* combined was –1.01% for Reading, –1.28% for Writing, and –2.33% for Mathematics. The greatest increase was in Mathematics grade 4 with a 3.42% increase across the two administrations. The greatest decrease was in Writing grade 5 with a –8.62% decrease across the two administrations.

This report provides detailed information related to the items and issues addressed above and demonstrates that the processes and procedures applied in the CoAlt adhered to appropriate standards and practices of educational assessment. Ultimately, this report serves to document evidence that valid inferences about Colorado students assessed with the CoAlt can be made from the CoAlt scoring and reporting.

Overview

Introduction

This document describes the CoAlt with a specific focus on the results of the 2013–14 assessment year. The CoAlt is an alternate standards-based assessment designed for eligible students with significant cognitive disabilities (CDE, 2014b).

The 2013–14 CoAlt administration assessed students in Reading (RD), Writing (WR), and Mathematics (MA) at grades 3–10. For all grade levels and content areas the forms and administration guidelines were consistent with the 2012–13 CoAlt. The testing window opened February 5, 2014 for all grade levels and closed March 14, 2014.

The work involved in the development of the curriculum standards, test forms, administration, scoring, standard setting, and analyses are all important steps in the process of developing a valid assessment system regardless of the format of the assessment (Barton, 2007). This document serves to capture a small portion of the enormous amount of time and effort devoted to the CoAlt in relation to the importance, reliability, and validity of the assessment as part of the Colorado assessment system. From the American Educational Research Association (AERA), American Psychological Association (APA), & National Council on Measurement in Education (NCME) *Standards for Educational and Psychological Testing* (1999), guidance is given in Standard 3.6 that is of particular relevance to alternate assessments and the uniqueness of the “intended test takers.” It reads as follows:

The type of items, the response formats, scoring procedures, and test administration procedures should be selected based on the purposes of the test, the domain to be measured, and the intended test takers. To the extent possible, test content should be chosen to ensure that intended inferences from test scores are equally valid for members of different groups of test takers. The test review process should include empirical analyses and, when appropriate, the use of expert judges to review items and response formats. The qualifications, relevant experiences, and demographic characteristics of expert judges should also be documented. (p. 44)

The entire CoAlt process pays close attention to each of these directions.

In addition to being guided by the *Standards for Educational and Psychological Testing* (AERA, APA, & NCME, 1999), guidance from the *Standards and Assessments Peer Review Guidance*

(USDOE, 2007) is beneficial. This technical report provides evidence toward a variety of Critical Elements of Peer Review (CE) as part of the guidance for Peer Review. The majority of this document covers evidence in Section 4: A system of assessment with high quality from the *Standards and Assessments Peer Review Guidance* (USDOE, 2007), including CEs 4.1 (validity), 4.2 (reliability), 4.3 (fairness and accessibility), 4.5 (administration, scoring, analysis, and reporting), and 4.6 (accommodations). For Critical Elements in other sections of the *Standards and Assessments Peer Review Guidance* (USDOE, 2007), Appendix A details the chapter in the *Standards and Assessments Peer Review Guidance* (USDOE, 2007) and the corresponding section in this technical report.

Purpose of the CoAlt

In the 2005–06 school year, the federal No Child Left Behind Act (NCLB) required all states to test all students in Reading and Mathematics in grades 3 through 8 and once in high school. Based on the NCLB legislation, student performance, reported in terms of proficiency categories, is used to determine the Adequate Yearly Progress (AYP) of students at the school, district, and state levels. Beginning in the 2007–08 school year, states were additionally required to administer Science assessments at least once in grades 3–5, once in grades 6–9, and once in grades 10–12.

The CoAlt has historically been administered in Reading, Mathematics, and Writing in grades 3–10 and in Science in grades 5, 8, and 10. In the 2013–14 academic year, Science was not administered as part of the CoAlt. The addition of the Writing content area is critical within the state of Colorado, although it is not required by the federal government within the NCLB legislation. Reading and Writing are treated as separate content areas, are assessed with different items, have different Performance Level Descriptors (PLDs), and maintain separate scoring and reporting.

The 2004 reauthorization of the Individuals with Disabilities Education Act (IDEA) requires participation of students with disabilities in state- and district-wide assessments. Specifically, IDEA stipulates in section 612 part A, number 16, “All children with disabilities are included in all general State and district wide assessment programs, including assessments described under section 1111 of the Elementary and Secondary Education Act of 1965, with appropriate accommodations and alternate assessments where necessary and as indicated in their respective individualized education programs” (USDOE, 2004). All decisions regarding the participation of a student with disabilities in the TCAP or CoAlt assessments must be addressed by the student’s Individualized Education Program (IEP) team, including the parent as an equal participant. The CoAlt is designed to meet the requirements of the NCLB accountability goals and IDEA and to provide students, parents, teachers, and schools with information about how students are progressing in relation to the Colorado Model Content Standards and Expanded Benchmarks, as summarized in the CoAlt Assessment Frameworks (CDE, 2014a).

Use of the Assessment Information

The CoAlt provides achievement information serving multiple purposes to schools, teachers, parents, and students. In addition to providing results for use in state and federal accountability programs, CoAlt results may be used as one of many tools to provide parents and guardians with information about the academic performances of their children; to help inform school district and school level decision making related to student learning; to identify grade-level curricular strengths and weaknesses; and to identify curricular areas where additional diagnoses are indicated in order to prescribe a course of intervention or enhancement, corrective instruction, or specialized services.

In addition to the above mentioned uses, additional interventions that should be used only in conjunction with other related achievement information include identifying the level and range of achievement in a class or grade level and informing placement, retention, and promotion decisions for individual students.

Part 1: Standards

Alternate assessment standards were developed for CoAlt in accordance with NCLB regulations, which require that the content of alternate assessments be comparable to that of regular state assessments, and must show clear linkage to the content standards for the grade in which the student is enrolled. According to NCLB, alternate assessment standards may cover a more narrow range of content within a given content area, and grade-level content may be reduced in complexity (USDOE, 2007).

The 2013–14 CoAlt forms consist of custom multiple-choice (MC) and constructed-response (CR) performance task items measuring skills associated with the Colorado Model Content Standards and associated assessment frameworks for Reading, Writing, and Mathematics. The Colorado Model Content Standards consist of a set of standards that are found across grades within a given content area. For each standard, the knowledge and skills students are expected to acquire at a given grade level are described by Benchmarks that vary across grade spans: K–4, 5–8, and 9–12. The Assessment Frameworks further describe the Assessment Objectives within each Benchmark by grade assessed. The CoAlt uses the Expanded Benchmarks, which are based on the Colorado Model Content Standards. These are the basis for the CoAlt Assessment Frameworks, which describe Critical Concepts (like the Benchmarks) and Assessment Objectives. The CoAlt Assessment Frameworks are available online at the following website:

http://www.cde.state.co.us/sites/default/files/documents/assessment/documents/coalt/coalt_assessment_framework.pdf.

Part 2: Test Development

The items for all grade levels and content areas were written by Development staff from CTB/McGraw-Hill (CTB) with guidance and input from the Colorado Department of Education (CDE). The tests consist of custom MC and CR items measuring skills associated with the CoAlt Assessment Frameworks. Information about the level of student independence demonstrated for each item is also gathered during the assessment administration. The test forms include some item overages by standard similar to the TCAP approach, thus providing ample alignment to the Colorado Model Content Standards even if some items do not perform to expectation and require suppression.¹

Test Design

The test items appear in a separate book for each grade level and content area. The exception is that the Reading and Writing content areas are contained within a single test book as two separate and clearly delineated sections. Tables 1–3 illustrate the test design (blueprints) by content area, where the total number of items and maximum points are provided per standard by grade and content area. Further illustration of the breakdown of the total number of items, the number of MC (3-point) and CR (6-point) items, and the maximum number of score points possible on each form appears in Table 4.

¹ Across all grade levels and content areas, no items were suppressed from scoring for the 2013–14 CoAlt administration.

Within the context of the CoAlt, MC items are worth up to 3 points and CR items are worth up to 6 points in order to incorporate the level of independence with which the student responds to the item into the item scoring. There is a separate rubric for each item type, and the rubrics are applicable across grade levels and content areas. The section on Scoring in Part 5 and Tables 26 and 27 provide more reference to the application of the scoring rules and logic. These scoring rubrics incorporate the level of student independence or assistance received for each item and each score level therein. This type of scoring was developed in an effort to both recognize and capture how students taking the CoAlt actually respond, their level of content knowledge, and the amount of support they need during the test administration—apart from typical expanded accommodations.² This type of scaffolded scoring rubric is often used in alternate assessments. According to Quenemoen, Perie, and Kearns (2010), 26 states use a scoring rubric that incorporates level of assistance (either with a multi-dimensional or scaffolded design). In addition, Almond and Case (2004) note that such a scoring approach, where level of assistance (independence) is captured, extends beyond scoring accuracy to provide additional and appropriate data for students with significant cognitive disabilities who are administered performance-type assessments.

Item Review and Test Fairness

All items are expected to be fair for all examinees. Various procedures are employed to review item fairness, also referred to as bias. Once the items are developed, they must go through a series of reviews and analyses prior to being selected as part of the item pool. A content and bias review has two purposes: to ensure that the items are grade-level appropriate and to ensure that any sensitivity issues are identified and addressed. Grade-level appropriateness is evaluated by grade-level experts who possess the on-the-ground knowledge of how content is taught in the classroom. Sensitivity reviews ensure that items are free of offensive, disturbing, or inappropriate language or content.

Content reviews and sensitivity and bias reviews were conducted on all items by internal and external experts. The Steering Committee reviewed all items before the assessment administration. The review was led by the CDE. CTB participated in the review process, under the direction of the CDE, by providing papers for the event and staff from the Project Development Team for instruction and interpretation.

Due to the small sample sizes, statistical bias analyses were not performed as part of the development, review, and fairness efforts. However, descriptions about the test level performances of various subgroups, including gender, ethnicity, English Language Learner (ELL) status, Free/Reduced price lunch eligibility, primary disability, and expanded accommodation, are described in detail in this report in Part 3: Description of the Population and Part 7: Analyses and Results.

Item Selection

Item selection was completed by content editors at CTB and reviewed and approved by the CDE. Items were selected to fulfill the test blueprint. The primary criterion for the selection of items was to meet the content specifications represented by test blueprints. Any future operational test item selections will also incorporate the statistical research guidelines and

² The CDE refers to the accommodations used within the context of the CoAlt as expanded accommodations, due to the fact that the CoAlt already has some accommodations built into the administration (such as unlimited time and individual administration). The term expanded accommodations is used here and throughout CDE references to the CoAlt accommodations in order to differentiate the CoAlt accommodations from those used with the TCAP assessment.

operational analyses results such that selected items will reflect the best content and statistical characteristics. Such characteristics are described in Part 7: Analyses and Results of this report.

Part 3: Description of the Population

Description of Students

Students assessed with the CoAlt typically have significant limitations in intellectual functioning, in adaptive behavior, and in academic functioning expressed in conceptual, social, and practical adaptive skills. Often these students are identified as having a Cognitive Disability; however, students with other types of disabilities may also satisfy the criteria for participation in the CoAlt.

Student Eligibility Criteria

When determining whether a student who is eligible for special education services should participate in the CoAlt or the TCAP, the student's IEP team must determine that the student meets the criteria from the Alternate Assessment Eligibility Criteria Worksheet (CDE, 2011a). When the IEP team concurs that the CoAlt is the most appropriate assessment, then the CoAlt should be administered as opposed to the TCAP in order to provide a meaningful evaluation of the student's current academic achievement. As stated on the CDE website, within the Eligibility Worksheet:

The IEP Team is responsible to determine that the student:

- 1) Meets eligibility as a student with a significant cognitive disability (Intellectual Disability).
- 2) Will access the general curriculum based on alternate academic achievement standards (Colorado Academic Standards/Extended Evidence Outcomes).
- 3) Will participate in alternate assessment based on alternate academic achievement standards (CoAlt, 11th Grade Alternate for Colorado ACT, and alternate classroom/district assessments).

Each year, the IEP Team will consider the academic achievement standard and assessments for each content area separately.

The CDE provides an Alternate Assessment Eligibility Criteria Worksheet to be evaluated by a student's IEP team in order to determine whether the student should be assessed with the TCAP or CoAlt. The Alternate Assessment Eligibility Criteria Worksheet can be found at the following website:

http://www.cde.state.co.us/sites/default/files/documents/cdesped/download/pdf/eligibilitycriteria_worksheet_alternateassessment.pdf.

Population Characteristics

It is important to understand the types of students participating in the CoAlt. It is anticipated that the characteristics and resulting performance of students who participate will provide clarity about which students benefit the most from the CoAlt.

Demographic data, such as gender and ethnicity information, are reported in Tables 5–7.³ Across grades and content areas, as few as 518 (grade 9 Reading and Writing) and as many as 690 (grade 5 Writing) students participated in the 2013–14 CoAlt administration. As can be seen

³ Subgroups with fewer than 16 students have only sample sizes reported (no statistics are calculated or reported) in accordance with Family Education Rights & Privacy Act (FERPA) and CO state regulations. This rule is instituted throughout all tables, figures, and reporting.

in Figure 1, the total number of participating students is highest for Writing and Mathematics in grade 5 and is highest for Reading in grade 4. In all grades and across all content areas, the population of students is primarily male, with the percentages of male students ranging from 60.44% (grade 8 Mathematics) to 68.61% (grade 3 Mathematics). Additionally, the majority of students are of White ethnicity, with the percentage of White students ranging from 45.32% (grade 4 Writing) to 52.99% (grade 10 Mathematics).

Additional descriptive information includes ELL status, reported in Tables 8–10, for each content area. The tables include information related to Language Proficiency [Fluent English Proficient (FEP), Limited English Proficient (LEP), Not English Proficient (NEP), Primary Home Language Other Than English (PHLOTE), Former ELL (FELL) and Not Applicable (native English speaking)] and English Language Learner-Bilingual/English as a Second Language (ESL) status (No, Yes, Monitored in Year 1, Monitored in Year 2, Exited in Year 3+, and Choice). Across grades and content areas, the dominant classification is that Language Proficiency status is “Not Applicable,” with the range being a low of 78.63% (grade 6 Reading) to 84.75% (grade 10 Mathematics). Nearly all students (roughly 99% across all content areas and grade levels), indicate ELL status for Bilingual students as “No.” The majority of students, ranging from 79.39% (grade 6 Reading) to 85.66% (grade 10 Mathematics), indicate ELL status for ESL students as “No.”

Information is also collected regarding students’ eligibility for Free and Reduced Price Lunch programs and is reported in Tables 11–13 for each content area respectively. Across grades and content areas, most students are either eligible for a Free Lunch as opposed to a Reduced Price Lunch or they are not eligible. The percentage of students eligible for a Free Lunch ranges from 40.31% (grade 9 Mathematics) to 53.22% (grade 4 Writing). A small percentage of students are eligible for a Reduced Price Lunch, ranging from 7.11% (grade 4 Reading) to 11.13% (grade 9 Mathematics). The percentage of students not eligible for either program ranges from a low of 39.33% (grade 4 Writing) to 48.18% (grade 9 Mathematics).

Students’ primary disability information is categorized in Tables 14–16 by grade and content area. Within all content areas “Multiple Disabilities,” “Limited Intellectual Capacity,” and “Autism” are the most common primary disabilities indicated. Figure 2 also captures the data to more easily illustrate the predominant primary disabilities.

Expanded accommodations provided to students during the CoAlt assessment are reported in Tables 17–19. While the test is a one-on-one administration with no time limits, there are a variety of additional expanded accommodations teachers/test examiners utilize to assure accessibility by students to the test items. It is important to note that a given student can have more than one expanded accommodation, further, the percentages reported in Tables 17–19 are based on the total population. Across all grade levels and content areas, no expanded accommodations are provided to the vast majority of students for them to access the test items. This is most strikingly illustrated in Figures 3–5. There are between 82.24% (grade 5 Mathematics) to 91.02% (grade 8 Reading) of students provided no expanded accommodations. For those students requiring additional expanded accommodations, Assistive Technology is among the most commonly used but the typical expanded accommodation varies by content area. Across all grades and content areas, the most common expanded accommodation used for a grade level was always less than 7%.

Part 4: Test Administration

For all content areas, each test is administered on an individual student basis where teachers/test examiners mark the student’s response and the level of independence at which the student performed. Examiners mark two ratings per item: actual student raw response and

level of independence in the Test Protocol;⁴ these ratings are later transferred by the test examiner to the scannable answer document.⁵ The administration is guided by the Item Presentation Protocol, found at the following link:

http://www.cde.state.co.us/sites/default/files/documents/assessment/documents/coalt/csapa_item_pres_protocol.pdf. The assessment can be administered over several days in order to accommodate the students and minimize fatigue. It is expected that all students be presented with and attempt all items for each content area.

Collecting the information about a student's level of independence (or engagement as defined by the Item Presentation and Level of Independence Protocols) and the amount of assistance provided by teachers provides specific data on the standardization of the administration of the assessment, the level at which students were able to respond independently, and specific data to help train examiners to administer the assessment in a supportive and valid environment.

Teacher/Test Examiner Training

District and School Assessment Coordinators and Special Education teachers convened in various locations around the state for a train-the-trainer model of training on the administration of the CoAlt. Training was provided by the Assessment Unit from the CDE with support from CTB. The participants were given sample items, the Item Presentation Protocol, and the Level of Independence Protocol. (All participants signed security agreements prior to participation.) The training format included a PowerPoint™ presentation, video training clips of examiners administering sample items to students, small and large group discussions, and question/answer sessions. The participants were responsible for the training of the CoAlt test examiners within their districts and schools.

Additional Training

As the results of the operational administrations are evaluated, continuous improvements in administration training will be ongoing. The Assessment Unit of the CDE will continue to provide staff development and training on the operational administration and scoring of the CoAlt each year.

Part 5: Scoring

Scoring Rubrics

Two scoring rubrics are used to collect student responses and provide item-by-item scores. One rubric is applicable to MC items and this rubric appears in Table 20. The second rubric is applicable to CR items and appears in Table 21. Both rubrics are applicable for any grade level or content area assessed by the CoAlt. These scoring rubrics incorporate the level of student independence or assistance received for each item and each score level therein. This type of scoring was developed in an effort to both recognize and capture how students taking the CoAlt actually respond, their level of content knowledge and the amount of support they need during the test administration apart from typical accommodations. This type of scaffolded scoring rubric

⁴ The CoAlt test books are referred to as Test Protocols. The Test Protocol contains information for the test examiner to utilize during the assessment administration, such as: directions for item administration and preparation required a copy of the item as viewed by the student in the student materials, item protocols, and an area to mark both student response and the level of independence with which the student answered the item.

⁵ More information regarding scoring, marking student responses, and determining level of independence can be found in Part 5 of this report.

is often used in alternate assessments. According to Quenemoen, Perie, and Kearns (2010), 26 states use a scoring rubric that incorporates level of assistance (either with a multi-dimensional or scaffolded design). In addition, Almond and Case (2004) note that such a scoring approach, where level of assistance (independence) is captured, extends beyond scoring accuracy to provide additional and appropriate data for students with significant cognitive disabilities who are administered performance-type assessments.

Within the context of the test administration, the test examiner is to use the Test Protocol to mark the student responses. The test examiner marks directly within the Test Protocol the student response to the test question (A, B, C, D, E, or F) as well as the level of independence with which the student responded to the test question (Levels 1–4). Once the assessment is completed, the test examiner records the student responses and level of independence for each test question on the scannable answer document. Note that test examiners are not responsible for applying the scoring rubrics or scoring the items.

For all item types, the test examiner marks the student response (A, B, C, D, E, or F) on the answer document in the “student response” column. On the CoAlt, there are never more than four response options, though there can be as few as two. The following examples reflect the situation in which all possible bubbles are utilized. Answer choices A through D are actual responses that the student could provide in response to the test question (or indications by the teacher of the response given by the student in the case of CR items) and are detailed within the Test Protocol. Answer choice E allows the test examiner to indicate that the student has provided a response that is not reflected by answer choices A, B, C, or D. Answer choice F allows the test examiner to indicate that the student has provided no response to the test question. In the case that there are fewer options possible the selections would diminish in range (going from A to D as opposed to A to F for example). The number of answer choices available can vary by item and content area. Each item clearly delineates the possible/valid responses both within the Test Protocol and on the scannable answer document.

Level of Independence

Additionally, the test examiner marks the level of independence with which the student responds to each test question. There are four levels of independence captured within the context of the CoAlt. The Level of Independence Protocol, available at http://www.cde.state.co.us/sites/default/files/documents/assessment/documents/coalt/csapa_item_pres_protocol.pdf, clearly defines each level. Test examiners are required to move to the next level if the student is unable to respond to or complete the task at the higher level of independence; however, incorrect answers are captured by the actual student response code and do not necessarily indicate that more assistance is required. Level 4 indicates complete independence. The student responds to the test question without assistance from the test examiner. The student is fully engaged and performs the task independently and does not require assistance, or at most requires refocusing. Level 3 indicates a partially independent response. The student responds to the test question with a partial physical, verbal, or gestural prompt. The student becomes engaged and is able to perform the task without being shown/told the answer. Level 2 indicates a limited independent response. The student requires a full physical prompt in order to respond to the test question. The student is able to perform the task only after being shown or told what the answer is. Level 1 indicates that the student did not respond to the test question. This level is marked only when the student is unable to respond/complete the task even after being shown/told what the answer is.

Multiple-Choice Item Types

Table 20 describes the scoring rubric for all MC item types. These are items where students select their answer among options, such that the student response is evaluated as correct or incorrect (dichotomous) and then, depending upon the level of independence, a final score is provided. For example, the examiner marks the response option chosen/demonstrated by the student (A, B, C, D, E, or F), and if the student received no help (level of independence is “Independent”), the examiner would mark Level 4 for Independence. If the response option selection is correct, the student would receive a score of “3” on that item. If the option is incorrect, the student would receive a score of “0.” However, the information about level of independence is still collected to provide item and test level data on the amount of assistance students receive or do not receive when their level of content knowledge is incorrect. This is important information for policy development to ensure examiners are trained and able to assist students accurately without over assisting, to provide adequate support to students while allowing opportunities to grow independently as well as to provide a clearer evaluation of what students really know and can do academically. (See the Item Presentation and the Level of Independence Protocols for additional information.)

Constructed-Response Item Types

The CoAlt also includes CR item types where student responses reflect multiple steps or where students provide multiple responses. The rubric for CR item types is found in Table 21. For multiple responses, the student receives up to 2 points for each correct response. This is akin to a 0–2 rubric. Thus it is possible for students to get full credit for a correct response (2 points), partial credit for a partially correct response (1 point), or no credit for an incorrect response (0 points). Within the context of the CR items, Level of Independence points are awarded as 4 points for a fully independent response where the student performs the task without assistance (Independent), 2 points for a partially independent response where the student performs the task with a partial physical, verbal, or gestural prompt from the test examiner (Partial), and 0 points for a limited independent response where the student performs the task with a full physical prompt from the test examiner (Limited).

The CR rubric and multi-step/multiple response item type is more clearly illustrated by an example. (Please note that this is only an example and not an actual item description.) An item might require the student to correctly group positive and negative numbers. The test examiner marks in the Test Protocol the frequency of numbers correctly identified, where the response options reflect: A) 5 out of 5, B) 3 or 4 out of 5, C) 2 or less out of 5, D) other, E) no response. Within this context, answer choice A is fully correct (2 points), answer choice B is partially correct (1 point), answer choice C is incorrect or does not illustrate sufficient mastery of the concept/skill being measured (0 points), and answer choices D and E are incorrect responses (0 points). Combining point values 0, 1, and 2 with the level of independence displayed by the student in responding, where 4 points are awarded for an Independent response, 2 points for a Partial Independence response, and 0 points for a Limited Independent response, result in the rubric in Table 21.

A student with a correct response (A: 5 out of 5) earns 2 points for the correct response. If the item was answered independently (Independent), the student would earn 4 points, resulting in a total item score of 6 points. If the student answered with a partial physical, verbal, or gestural prompt (Partial Independence), the student would earn 2 points, for a total of 4 points. If the student answered with a full physical prompt (Limited Independence), the student would earn 0 independent points, resulting in a total item score of 2 points.

A student with a partially correct response (B: 3 or 4 out of 5) earns 1 point for the partially correct response. If the item was answered independently (Independent), the student would earn 4 points, resulting in a total item score of 5 points. If the student answered with a partial physical, verbal, or gestural prompt (Partial Independence), the student would earn 2 points, resulting in a total item score of 3 points. If the student answered with a full physical prompt (Limited Independence), earning 0 independence points, then the item score is 1.

A student providing a response corresponding to answer choices C (incorrect, 2 or less out of 5), D (incorrect, other), or E (no response) will receive 0 points for the item regardless of their level of independence. However, the test examiner will still mark the level of independence with which the student responded in the Test Protocol and ultimately within the scannable answer document.

The scoring rules are instituted automatically by computer, utilizing the scannable answer documents, based upon the test examiner's coded responses for all item types; meaning, all items are designed such that the examiner bubbles the student responses and level of independence as captured in the Test Protocol onto a scannable answer sheet, from which scoring programs assign item-by-item scores. Examiners are not responsible for applying the scoring rubrics appearing in Tables 20 and 21; rather examiners grid the appropriate student response for each item as well as the level of independence demonstrated by the student when responding to each item individually.

Score Validation

All students participating in the operational administration were scored. However, specific validation and logic rules are applied to the data to ensure each student's score is based on a valid set of scored items. It is critical that the information reported is trustworthy. Without valid and therefore trustworthy data, valid conclusions and interpretations are not possible. Thus, there are safeguards in place to assure that reported data are valid, such that appropriate decisions can be made. For example, when a student's test is indicated as invalid by the examiner via a specific bubble on the answer document or if a student's response array includes 15% or more items that are flagged, the student does not receive a score. Student items are flagged if item scores are out of range (beyond the maximum value), invalid or illogical (such as a level of independence equal to 1 "no response" and a correct answer marked), items with multiple marks (i.e., more than one response option or level of independence bubbled), items with an incomplete response (either the response option OR level of independence are not marked), or when both the response option and level of independence are omitted (all items must be attempted and documented).

A summary of the percentages of invalid test scores due to the 15% rule or due to examiner bubbling of the "invalid" bubble on a student's answer document is located in Table 22. In Table 22, it is illustrated that between 91.84% (grade 9 Reading) to 96.50% (grade 5 Writing) of responses were valid for scoring, reporting, and data summary. Table 23 provides further details about the types of bubbles available to examiners for test score invalidation and the frequency with which they were used on the CoAlt. The most common reasons for invalidation were "Parental Refusal", "Test Not Completed", and "Taking TCAP Assessment".

Part 6: Standard Setting

Student performance on the CoAlt is described in terms of proficiency levels. The purpose of setting standards on a test is to enhance its validity by increasing the interpretability of students' scores. There were two distinct standard setting activities for the CSAPA. (At the time of the standard setting activities, the CoAlt was named the Colorado Student Assessment Program

Alternate, or CSAPA.) The first occurred in 2007 for the Mathematics and Science (grade 10 only) content areas. Specific details of this standard setting are contained within the standard setting technical report available from the CDE entitled *Standard Setting Technical Report 2007 for Grades 3–10 Mathematics and Grade 10 Science* (CTB/McGraw-Hill, 2007). The second occurred in 2008 for the Reading, Writing, and Science⁶ content areas for all grades. Specific details of this standard setting are contained within the standard setting technical report available from the CDE entitled *Standard Setting Technical Report 2008 for Grades 3–10 Reading, Grades 3–10 Writing, and Grades 5, 8, and 10 Science* (CTB/McGraw-Hill, 2008). The purpose of each standard setting was to identify cut scores that would separate students into five proficiency levels: *Inconclusive*, *Exploring*, *Emerging*, *Developing*, and *Novice*, with *Novice* representing the highest level of achievement.

It is important to note that the 2007 standard setting included Science grade 10, and cut scores were developed at that time. However, when the PLDs were developed for Science grades 5 and 8 for the 2008 administration, it was determined that the existing grade 10 PLDs were not congruent with the grades 5 and 8 PLDs. As such, the grade 10 PLDs were revised and a cut score review was undertaken for grade 10 within the context of the 2008 standard setting. Within the context of the cut score review (more detail can be found within the *Standard Setting Technical Report 2008 for Grades 3–10 Reading, Grades 3–10 Writing, and Grades 5, 8, and 10 Science* (CTB/McGraw-Hill, 2008)), it was determined that the grade 10 cut scores should be revised. Thus, the cut scores for Science grade 10 were new in 2008 and comparisons to 2007 data are not valid.

Recommended cut scores defining *Inconclusive*, *Exploring*, *Emerging*, *Developing*, and *Novice* were developed via Profile Sorting procedures, which were accompanied by a Contrasting Groups Survey administered to test examiners during the testing window. Live CSAPA data for all valid⁷ students were included in the Profile Sorting procedure. Standard setting participants sorted response profiles into proficiency levels by reflecting their judgments on the content-specific performance characterized by each profile.

Each standard setting was divided into three phases. In the first phase of the standard setting, Colorado special educators of students tested by the CSAPA were invited to participate in a modified Contrasting Groups study (Livingston & Zieky, 1982), in which they rated each of their students into one of the five proficiency levels, by content area.

In the second phase of the standard setting, a committee of educators from across the state of Colorado convened and engaged in a profile sorting study (Jaeger, 1995). During the CSAPA Profile Sorting workshop, participants examined scored response vectors (student profiles) and classified them into the five proficiency levels.

In the third phase of the standard setting, the participants at the CSAPA Profile Sorting workshop convened for synthesis discussions to review the results from both the modified Contrasting Groups study and the profile sorting study. A separate synthesis discussion was held for each content area. The participants identified trends in the data and recommended changes in the cut scores to promote cross-grade articulation within a content area. The impact data (percentages within each proficiency level) and cut scores approved by the CDE and applied to the 2013–14 data are shown in Table 58. More information about the cut scores and impact data can be found later in this report in Part 7: Analyses and Results—Proficiency Level Data.

⁶ Due to modifications to the Performance Level Descriptors, the cut scores for Science grade 10 were reviewed and revised within the context of the 2008 standard setting. For more information please see the 2008 standard setting technical report, available from the CDE.

⁷ Valid cases were defined previously in Part 5: Scoring—Score Validation.

Part 7: Analyses and Results

This section describes the item and total test level statistics calculated and analyzed along with the results thereof. Due to the small sample sizes at each grade, only raw score statistics were calculated. These include raw scores at the total test level and at each standard. No scaling of scores was conducted. Furthermore, because the same test form is used each year, no equating was or will be conducted on these or future operational CoAlt items. This requires reliance on raw score and classical test statistics.

Item Level Statistics

Item statistics were reviewed for all content areas in order to ensure that items contributing to operational scores were appropriate. Items were flagged for intensive review based on the following statistical characteristics: 1) if the p -value was less than 0.30, 2) if the point-biserial value was less than 0.15, and 3) if more than 5% of students omitted an item. Additionally, items were flagged for intensive review if the point-biserial value for a distractor was positive, and if the p -value for the item was greater than 0.95. Each item's frequency distribution (number of students at each score level) as well as each item's overall p -value (proportion of students choosing the correct answer) and point-biserial item-test correlation (how correlated each individual item is with the test as a whole), were reviewed and results are presented in Tables 26–28 and discussed below.

The frequency distribution for each CR item in Writing and Mathematics is found in Tables 24–25,⁸ where the number of students scoring at each score level for all 6-point items is illustrated. Interestingly, most CR items illustrate similar distributions, such that the majority of students obtain either the minimum (0 points) or the maximum (6 points) score. In general, the exception to this is a few items in most grade levels where there were also a high proportion of students scoring 5 points. This is likely reflective of the diversity of the population of students taking the CoAlt assessment.

Due to the nature of the rubrics, where level of independence weights each student's score, data analyses were conducted in two working sets: The weighted set (with level of independence) based on both student response and level of independence (data as received and ultimately used for operational scoring and reporting), and the non-weighted set (without level of independence) based on the transformation of all MC item scores of 0–2 as "0" and all scores of 3 as "1" for MC items such that only fully independent student scores are counted correct, and all CR item scores of 0, 1, 3, and 5 as "0" and 2, 4, and 6 as "1" for all CR items scored on the 6-point rubric. The purpose for removing the level of independence information from the data is to provide information about content-only performance apart from prompting or examiner-provided assistance. Additionally, classical item analysis indices typically assume that the item score is related only to item performance and not any additional information (Gulliksen, 1950).

Item Difficulty (p -values)

Typically in traditional assessments, and as seen in similar alternate assessments, p -values range between 0.30 and 0.90. Items with p -values less than 0.30 are considered more difficult, as less than 30% of the students are getting the correct answer, while p -values greater than 0.90 indicate a fairly easy item. Sometimes the lower bound of p -values can drop below 0.30. Those items should be reviewed in light of content to ensure the difficulty is due only to the content and skill assessed and not due to some illogic within the item. Items that are unduly easy, or above 0.90, should be reviewed in light of content as well and whether or not

⁸ There are no 6-point CR items in Reading as illustrated in Table 4.

the item is providing additive information about students' skills. If the items are too easy, they are typically replaced by items that better discriminate between students who do or do not have certain skills. These approaches make for efficient use of test length and administration time. Additionally, mean p -values by grade level should be approximately 0.50 in order to maximize the validity of the assessments (Gulliksen, 1950).

The CoAlt p -values are stable across grades and content areas for the group as a whole. Tables 26–28 illustrate the item level data for each content area respectively. The data are presented both weighted—with level of independence, and unweighted—without level of independence. Table 29 provides a summary including the minimum, mean, and maximum p -values for each grade level and content area with the level of independence included in the scoring, as is used in operational scoring and reporting. The mean p -values range from 0.46 (grade 10 Mathematics) to 0.62⁹ (grade 3 Mathematics), with a mean of 0.54. Table 30 provides a summary without including the level of independence. The mean p -values range from 0.40 (grade 10 Mathematics) to 0.60 (grade 6 Reading), with a mean of 0.51. In general, the mean p -values across content areas are around the mean difficulty of 0.50 as suggested by Gulliksen (1950).

Weighted (with level of independence)

When the data are weighted by level of independence, the p -values of Reading items range from 0.23¹⁰ (grade 5) to 0.87¹¹ (grade 6). There are a total of 20 Reading items with p -values below 0.30, including six items with a p -value below 0.25. The grade 3 items with a 0.23 and 0.24 p -values measures students' ability to demonstrate knowledge that various texts have different purposes. The grade 4 item with a 0.24 p -value measures students' ability to use a variety of strategies to make meaning out of text. The grade 5 item with a 0.23 p -value measures students' ability to demonstrate understanding of beginning principles of phonics. The grade 7 item with a 0.23 p -value measures students' ability to make connections to reading passages. The grade 7 item with a 0.25 p -value measures students' ability to demonstrate knowledge that various texts have different purposes. The mean p -value by grade-level ranges from a low of 0.50 (grade 10) to a high of 0.61 (grade 6), and the mean p -value across all Reading items is 0.55.

The p -values of Writing items range from 0.17 (grade 10) to 0.83¹² (grade 8). There are a total of 18 Writing items with p -values below 0.30, including four items with p -values below 0.25. The grade 4 item with a 0.18 p -value measures students' ability to apply elements of writing through appropriate word usage. The grade 5 item with a 0.22 p -value, the grade 7 item with a 0.21 p -value, and the grade 10 item with a 0.17 p -value measure students' ability to edit a written product using legible handwriting/word processor for publication. The mean p -value, by grade level, ranges from a low of 0.50 (grade 4) to 0.59 (grade 6). The mean p -value across all Writing items is 0.54.

The p -values of Mathematics items range from 0.09 (grade 10) to 0.88 (grade 3). There are a total of 22 Mathematics items with p -values below 0.30, including 13 items with p -values below 0.25. There is one grade 4 item with a 0.12 p -value and one grade 7 item with a 0.13 p -value. There is one item in grade 8 with a p -value of 0.23 and one item with a p -value of 0.25¹³. There are three grade 9 items with p -values less than 0.25; one item with a p -value of 0.18, one item with a p -value of 0.23; one item with a p -value of 0.22. There are six grade 10 items with p -

⁹ There are two values of 0.62; however, the grade 3 value of 0.619 is lower.

¹⁰ There are three values of 0.23; however, the grade 5 value of 0.231 is the lowest.

¹¹ There are two values of 0.87; however, the grade 6 value of 0.869 is higher.

¹² There are four values of 0.83; however, the grade 10 value of 0.83 is the highest.

¹³ There is one item with a rounded p -value of 0.25; however, the unrounded p -value is 0.2497.

values less than 0.25; two items with a p -value of 0.20, one item with a p -value of 0.24, one item with a p -value of 0.09, and two items with a p -value of 0.19. These items measure a variety of content skills, and for purposes of brevity, the content measured by each individual item is not detailed. The mean p -value by grade-level ranges from a low of 0.46 (grade 10) to a high of 0.62¹⁴ (grade 4). The mean p -value across all Mathematics items is 0.54.

Unweighted (not including level of independence)

When the data are not weighted by level of independence, in order to be more true to the classical item statistics being reported, the p -values of Reading items range from 0.21¹⁵ (grade 4) to 0.85¹⁶ (grade 6). There are a total of 24 items with p -values below 0.30, including 11 items with p -values below 0.25. The mean p -value across all Reading items is 0.53. The p -values of Writing items range from 0.16¹⁷ (grade 4) to 0.82 (grade 8). There are a total of 27 items with p -values below 0.30, including 10 items with p -values below 0.25. The mean p -value across all Writing items is 0.51. The p -values of Mathematics items range from 0.06 (grade 10) to 0.86 (grade 3). There are a total of 39 items with p -values below 0.30, including 18 items with p -values below 0.25. The mean p -value across all Mathematics items is 0.49.

The difference in the statistics as computed with and without level of independence included in scoring was also addressed. It was found that for all content areas, items are estimated to be easier (on average) when level of independence is included in the scoring. For Reading the mean difference is 0.02, for Writing it is 0.03, and for Mathematics it is 0.06. In general, grade and content area results indicate that the CoAlt items are not too easy or too difficult for the tested population as a whole. The items with low p -values were reviewed in light of content, complexity, and appropriateness for this population of students.

Item Discrimination (point-biserial correlation)

The point-biserial correlation, a derivation of the Pearson product moment correlation, is used here as an index of item discrimination. The point-biserial correlation assumes that item responses are based upon a dichotomy, or correct and incorrect. Additionally, there is no assumption of normality of the data, which is important given the frequency distributions observed (Schmeiser & Welch, 2006). Further, given that the value of the point-biserial correlation tends to be lower than the biserial correlation due to sensitivity to item difficulty, a conservative approach was chosen and point-biserial rather than biserial correlation coefficients are reported. Due to the assumption of a dichotomous variable (correct versus incorrect item response), the data in Tables 26–28 illustrate the values both with and without level of independence included in scoring. When the values include level of independence, the assumption of a dichotomous distribution is violated. When the values do not include level of independence, a dichotomy is possible for MC items. Table 29 provides a summary including the minimum, mean, and maximum values for each grade level and content area with the level of independence included in the scoring, as is done with operational scoring and reporting. Table 30 provides a summary including the minimum, mean, and maximum values for each grade level and content area without including the level of independence in the scoring.

Acceptable point-biserial item-test correlations are usually in the range of 0.30 and above. Crocker and Algina (1986), following Ebel (1965), suggest that point-biserial correlation values

¹⁴ There are two values of 0.62; however, the grade 4 value of 0.623 is higher.

¹⁵ There are three values of 0.21; however, the grade 4 value of 0.207 is the lowest.

¹⁶ There are two values of 0.85; however, the grade 6 value of 0.855 is higher.

¹⁷ There are two values of 0.16; however, the grade 4 value of 0.160 is lower.

for items to be retained operationally should be significantly greater than zero, where significance is established by computing an approximation for the standard error for the Pearson product moment correlation. This approximation is based upon the sample size for each item, and the critical value should be set two standard errors above zero. The approximation is computed as $1 / \sqrt{N - 1}$. With the CoAlt data the minimum number of students tested, over all content areas, is 518 (grade 9 Reading and Writing). Using this as the minimum N value, though it is noted that responses to individual items may have slightly lower N values, the obtained value is 0.0440. Thus the critical value for the correlation would be 0.0880. There is one item in the CoAlt assessment with a point-biserial value less than 0.0880. This item appears in Mathematics at grade 8 and has a point-biserial value of 0.077; this item has a p -value of 0.25. A generally accepted critical cut-off for student assessments is 0.15, as with increasing sample sizes the formula above would ultimately provide for results that were not substantively different from zero. It is important to note that threshold values will vary based upon the purpose of the assessment and the needs of the testing program.

The ranges and means of the Reading, Writing, and Mathematics point-biserials including level of independence are as follows: Reading ranged from 0.17 (grade 6) to 0.73¹⁸ (grade 5) with a mean across all items of 0.54; Writing ranged from 0.14 (grade 10) to 0.88¹⁹ (grade 8) with a mean across all items of 0.57; and Mathematics ranged 0.08 (grade 8) to 0.80²⁰ (grade 3) with a mean across all items of 0.57.

Across all grade levels and content areas there are just six items with point-biserial values lower than the generally accepted critical cut-off of 0.15: one in Writing (grade 10) and five in Mathematics (grades 6, 8, 9, and 10). The grade 10 Writing item has a point-biserial value of 0.14 and a p -value of 0.17 and the item measures students' ability to edit a written product using legible handwriting/word processor for publication. The grade 6 Mathematics item has a point-biserial value of 0.15²¹ and a p -value of 0.27. The grade 8 Mathematics item has a point-biserial value of 0.08 and a p -value of 0.25 and measure students' ability to apply a variety of measurement skills. The grade 9 Mathematics item has a point-biserial of 0.09 and a p -value of 0.22 and measure students' ability to use calculation strategies to compute problems. One grade 10 Mathematics item has a point-biserial value of 0.10 and a p -value of 0.20 and the item measures students' ability to identify, describe, and create patterns to solve problems, and the other has a point-biserial of 0.12 and p -value of 0.19 and measures students' ability apply a variety of measurement skills. This means that these items have reduced discriminating power, such that students with high and low ability may have a similar probability of correctly responding to these items (since the p -values are also low).

The ranges and means of the Reading, Writing, and Mathematics point-biserials without level of independence are as follows: Reading ranged from 0.19 (grade 6) to 0.74 (grade 9) with a mean of 0.54; Writing ranged from 0.16 (grade 10) to 0.85²² (grade 7) with a mean of 0.57; and Mathematics ranged from 0.05²³ (grade 8) to 0.81 (grade 4) with a mean of 0.57.

When not including level of independence, there were four items across all grade levels and content areas with a point-biserial value lower than the critical cut-off of 0.15. The grade 8 Mathematics item has a point-biserial of 0.05 and a p -value 0.22; the grade 9 Mathematics item has a point-biserial of 0.11 and a p -value of 0.20; one grade 10 Mathematics item has a point-

¹⁸ There are two values of 0.73; however, the grade 5 value of 0.732 is higher.

¹⁹ There are two values of 0.88; however, the grade 8 value of 0.881 is higher.

²⁰ There are four values of 0.80; however, the grade 3 value of 0.804 is the highest.

²¹ One item has a rounded point-biserial value of 0.15; however, the unrounded value is 0.146.

²² There are two values of 0.85; however, the grade 7 value of 0.854 is higher.

²³ There are two values of 0.05; however, the grade 8 value of 0.050 is lower.

biserial of 0.05 and a p -value 0.18 and the other has a point-biserial of 0.11 and a p -value of 0.17. Again, these items have reduced discriminating power, such that students with high and low ability may have a similar probability of correctly responding to this item (since the p -value is also somewhat low).

The difference in the statistics as computed with and without level of independence included in scoring was also addressed. It was found that for all content areas, item discrimination statistics were stable (on average) regardless of the inclusion of level of independence in the scoring. For Reading the mean difference is 0.008, for Writing the mean difference is 0.002, for Mathematics the mean difference is -0.008 .

Content Standards Level Statistics

Student performance on individual content standards (critical concepts) is reported in terms of the percentage of items within each critical concept students answered correctly. This proportion can be considered an average p -value across items within a specific critical concept. The critical concepts' p -values can also be compared from the standpoint of difficulty across the individual critical concepts. To illustrate the level of difficulty by critical concept, critical concepts at each grade are ranked according to the average proportion of students responding correctly to items within each critical concept. This type of analysis is also meant to show the most difficult critical concepts for the tested population. The results of the rankings are found in Tables 31–33. As the tables indicate, the areas that are difficult for Reading, Writing, and Mathematics vary by grade.

In Reading, “demonstrate understanding of symbolic representation” is the least difficult (by mean p -value) for grades 3–5, while “demonstrate understanding of beginning principles of phonics” is the least difficult for grades 6–10. The most difficult critical concept for grades 3, 4, and 8 is “identify elements of literature,” while for grades 5–7, 9 and 10 it is “demonstrate knowledge that various texts have different purposes.” The range of mean p -values is 0.37 (grade 7 Expanded Benchmark 3.1) to 0.74 (grade 6 Expanded Benchmark 1.3).

For Writing, the least difficult critical concept for grades 3 and 5–10 is “demonstrate an understanding that writing communicates a message,” and for grade 4 is “use systematic conventions to make written product understandable by others.” The most difficult critical concept for grades 3–8 is “apply elements of writing through appropriate word usage,” for grade 9 is “edit a written product using legible handwriting/word processor for publication,” and for grade 10 is “use systematic conventions to make written product understandable by others.” The range of mean p -values is 0.38 (grade 3 Expanded Benchmark 2.2) to 0.75 (grade 9 Expanded Benchmark 1.1).

Mean p -values in Mathematics indicate that the least difficult critical concept for grades 3, 5, and 8 is “identifies, sorts, and matches geometric shapes,” while the least difficult critical concept for grades 4, 6, 7, 9, and 10 is “counts, represents quantities, reads and writes numbers.” The most difficult Mathematics critical concept at grades 3 and 6 is “applies a variety of measurement skills,” for grades 4 it is “displays and analyzes data,” for grades 5, 7, 8, and 10 it is “identifies, describes, and creates patterns to solve problems,” and for grade 9 it is “uses calculation strategies to compute problems.” The range of mean p -values is 0.34 (grade 10 Expanded Benchmark 2) to 0.72²⁴ (grade 4 Benchmark 1).

In general, the range of mean p -values by critical concept is fairly consistent across all critical concepts in each grade/content area demonstrating a balance of difficulty across critical

²⁴ There are two values of 0.72; however, the grade 4 value of 0.718 is higher.

concepts. Again, all low p -value items were reviewed for content and appropriateness by CTB content experts and the CDE.

The average point-biserial value across the critical concepts was also computed in order to evaluate the degree of relationship between the critical concepts and the test as a whole. In general, the range of mean point-biserial values by critical concept/expanded benchmark illustrates critical concepts that are sufficiently correlated with the total test. Specifically, the Reading average values range from 0.32 (grade 7 Expanded Benchmark 3.1) to 0.65 (grade 7 Expanded Benchmark 1.2). In Writing, the average values range from 0.44 (grade 9 Expanded Benchmark 2.3) to 0.74 (grade 8 Expanded Benchmark 1.1). In Mathematics, the average values range from 0.31 (grade 10 Expanded Benchmark 2) to 0.68 (grade 8 Expanded Benchmark 3).

Total Test Level Statistics

Student performance is described in different ways, including total raw scores, performance on specific content expanded benchmarks/critical concepts, and proficiency levels (the details of which are described in the CoAlt standard setting technical reports). The maximum number of points per grade and content area varies across grades and content areas and can be found in Table 4. Figures 6–11 illustrate mean scores as the percent of the total possible score. For example, if the mean score was 60 for a test with 120 possible total points, the figures would illustrate that the mean score was 50% of the total possible score. In this way, differences in mean scores that are related to the number of possible points are not directly confounded. It is important to note that the forms are not equated across grade levels, so comparisons in performance across grade levels are not appropriate.

The raw score performance statistics by grade and content, broken down by gender and race/ethnicity, can be found in Tables 5–7. In general, males and females perform similarly in Reading, Writing, and Mathematics (Figures 6–8). The largest difference is for Mathematics grade 9 where, on average, males have a higher score than females by 5.98%. In general, students also perform similarly across race and ethnicity (Figures 9–11). In Reading, illustrated in Figure 9, White students slightly outperform other races/ethnicities at grade 3, 4, and 8 while Black/African American students somewhat outperform other races/ethnicities at grades 5, 9, and 10, and students designating two or more races slightly outperform other races/ethnicities at grades 6 and 7. In Writing, illustrated in Figure 10, White students slightly outperform other race/ethnicities at grade 3, Black/African American students have the highest performance in grades 4, 5, 6, 9, and 10, and Hispanic/Latino students outperform others in grades 7 and 8. In Mathematics, illustrated in Figure 11, White students have the highest performance in grade 3, Hispanic students slightly outperform other races/ethnicities at grades 4 and 8, Black/African American students have the highest performance at grades 5, 7, 9, and 10, and students identified with Two or More Races largely outperform other races/ethnicities at grade 6.

Raw score frequency distributions by grade and content area are found in Tables 34–57.

Proficiency Level Data

Student performance on the CoAlt is also described in terms of proficiency levels. The CoAlt categorizes performance into five categories: *Inconclusive*, *Exploring*, *Emerging*, *Developing*, and *Novice*, with *Novice* representing the highest level of proficiency.

Table 58 details the final cut scores for each proficiency level by grade and content area, along with the associated impact data (percentages of students in each proficiency level). To see the impact data in graphical form, refer to Figures 12–14. All impact data are calculated on the basis of performance on the 2014 CoAlt test administration; however, the cut scores were developed

at the 2007 and 2008 standard settings. Overall pass rates, as defined by the combination of the two highest proficiency levels, *Developing* and *Novice* (shown in Figure 15), are 40% or greater for Reading grade 5, Mathematics grades 3–6, and Writing grade 6. Pass rates range from 18% to 41% in Reading, 24% to 44% in Writing, and 29% to 49% in Mathematics.

Part 8: Summary of Results—Reliability and Validity

This section summarizes results and describes some of the evidence that establishes the degree to which the CoAlt results are reliable and valid.

Reliability

Assessment scores always contain some amount of measurement error. There are two types of error customarily defined in measurement: random and systematic. Both random and systematic errors can easily threaten and compromise the accessibility and therefore the precision, reliability (to include accuracy), and validity of an assessment.

Random errors are just that—random. They are varied and inconsistent, impacting students within a group differently. Random error adds variability but does not affect average performance for a group. Standardization of assessments is meant to minimize errors that occur because of random factors that affect a student's performance on the assessment.

Systematic errors are caused by factors that affect measurement across an entire group of students in the same manner, or they may be specific to some subgroup characteristics (e.g., students who need accommodations, but are not offered them). An example of a systematic error is when students with disabilities are administered a test without the accommodation(s) they require (for example, giving a blind student a regular, non-Braille, non-Large Print form). Other systematic errors can include improper test administrator training, mishandled test materials, or scanner malfunctions.

Errors are also introduced if the sampling of content on a test is too narrow and does not provide a solid representation of the skills being measured. This is circumvented by clear blueprints that show a variety of items and item approaches to assess each standard.

Reliability refers to the degree to which students' scores are free from such errors, and provides a measure of consistency. In other words, reliability helps to describe how consistent students' performances would be if given the assessment over multiple occasions.

For the CoAlt, several measures of reliability are available. First, the tests are administered in standard fashion to all students, where examiners administer the assessments to the students in an individualized manner. In addition, students all respond to the same items and test forms. Those who need expanded accommodations in order to access the test items are provided such. Providing expanded accommodations ensures that what is standard for the student in daily instruction carries over to and supports the validity of the CoAlt administration. CTB's policy (CTB/McGraw-Hill, 2004) on accommodations and their use on standardized tests stands by the philosophy that what is standard for the student in the classroom and instruction should be what is standard for that student during the assessment, minimizing systematic errors.

Item-specific reliability

Item-specific reliability statistics include the point-biserial correlation, also called an item-test correlation. It is one type of internal consistency measure that is a derivation of the Pearson product moment correlation measuring the correlation between each item and the group of items remaining on the test overall. The correlation provides an indication of how consistently each item measures information similar to the other items on a test measuring a single overall

construct, such as Mathematics. Tables 26–28 illustrate point-biserials item by item, while Table 29 summarizes the point-biserials (and p -values) for each grade and content area based upon the operational scoring, including level of independence, and Table 30 summarizes the point-biserials (and p -values) for each grade and content area without including level of independence. In general, the point-biserial correlations including level of independence as done in operational scoring and reporting, are within acceptable ranges and above the critical cut-off value of 0.15, with only six exceptions as previously noted (one in Writing grade 10; and five in Mathematics, one in grade 6, two in grade 8, one in grade 9, and one in grade 10).

Total test reliability

Total test reliability measures consider the level of consistency (reliability) of student performance over all test questions in a given form, the results of which imply how well the questions measure the content domain and could continue to do so over repeated administrations.

Cronbach's alpha

Total test reliability coefficients, in this case measured by Cronbach's alpha (1951), may range from 0.00 to 1.00, where 1.00 refers to a perfectly consistent test. Achievement tests are typically considered of sound reliability when their reliability coefficients are 0.80 and above. The total test reliabilities of the CoAlt forms were evaluated first by Cronbach's alpha (α) index of internal consistency (Cronbach, 1951). The specific calculation for Cronbach's alpha is:

$$\hat{\alpha} = \frac{k}{k-1} \left(1 - \frac{\sum \hat{\sigma}_i^2}{\hat{\sigma}_x^2} \right)$$

where k is the number of items on the test form, $\hat{\sigma}_i^2$ is the variance of item i , and $\hat{\sigma}_x^2$ is the total test variance. Cronbach's alpha is appropriate for both dichotomously scored items and those with a wide range of scoring weights (Crocker & Algina, 1986), making it an appropriate statistic for use with the CoAlt.

There are a number of factors that influence reliability coefficients, including group variation, time limits, test length, and the assumption of independence in the data. When the individuals participating in an assessment are sufficiently diverse, the reliability estimates will be increased, while a more homogeneous group will produce lower reliability estimates (Crocker & Algina, 1986). Given the very diverse population of students who participate in the CoAlt, it is likely that the reliability estimates will be quite high. Since the CoAlt is untimed, time limits are irrelevant. Further, test length has been established based upon sufficient measurement of the standards as identified by the CDE, thus test length is unlikely to be significantly modified. However, because the teacher is a constant variable across all student responses, the reliability coefficients should be interpreted in light of the fact that the data across items are not strictly independent.

Tables 5–19 show the reliability coefficients (Cronbach's alpha) for all grades and content areas from the 2013–14 CoAlt test administration based upon the total group and relevant subgroups. As is evident in the tables, the coefficients are quite high. At the total group level (summarized in Table 59), the ranges for the reliabilities by content area are as follows: Reading 0.91 (grade 10) to 0.94 (grade 6); Writing 0.92²⁵ (grade 3) to 0.94 (grade 7); and Mathematics 0.93²⁶ (grade 10) to

²⁵ There are two values of 0.92; however, the grade 3 value of 0.919 is lower.

²⁶ There are three values of 0.93; however the grade 10 value of 0.931 is the lowest.

0.95²⁷ (grade 5). It is likely that the heterogeneity of the CoAlt population contributes to the high reliabilities.

At the subgroup level the reliabilities remain high. As seen in Tables 5–7, the lowest total score reliability by gender is for females in grade 10 Reading where the reliability value equals 0.91²⁸. The lowest total score reliability by race/ethnicity is for the Two or More Races subgroup in grade 3 Writing with a value of 0.87. Tables 8–10 illustrate that the lowest total score reliability by Language Proficiency status is 0.84 for Reading grade 7 “NEP,” the lowest total score reliability by ELL program—Bilingual status is 0.91 for Reading grade 10 “No,” and the lowest total score reliability by ELL program—English as a Second Language status is 0.84 for Reading grade 7 “Yes.” As seen in Tables 11–13, the range for total score reliability by Free/Reduced Price Lunch status is 0.88 for Reading grade 10 “Reduced Lunch Eligible” to 0.96²⁹ for Mathematics grade 5 “Reduced Lunch Eligible.”

Tables 14–16 illustrate that the lowest total score reliability by Primary Disability is 0.55 for Writing grade 10 “Specific learning disability” with a sample size of 19. Homogeneity in the sample can decrease variance and the magnitude of the correlation. This group of students has a mean score of 87.16 out of 108 possible points and the standard deviation for the group is 8.74. Given the small sample size and homogenous sample, the reliability statistic was rendered ineffectual. For those subgroups with sufficient sample sizes for reporting (greater than 15), fewer than 15% had reliabilities less than 0.80, with sample sizes ranging from 17 to a maximum of 23, thus those reliability estimates should be interpreted with caution due to the small sample sizes. The highest total score reliability by Primary Disability was 0.95³⁰ for Mathematics grade 5 “Multiple disabilities.”

As seen in Tables 17–19, the lowest total score reliability by Expanded Accommodation is 0.80 for Reading grade 8 “Modified Picture Symbols.” The highest total score reliability value is 0.96³¹ for Mathematics grade 5 “Objects.”

Standard Error of Measurement

Another measure of reliability is a direct estimate of the degree of measurement error in students’ total score on a test, which is a raw score for the CoAlt. This second measure is called a standard error of measurement (SEM). This represents the number of score points about which a given score can vary, similar to the standard deviation of a score: the smaller the SEM, the smaller the variability and the higher the reliability. The SEMs are computed with the following formula:

$$SEM = SD_TS(\sqrt{1 - \hat{\alpha}})$$

where SD_TS is the standard deviation of the total score and $\hat{\alpha}$ is the result of the calculation of Cronbach’s alpha shown previously. The SEMs represent the total standard error of measurement in the raw score metric across all items in a given form. It is important to note that for the CoAlt a MC item contributes up to 3 points and a CR item contributes up to 6 points.

The SEMs by test for the total group and all subgroups are given in Tables 5–19 and are summarized at the total group level in Table 59. At the total group level, SEMs for Reading range from 6.66 (grade 6, 105 total possible points) to 7.34 (grade 10, 102 total possible points); for Writing from 7.44 (grade 9, 105 total possible point) to 7.80 (grade 4, 108 total possible

²⁷ There are two values of 0.95; however the grade 5 value of 0.953 is higher.

²⁸ There are several values of 0.91; however, the grade 10 value of 0.906 is lowest.

²⁹ There are several values of 0.95; however the grade 5 value of 0.964 is the highest.

³⁰ There are several values of .95; however, the Mathematics grade 5 value of 0.954 is the highest.

³¹ There are several values of 0.96; however, the Mathematics grade 5 value of 0.963 is the highest.

points); and for Mathematics from 8.13 (grade 3, 126 total possible points) to 10.13 (grade 5, 171 total possible points). These are within acceptable ranges given that the CoAlt is on a raw score scale, with each item contributing up to 3 or 6 points (dependent on item type). Therefore, even the highest SEM value of 10.13 (grade 5 Mathematics) reflects approximately three MC items or two CR items, or some combination thereof.

Classification Consistency and Accuracy

Classification consistency and accuracy are additional measures of reliability, as well as validity. Reliability coefficients, such as Cronbach's alpha, are used to check for the internal consistency within a test. Test-retest reliability requires two administrations of the same test which requires another testing as an external reference. When retesting students is not feasible, classification consistency is a viable and often utilized alternative. Consistency in the classification sense represents how well two forms of an assessment with equal difficulty agree (Livingston & Lewis, 1995). It is estimated using actual response data and total test reliability from an administered form of an assessment, from which two parallel forms of the assessment are statistically modeled and classifications compared.

Table 60 illustrates classification consistency and classification accuracy indices based on the Livingston and Lewis (1995) methodology. Note that the values of all indices depend on several factors, such as the reliability of the test form, the distribution of scores, the number of cut scores, and the location of each cut score. The probability of a correct classification (PC) is the probability that the classification the student received is consistent with the classification that the student would have received on a parallel form. This is akin to the exact agreement rate in inter-rater reliability and the expectation is that this probability would be high. For Reading, the average PC is 0.65 across all grades and ranges from 0.60 (grade 10) to 0.70 (grade 6). For Writing, the average PC is 0.62 across all grades and ranges from 0.57 (grade 8) to 0.68 (grade 3). For Mathematics, the average PC is 0.65 across all grades and ranges from 0.63³² (grade 7) to 0.68 (grade 5). Probability of misclassification (PM) is 1 minus PC.

The probability of a correct classification by chance (Chance) is the probability that the classification is correct and is due to chance alone. The probability of Chance is estimated under a complete random assignment procedure using the marginal distribution of each form. The Chance probability is expected to be low. For Reading, the average Chance is 0.24 across all grades and ranges from 0.21 (grade 10) to 0.27 (grade 6). For Writing, the average Chance is 0.23 across all grades and ranges from 0.21³³ (grade 8) to 0.27 (grade 3). For Mathematics, the average Chance is 0.23 across all grades and ranges from 0.21³⁴ (grade 7) to 0.26 (grade 4).

Cohen's kappa (kappa) provides the same type of reliability or agreement statistic as described previously with the Livingston and Lewis (1995) classification consistency methodology, representing the agreement of the classifications between the two parallel forms with the consideration of the probability of a correct classification by chance, PC minus Chance divided by one minus Chance. In general, the value of kappa is lower than the value of PC because the probability of a correct classification by chance is larger than zero. This is true of the CoAlt data in Table 60. For Reading, the average kappa is 0.54 across all grades and ranges from 0.50 (grade 10) to 0.59 (grade 6). For Writing, the average kappa is 0.50 across all grades and ranges from 0.46 (grade 8) to 0.56 (grade 3). For Mathematics, the average kappa is 0.55

³² There are three values of 0.63; however, the grade 7 value of 0.627 is the lowest.

³³ There are two values of 0.21; however, the grade 6 value of 0.205 is lower.

³⁴ There are two values of 0.21; however, the grade 7 value of 0.209 is lower.

across all grades and ranges from 0.53³⁵ (grade 9) to 0.58 (grade 5). Landis and Koch (1977, p. 165) suggest the following as guidelines for interpretations of kappa:

- <0.00 Poor
- 0.00–0.20 Slight
- 0.21–0.40 Fair
- 0.41–0.60 Moderate
- 0.61–0.80 Substantial
- 0.81–1.00 Almost Perfect

Consistency and accuracy are important to consider in concert. The probability of accuracy (PA) represents the agreement between the observed classification based on the actual test form and true classification, given the modeled form. For Reading, the average PA is 0.75 across all grades and ranges from 0.71 (grade 10) to 0.79 (grade 6). For Writing, the average PA is 0.71 across all grades and ranges from 0.64 (grade 8) to 0.77 (grade 3). For Mathematics, the average PA is 0.75 across all grades and ranges from 0.72 (grade 7) to 0.77³⁶ (grade 5). Finally, Table 60 provides the probability of false positives (FP) and false negatives (FN) as measures of error in the data table and these are low, as expected.

Validity

Validity refers to the degree to which evidence and theory support the interpretations of test scores entailed by proposed uses of the test (AERA, APA, & NCME, 1999). The *Standards for Educational and Psychological Testing* (AERA, APA, & NCME, 1999) address the concept of validity in testing:

Validity refers to the degree to which evidence and theory support the interpretations of test scores entailed by proposed uses of tests. Validity is, therefore, the most fundamental consideration in developing and evaluating tests. The process of validation involves accumulating evidence to provide a sound scientific basis for the proposed score interpretations. It is the interpretations of test scores required by proposed uses that are evaluated, not the test itself. When test scores are used or interpreted in more than one way, each intended interpretation must be validated (p. 9).

Test validation is an ongoing process of gathering evidence from many sources to evaluate the soundness of the desired score interpretation or use. This evidence is acquired from studies of the procedures surrounding the targeted student group, the history of the content standards and their development, the development of the test (procedural validity), the content of the test (content validity), and from studies involving scores produced by the test. Additionally, reliability is a necessary element for validity. A test cannot be valid if it is not also reliable. There are various sources of validity evidence, such as evidence based on procedures and processes in the development and scoring of the assessment, alignment of the assessment items with standards, and relations to other variables.

The purpose of the assessment, as described in the Overview of this document, is not only to meet accountability requirements, but also to provide students, parents, teachers, and schools with information on how their students are progressing relative to the Colorado Model Content Standards and Expanded Benchmarks, as described in Part 1: Standards.

³⁵ There are three values of 0.53; however, the grade 9 value of 0.527 is the lowest.

³⁶ There are two values of 0.77; however, the grade 5 value of 0.769 is higher.

Generally, achievement tests are used for student level outcomes, either 1) making predictions about students, or 2) describing students' performance (Mehrens & Lehmann, 1991). In addition, tests are now also used for the purpose of accountability and measuring AYP. As stated by R. L. Linn (2008), "Tests are used as policy tools to hold teachers and school administrators accountable for student learning and as levers to change instruction in the classroom" (p. 4). The CDE uses various assessment data in reporting AYP and in various programmatic and policy level decisions. Specific to student level outcomes, the CoAlt documents student performance in the areas of Reading, Writing, and Mathematics as defined by the standards. To ensure that test scores allow interpretations appropriate for this purpose, the content of the test must be carefully matched to the specified standards. The 1999 AERA, APA, & NCME *Standards for Educational and Psychological Testing* state:

Important validity evidence can be obtained from an analysis of the relationship between a test's content and the construct it is intended to measure. Evidence based on test content can include logical or empirical analyses of the adequacy with which the test content represents the content domain and of the relevance of the content domain to the proposed interpretation of test scores. Evidence based on content can also come from expert judgments of the relationship between parts of the test and the construct. (p.11)

In regards to content validity evidence, logical analyses of test content indicate the degree to which the content of a test covers the domain of content the test is intended to measure. In the case of the CoAlt, the content is defined by test blueprints that describe the skills that must be measured to assess the content standards. The test development process requires specific attention to content representation and the balance thereof within each test form. In addition, several item review committees contribute to the item review and approval process, assuring the items assess the content standards and are mapped accordingly. Part 2: Test Development of this report contains more information specific to these reviews. The reviews also help to assure fair and unbiased items so that items function similarly for members of different race/ethnic, gender, or disability groups.

The internal structure of the test also provides evidence of validity. For example, high internal consistency like that described by the reliability coefficients, constitutes evidence of validity. This is because high reliability coefficients imply that the test questions are measuring the same domain of skill, are reliable, and are consistent.

The validity of an assessment is also evidenced by establishing that the population of students for which the assessment is purposed and built is well targeted, and that those are the students who participate. The targeted student population for the CoAlt is defined as students with a severe cognitive disability who cannot otherwise participate in the general TCAP even with accommodations. Given the high-stakes nature of the CoAlt and the requirements of NCLB and Peer Review Evidence, as well as the need for eligibility criteria data, it is important to note who was actually included in the CoAlt and gather data on their performance. The number of students in various subgroups who participated, along with each group's summary scores, is presented in Tables 5–7 (specific to gender and race/ethnicity), Tables 8–10 (specific to ELL status), Tables 11–13 (specific to Free/Reduced Price Lunch eligibility), Tables 14–16 (specific to primary disability), and Tables 17–19 (specific to expanded accommodation provided on the CoAlt).

It is also important that students are able to demonstrate a range of performance commensurate with the expectation of the targeted population. Total raw score results for each grade and content area for the total groups are found in Table 59 and raw score frequency distributions by grade and content area are found in Tables 34–57. Data by expanded benchmark or critical concept are

found in Tables 31–33. These data are reviewed and explained in greater detail in Part 7: Analyses and Results in this report.

An assessment that is valid should be similarly reliable for subgroups of similar sample sizes. Therefore, in addition to the total group data, subgroup total test performance and the associated test reliabilities and standard errors must also be reported. Tables 5–19 show these by subgroup for only those subgroups with ample sample sizes to report statistics (no groups less than 16 have statistics reported, only sample size information). Specific details on test reliability and standard errors are further described in the reliability section.

Part 9: Special Studies

Special studies, which were conducted as specific data analyses for the CoAlt, are meant to inform policy and provide additional evidence regarding reliability and validity.

Level of Independence

The percentages of total items across all grades, by content area, on which students responded with each level of independence, are found in Table 61. Overall, students responded independently to most items. In Reading, 88% of items were responded to independently (Level 4 according to the Level of Independence Protocol). In Writing, this value was 87%, and in Mathematics, it was 81%.

Additional Reliability Measures

Additional reliability coefficients were calculated (KR20) in an effort to describe the consistency of the levels of independence performed by students and documented by test examiners. The KR20 statistic yields the same results as Cronbach's alpha for dichotomously scored items (Crocker & Algina, 1986). The goal was to determine the consistency of the level of independence rating for each student, as it was assumed that a student would perform at approximately the same level of independence across all items. The belief is that a student answering one item independently would be more likely to answer other items independently than they would be to require assistance (demonstrating a lower level of independence) on other items. This helps to confirm that level of independence is about the student's ability as opposed to the type of item being administered. The concern is that there is no way to determine whether the rating is truly a reflection of the independent functioning of the student or the way in which the test examiner administered the assessment. The data in Table 62 illustrates the consistency of the level of independence ratings, describing by grade and content area the reliability of students at the highest level of independence (Level 4) compared with students at the remaining lower levels. The data demonstrate high reliabilities of at least 0.95 across all grade and content areas. This is an indication that the level of independence at which students perform and/or examiners provide assistance is consistent across items.

Given that students tend to respond independently is a good sign that examiners are not over-assisting their students on CoAlt and provides clearer data on the students' level of content-based understanding. Additional information regarding the level of independence is found by looking at the number of occurrences where the student performed at the lowest level of independence, level 1 "no response," but responded correctly to the item, or where students performed at the upper levels of independence (2–4), but had no response to the test item marked, per test administrator coding. This is believed to be an indication of coding errors more than anything else. The percentages of item responses where these errors occurred are found in Table 63. The occurrences of coding errors due to a level 1 "no response" and a correct response given (average 0.23%, maximum 0.57%) are on average higher than error due to no

response provided to the item with level of independence coded as 2–4 (average 0.15%, maximum 0.33%).

Student Scores

It is also important to gauge the range of scores across students. One way to look at this is to evaluate the number of students earning the maximum total raw score (the ceiling) and those not earning any points (the floor). This type of data can help provide information regarding eligibility policy. The number of students at the maximum and minimum raw scores for the total student population is found in Tables 5–7 and Table 59. In all grades and content areas there are fewer students achieving the maximum score than the minimum score. In Reading, at two grade levels (grades 3 and 9), no students achieved the maximum possible score. The highest number of students to earn the maximum score was 4 at grade 6, while the number of students who received the minimum score ranged from 11 (grade 3) to 25 students (grade 4). In Writing, there are four grade levels (grades 4 and 8–10) with no students achieving the maximum possible score. The greatest number of students to earn the maximum was 5 at grade 6 and the number of students who received the minimum score ranged from 12 (grade 3) to 24 students (grade 4). In Mathematics, there are three grade levels (grades 7, 9 and 10) in which no students earned the maximum possible score and the greatest number of students to earn the maximum score was 3 at grade 4, while the minimum score was earned by up to 10 students (grade 3) to 24 students (grade 10). This information is also illustrated by subgroups in Tables 5–19.

Another way of looking at this is to view the distribution of students across the raw score scale. Raw score frequency distributions are found in Tables 34–57. It is seen that students are fairly evenly spread out across the range of scores, though there is some “clumping” evident at the top and bottom of the distributions as is typical with this population of students.

Performance Levels and Response Modes

Tables 64–66 illustrate the average level of independence with which a student answers the test items by content area in relation to the percentage of students in each of the proficiency levels. The student’s average level of independence was calculated as a simple average of the level of independence scores across all test items by content area. This provided a range for the levels of independence with which students tended to respond. Then, for each of the five proficiency levels, the percentage of students within each range of independence was calculated. It can be seen that zero percent of students with an average level of independence less than 3.5 achieved a proficiency rating of *Novice*. All students with an average level of independence of 1.0–1.4 achieved a proficiency level of *Inconclusive*. The greater the average level of independence with which a student responds the more likely they are to have a higher proficiency rating. It is important to note that it is appropriate for independent responses to receive low scores (such as the percentage of students with the highest average level of independence scoring in the *Inconclusive* level) due to the possibility for an incorrect though independent response to be given. This finding is reassuring as it illustrates that examiners are not simply redirecting if the student answers the question incorrectly at first.

Part 10: Longitudinal Analyses

Reading and Writing comparisons examine the differences across seven years, 2007–08, 2008–09, 2009–10, 2010–11, 2011–12, 2012–13, and 2013–14 while Mathematics comparisons examine differences for eight years, 2006–07, 2007–08, 2008–09, 2009–10, 2010–11, 2011–12, 2012–13, and 2013–14. Throughout this section, differences are calculated as the most recent year compared to the prior year. As such, differences are calculated as 2013–2014 minus 2012–

13, 2012–2013 minus 2011–12, and so forth. Given this calculation of differences, negative values indicate that the values have decreased in the more recent year.

Over time it would be expected that there would be only minimal differences in test statistics such as *p*-values (item difficulty) and point-biserial correlations (item-test correlation) assuming that the tested population remains stable. Given the reporting and use of raw score results without equating, the assumption of relative population invariance becomes critical in the examination of student performance over time.

Reading

Figure 16 illustrates the number of students participating in the CSAPA/CoAlt Reading assessment by year. It can be seen that between 2008 and 2014 there has been a variety of increasing and decreasing trends in the number of students across all grades.

Table 67 illustrates the means and standard deviations at the total group level by grade for Reading. It is seen that differences from 2007–08 to 2008–09 were as small as –0.42 points for grade 4 and as large as 3.73 points for grade 10. It is also seen that the means for grades 3, 4, 8, and 9 decreased (–0.42 to –2.28 points), while the means for grades 5–7 and 10 increased (1.08 to 3.73 points). Differences from 2008–09 to 2009–10 were as small as –0.04 points for grade 7 and as large as –2.67 points for grade 10. It is also seen that the means for grades 3–5, 7, 9, and 10 decreased (–0.04 to –2.67 points), while the means for grades 6 and 8 increased (0.06 to 0.57 points). Differences from 2009–10 to 2010–11 were as small as 0.06 points for grade 6 and as large as 1.93 points for grade 7. It is also seen that the means for grades 3, 4, and 8–10 decreased (–0.09 to –0.88 points), while the means for grades 5–7 increased (0.06 to 1.93 points). Differences from 2010–11 to 2011–12 were as small as 0.30 points for grade 9 and as large as 3.89 points for grade 5. It is also seen that the means for grades 3–5, and 7 decreased (–0.66 to –3.89 points), while the means for grades 6 and 8–10 increased (0.30 to 2.90 points). Differences from 2011–12 to 2012–13 were as small as 0.17 in grade 8 and as large as 3.45 in grade 5. It is also seen that means increased in grades 3, 5, and 7–10 (0.17 to 3.45 points) whereas the means decreased in grades 4 and 6 (–0.35 to –2.14 points). From 2012–13 to 2013–14 differences ranged from –0.11 in grade 3 to –3.71 in grade 5. Mean scores increased in grades 4 (1.51) and 9 (1.64) and decreased in grades 3, 5–8, and 10 (–0.11 to –3.71). This trend is also illustrated in Figure 19 where the mean score as a percent of the total possible score is presented. Given the nature of the Reading assessment, ranging by grade from 102 to 105 possible points, these small differences in mean scores over time reflect very minor variations in student performance.

Table 70 illustrates the population of students participating in the CSAPA/CoAlt Reading assessment by year based upon gender and primary disability, as well as indicating any differences in the population between the four years. The largest change by gender group from 2007–08 to 2008–09 was seen in grade 7 with a nearly 5% shift in the gender groupings. The smallest difference was observed at grade 10 with less than 0.75% of variation. The largest change by gender group from 2008–09 to 2009–10 was seen in grade 8 with a –3.5% decline in the percentage of male students. The smallest difference was observed at grade 7 with less than 0.25% of variation in the percentage of male students. The largest change by gender group from 2009–10 to 2010–11 is seen in grade 9 with a ±4.29% change for male (–) and female (+) students. The smallest difference is observed at grade 10 with –0.46% of change in the percentage of female students. The largest change by gender group from 2010–11 to 2011–12 was seen in grade 10 with a –2.66% decline in the percentage of male students. The smallest difference was observed at grade 6 with a 0.22% of variation in the percentage of male students. The smallest change by gender group from 2011–12 to 2012–13 was observed at grade 8 with a ±0.08% change in the percentage of male (+) and female (–) students. The largest difference was seen in grade 10 with a 1.88% increase in male students. The largest different by gender group from

2012–13 to 2013–14 was seen in grade 3 with a –3.62% change in the percentage of female students, and the smallest difference was a –0.04% change in the percentage of males students in grade 7.

The primary disability classifications have also remained relatively stable as detailed in Table 70 by grade level and as illustrated for the overall group in Figure 22, only differences for groups containing students in both administrations are referenced here. The smallest difference between the 2007–08 and 2008–09 administrations in the percentage of students classified with a specific primary disability was a zero percent change for the percent of students classified as having a “Visual Disability” in grade 6. The largest difference was 7.17% for “Limited Intellectual Capacity” in grade 6. The smallest difference between the 2008–09 and 2009–10 administrations in the percentage of students classified with a specific primary disability was a zero percent change for the percent of students classified as having a “Visual Disability” in grade 7. The largest difference was an increase of 5.91% for “Limited Intellectual Capacity” in grade 4. The smallest difference between the 2009–10 and 2010–11 administrations in the percentage of students classified with a specific primary disability is a –0.01% change for the percent of students classified as having a “Physical Disability” in grade 7. The largest difference is an increase of 5.77% for “Multiple Disabilities” in grade 4. The smallest difference between the 2010–11 and 2011–12 administrations in the percentage of students classified with a specific primary disability is a zero percent change for the percent of students classified as “Deaf-Blind” in grades 6, 9, and 10. The largest difference is an increase of 5.24% for “Multiple Disabilities” in grade 7. The smallest difference between the 2011–12 and 2012–13 administrations is a –0.01% change in grade 4 students classified with “Visual Disability” and in grade 6 students classified with “Hearing Disability.” The largest difference is a 5.97% decrease in grade 6 students with the classification “Physical Disability.” Between 2012–13 and 2013–14, the largest difference seen was a 6.18% increase in the percentage of students with the classification “Multiple Disabilities” in grade 7, and the smallest difference was a 0% change, which occurred in multiple disability classifications and grades.

A longitudinal summary of p -values is illustrated in Table 73 for Reading. The mean p -values remain quite stable across administrations with the smallest difference from 2007–08 to 2008–09 of -0.004^{37} at grade 4; for 2008–09 to 2009–10 the smallest difference was at grade 9, -0.001 ; for 2009–10 to 2010–11 the smallest difference was at grade 3, -0.004 ; for 2010–11 to 2011–12 the smallest difference was at grade 9, 0.003 ; and for 2011–12 to 2012–13 the smallest difference was at grade 8, at 0.0005 . In 2013–14 there was no difference in mean p -values for grades 3 and 10. The largest difference for 2007–08 to 2008–09 was observed at grade 10 with a difference of 0.036 ; for 2008–09 to 2009–10 the largest difference, of -0.027 , was at grade 10; for 2009–10 to 2010–11 the largest difference of 0.018 , was at grade 7; for 2010–11 to 2011–12 the largest difference of -0.036 , was at grade 5. Equally, the range of p -values remained stable and for 2011–12 to 2012–13. The largest difference of 0.033 was at grade 5, and similarly from 2012–13 to 2013–14 the largest difference of -0.04 was at grade 5. The highest observed p -value was 0.88 in grade 4 (2007–08); 0.89 in grade 5 (2008–09); 0.88 in grade 6 (2009–10); 0.87^{38} in grade 5 (2010–11); 0.89 in grade 6 (2011–12), 0.89 in grade 5 (2012–13), and 0.87^{39} in grade 6 (2013–14). The lowest observed p -value has historically always been in grade 6. It was 0.18 in 2007–08; 0.23 in 2008–09; 0.24 in 2009–10; 0.21 in 2010–11, and 0.23^{40} in 2010–11. In 2012–13 the lowest observed p -value was 0.23^{41} in grade 4, and in 2013–14 the lowest p -value was 0.23^{42} in grade 5.

³⁷ Difference values are expanded here to additional decimal places, as rounding to fewer digits would obscure differences.

³⁸ There are two values of 0.87 ; however, the 0.874 grade 5 value is higher.

³⁹ There are two values of 0.87 ; however, the grade 6 value of 0.869 is higher.

⁴⁰ There are two values of 0.23 ; however, the 0.228 grade 6 value is lower.

⁴¹ There are three values of 0.23 ; however, the 0.233 grade 4 value is the lowest.

Table 76 illustrates the longitudinal point-biserial statistics and provides results of the differences. The mean point-biserials remain quite stable across administrations with grade 8 illustrating a difference of just -0.001^{43} from 2007–08 to 2008–09; 0.002 for grade 9 from 2008–09 to 2009–10; 0.007 for grade 4 from 2009–10 to 2010–11; 0.001 for grade 8 from 2010–11 to 2011–12; -0.002^{44} for grade 4 from 2011–12 to 2012–13; and -0.0006 for grade 6 from 2012–13 to 2013–14. The largest difference in mean point-biserials between 2007–08 and 2008–09 was -0.019 for grade 6; from 2008–09 to 2009–10 the largest difference was -0.017 for grade 4; from 2009–10 to 2010–11 the largest difference was -0.026 for grade 6; from 2010–11 to 2011–12 the largest difference was -0.029 for grade 7. From 2011–12 to 2012–13 the largest difference was -0.024 for grade 3, and from 2012–13 to 2013–14 it was -0.02 for grade 3. The highest observed point-biserial in 2007–08 was 0.74 in grade 9; in 2008–09 it was 0.75 in grade 5; in 2009–10 the highest observed point-biserial was 0.75 in grade 5; and in 2010–11 the highest observed point-biserial was 0.73^{45} in grade 6; in 2011–12 the highest observed point-biserial was 0.74 in grade 3; in 2012–13 the highest observed point-biserial was 0.74^{46} in grade 9; and in 2013–14 it was 0.73^{47} in grade 5. The lowest observed point-biserial was in grade 7, in 2007–08 it was 0.24; in 2008–09 it was 0.20; in 2009–10 it was 0.16; in 2010–11 it was 0.14. In 2011–12 it was 0.16 in grade 3; in 2012–13 it was 0.19^{48} in grade 5; and in 2013–14 it was 0.17 in grade 6.

Another important trait to examine longitudinally is the impact data and differences over time, presented in Table 79. At the level of *Inconclusive* from 2007–08 to 2008–09 the largest decrease was 3.55% for grade 10, and the largest increase at this level was 3.34% for grade 4. From 2008–09 to 2009–10 the largest decrease at this level was 1.83% for grade 6, and the largest increase was 3.61% for grade 5. From 2009–10 to 2010–11 the largest decrease at the *Inconclusive* level was 3.93% for grade 7, and the only increase was 1.03% for grade 6. From 2010–11 to 2011–12 the largest decrease at this level was 1.96% for grade 6, and the largest increase was 4.50% for grade 3. From 2011–12 to 2012–13 the largest decrease at the *Inconclusive* level was 2.22% for grade 7 and the largest increase was 2.57% for grade 4. From 2012–13 to 2013–14 the largest decrease at the *Inconclusive* level was 4.25% grade 4 and the largest increase was 4.22% at grade 7.

At the *Exploring* level from 2007–08 to 2008–09 there was a 3.90% decrease in students at grade 6, and the largest increase at this level was 3.51% for grade 8. From 2008–09 to 2009–10 the largest decrease in *Exploring* students was 3.50% for grade 5 and the largest increase was 3.86% for grade 6. From 2009–10 to 2010–11 the only decrease at this level was 0.17% for grade 8 and the largest increase was 4.66% for grade 10. From 2010–11 to 2011–12 the largest decrease in *Exploring* students was 3.79% for grade 9 and the largest increase was 4.88% for grade 5. From 2011–12 to 2012–13 the largest decrease at the *Exploring* level was 6.18% for grade 10 and the largest increase was 2.07% for grade 7. From 2012–13 to 2013–14 the largest decrease the *Exploring* level was 3.00% at grade 7 and the largest increase was 4.43% at grade 10.

At the level of *Emerging*, from 2007–08 to 2008–09 there was a decrease of 4.03% in students at grade 4, while there was a 6.25% increase at grade 6. From 2008–09 to 2009–10, the largest decrease in *Emerging* students was 3.98% for grade 6 and the largest increase was 2.53% for grade 5. From 2009–10 to 2010–11 the largest decrease at this level was 3.85% for grade 6 and

⁴² There are three values of 0.23; however, the grade 5 value of 0.231 is the lowest.

⁴³ Difference values are expanded here to additional decimal places, as rounding to fewer digits would obscure differences.

⁴⁴ There are two values of ± 0.002 ; however, the -0.0017 grade 4 value is a smaller difference.

⁴⁵ There are three values of 0.73; however, the 0.729 grade 6 value is the highest.

⁴⁶ There are two values of 0.74; however the grade 9 value of 0.737 is higher.

⁴⁷ There are two values of 0.73; however, the grade 5 value of 0.731 is higher.

⁴⁸ There are two values of 0.19; however, the grade 5 value of 0.193 is lower.

the largest increase was 4.53% for grade 8. From 2010–11 to 2011–12, the largest decrease in *Emerging* students was 4.83% for grade 3, and the largest increase was 2.86% for grade 6. From 2011–12 to 2012–13, at the *Emerging* level there was an increase for all grades ranging from 0.24% for grade 6 to 5.50% for grade 10. From 2012–13 to 2013–14 the largest decrease at the *Emerging* level was 3.32% at grade 8 and the largest increase was 2.04% at grade 3.

At the *Developing* level, from 2007–08 to 2008–09 there was a 5.32% decrease in students in grade 9, while there was an increase of 2.79% in grade 10. From 2008–09 to 2009–10 there was a 1.58% decrease in students in grade 4, while there was an increase of 4.58% in grade 8. From 2009–10 to 2010–11 the largest decrease in *Developing* was 1.35% for grade 3, and the largest increase was 2.09% for grade 7. From 2010–11 to 2011–12 there was a 2.27% decrease in students in grade 5, while there was an increase of 1.41% in grade 9. From 2011–12 to 2012–13 at the *Developing* level the largest decrease was 3.72% for grade 4 and the largest increase was 3.12% for grade 5. From 2012–13 to 2013–14 the largest decrease at the *Developing* level was 3.11% at grade 3 and the largest increase was 2.52% at grade 10.

At the *Novice* level, from 2007–08 to 2008–09 there was a decrease of 1.35% of students in grade 6, with the greatest increase of 2.84% in grade 10. From 2008–09 to 2009–10 there was a 4.09% decrease in students in grade 10, while there was an increase of 0.35% in grade 6. From 2009–10 to 2010–11 the largest decrease in *Novice* was 3.12% for grade 8, and the largest increase was 1.22% for grade 10. From 2010–11 to 2011–12 there was a 3.18% decrease in students in grade 5, while there was an increase of 2.95% in grade 8. From 2011–12 to 2012–13 at the *Novice* level the largest decrease was 2.80% for grade 8 and the largest increase was 2.20% for grade 5. From 2012–13 to 2013–14 the largest decrease at the *Novice* level was 3.22% at grade 5 and the largest increase was 1.55% at grade 9.

From 2007–08 to 2008–09 the percentage of students classified as *Developing* and *Novice* combined decreased by 4.42% in grade 8 and increased by 5.64% in grade 10. From 2008–09 to 2009–10 the percentage of students in the combined *Developing* and *Novice* categories decreased by 5.10% for grade 10 and increased by 4.62% for grade 8. From 2009–10 to 2010–11 the percentage of students in the combined *Developing* and *Novice* categories decreased by 3.71% for grade 8 and increased by 1.65% for grade 6. From 2010–11 to 2011–12 the percentage of students in the combined *Developing* and *Novice* categories decreased by 5.45% for grade 5 and increased by 3.18% for grade 8. In general, the impact data are relatively stable across the administrations. Finally, from 2011–12 to 2012–13 at the combined *Developing* and *Novice* level the largest decrease was 3.82% for grade 4 and the largest increase was 5.33% for grade 5. From 2012–13 to 2013–14 the largest decrease at the combined *Developing* and *Novice* level was 5.45% at grade 5 and the largest increase was at 3.27% at grade 9.

Writing

Figure 17 illustrates the number of students participating in the CSAPA/CoAlt Writing assessment in 2007–08, 2008–09, 2009–10, 2010–11, 2011–12, 2012–13, and 2013–14. It is illustrated that between 2008 and 2014, there has been a variety of increasing and decreasing trends in the number of students across all grades.

Table 68 illustrates the means and standard deviations at the total group level by grade for Writing. It is seen that the 2007–08 to 2008–09 differences are as small as –0.30 points for grade 9 and as large as 4.08 points for grade 10. It is also seen that the means for grades 3, 4, 8, and 9 decreased (from –0.30 to –2.24 points), while the means for grades 5–7 and 10 increased (from 1.15 to 4.08 points). The 2008–09 to 2009–10 differences are as small as –0.35 points for grade 4 and as large as –2.00 points for grade 10. It is also seen that the means for grades 3–5, 7, 9, and 10 decreased (from –0.35 to –2.00 points), while the means for grades 6 and 8 increased (from 0.76 to 0.83

points). The 2009–10 to 2010–11 differences are as small as -0.01 points for grade 9 and as large as -3.67 points for grade 4. It is also seen that the means for grades 3, 4, 6, 9, and 10 decreased (from -0.01 to -3.67 points), while the means for grades 5, 7, and 8 increased (from 0.19 to 1.50 points). The 2010–11 to 2011–12 differences are as small as 0.60 points for grade 9 and as large as -4.44 points for grade 5. It is also seen that the means for grades 3, 5, and 7 decreased (from -1.30 to -4.44 points), while the means for grades 4, 6, and 8–10 increased (from 0.60 to 2.08 points). The 2011–12 to 2012–13 differences are as small as 0.60 points for grade 10 and as large as 4.15 points for grade 5. It is also seen that the mean scores increased for grades 3, 5, and 7–10, whereas the means decreased for grades 4 and 6. Between 2012–13 and 2013–14 the differences were as small as -0.10 in grade 6 and as large as -4.04 in grade 5. Mean scores were seen to increase at grades 3, 4, 6, 9, and 10 (from 0.10 to 1.34) and decrease at grades 5, 7, and 8 (from -1.78 to -4.04 points). This trend is also illustrated in Figure 20 where the mean score as a percent of the total possible score is presented. Given the nature of the Writing assessment, ranging by grade from 105 to 108 possible points, these small differences in mean scores reflect very minor variations in student performance.

Table 71 illustrates the population of students participating in the CSAPA/CoAlt Writing assessment based upon gender and primary disability. The largest change by gender group between 2007–08 and 2008–09 was seen in grade 7 with a 4.98% decrease in male students, while the smallest difference was observed at grade 5 with a 0.60% increase in the percentage of female students. For 2008–09 to 2009–10 the largest difference by gender group is observed for grade 8 female students with a 4.02% increase, while the smallest difference is observed for grade 7 female students with a 0.03% decrease. For 2009–10 to 2010–11 the largest difference by gender group is observed for grade 9 male students with a 4.37% decrease, while the smallest difference is observed for grade 7 male students with a 0.39% increase. For 2010–11 to 2011–12 the largest difference by gender group is observed for grade 10 male students with a 3.28% decrease, while the smallest difference is observed for grade 6 male students with a 0.25% increase. For 2011–12 to 2012–13 the largest difference by gender group is seen for grade 6 with a 1.68% decrease in male students, and the smallest difference is seen in grade 4 with a 0.24% decrease in male students. Between 2012–13 and 2013–14 the largest difference by gender group is seen in grade 3 with a 3.31% decrease in female students, and the smallest difference was in grade 6 with a ± 0.08 decrease in male (+) and female (-) students.

The primary disability classifications have also remained quite stable by grade level as detailed in Table 71 and as illustrated for the overall group in Figure 23, only differences for groups containing students in both administrations are referenced here. The smallest difference in the percentage of students classified with a specific primary disability between 2007–08 and 2008–09 was a zero percent change for the percent of students classified as having “Multiple Disabilities” in grade 3; while from 2008–09 to 2009–10 the smallest difference was a zero percent change for students classified with a “Visual Disability” in grade 7; the smallest difference from 2009–10 to 2010–11 was a -0.02% change for students classified with a “Traumatic Brain Injury” in grade 10; the smallest difference from 2010–11 to 2011–12 was a zero percent change for students classified as “Deaf-Blind” in grades 6, 9, and 10; and the smallest difference from 2011–12 to 2012–13 was a -0.01% change for students classified as “Visual Disability” in grade 4 and for students with the classification “Hearing Disability” in grade 6. From 2012–13 to 2013–14 there were multiple disability classifications with no change. The largest difference between 2007–08 and 2008–09 was a 6.79% increase for “Limited Intellectual Capacity” in grade 6; while for 2008–09 to 2009–10 the largest difference was a 5.99% increase for students classified as “Limited Intellectual Capacity” in grade 7; the largest difference from 2009–10 to 2010–11 was a 5.82% increase for students classified with “Multiple Disabilities” in grade 4; the largest difference from 2010–11 to 2011–12 was a 5.24% increase for students classified with “Multiple Disabilities” in grade 7; the largest difference from 2011–12 to 2012–13 was a 5.95% decrease for students with the

classification “Physical Disability” in grade 6; finally, the largest difference from 2012–13 to 2013–14 was students classified with “Multiple Disabilities” with a 6.28% increase.

The p -values for 2007–08, 2008–09, 2009–10, 2010–11, 2011–12, 2012–13, and 2013–14 are illustrated in Table 74, providing results of the differences between years. The mean p -values remain quite stable across administrations with the smallest difference from 2007–08 to 2008–09 of -0.003 ⁴⁹ at grade 9; the smallest difference from 2008–09 to 2009–10 of -0.006 at grade 7; the smallest difference from 2009–10 to 2010–11 of zero at grade 8; the smallest difference from 2010–11 to 2011–12 of 0.006 at grade 9; the smallest difference from 2011–13 to 2012–13 was an increase of 0.003 for grade 10; and the smallest difference between 2012–13 and 2013–14 was 0.003 at grade 6. The largest difference observed between 2007–08 and 2008–09 was 0.031 for grade 10; the largest difference from 2008–09 to 2009–10 was -0.018 at grade 10; the largest difference observed between 2009–10 and 2010–11 was -0.029 at grade 4; the largest difference observed between 2010–11 and 2011–12 was -0.040 at grade 5; the largest difference observed between 2011–12 and 2012–13 was 0.039 at grade 5; and the largest difference seen from 2012–13 to 2013–14 was -0.04 at grade 5. Equally, the range of p -values remained stable. The highest observed p -value in 2007–08 was 0.86 in grade 8; in 2008–09 it was 0.85 in grade 7; in 2009–10 it was 0.86 in grade 6; in 2010–11 the highest observed p -value was 0.85 in grade 7; in 2011–12 the highest observed p -value was 0.86 in grade 8; in 2012–13 the highest observed p -value was 0.86 in grade 7; and in 2013–14 0.83⁵⁰ in grade 8 was the highest observed p -value. Historically, the lowest observed p -value has always been in grade 10; in 2007–08 was 0.17; in 2008–09 it was 0.19; in 2009–10 it was 0.16; in 2010–11 it was 0.15; in 2012–13 it was 0.18; and in 2013–14 it was 0.17. However, in 2011–12, the lowest observed p -value is 0.19⁵¹, observed in grade 4. In 2013–14, the lowest observed p -value is 0.17, observed in grade 10.

Table 77 illustrates the point-biserial statistics for 2007–08, 2008–09, 2009–10, 2010–11, 2011–12, 2012–13, and 2013–14 and provides results of the differences. The mean point-biserials remain quite stable across administrations with grade 3 historically illustrating the smallest differences across most years with a difference of 0.0002⁵² from 2007–08 to 2008–09; a difference of 0.002 from 2008–09 to 2009–10; and a difference of 0.000 from 2009–10 to 2010–11. The smallest difference between the mean point-biserials for 2010–11 to 2011–12 is -0.004 and occurred in grade 4, and for 2012–13 it was -0.001 in grade 6. The smallest difference between the mean point-biserials for 2012–13 to 2013–14 is 0.0003 at grade 4. The largest difference from 2007–08 to 2008–09 was observed at grade 6 with a difference of -0.018 ; for 2008–09 to 2009–10, the largest difference was 0.023 in grade 9; from 2009–10 to 2010–11, the largest difference was -0.034 in grade 5; from 2010–11 to 2011–12, the largest difference was 0.037 in grade 7; from 2011–12 to 2012–13, the largest difference was -0.018 in grade 7; and from 2012–13 to 2013–14, the largest difference was -0.02 in grade 3. Equally, the range of point-biserial values remained stable. The highest observed point-biserial in 2007–08 was 0.86 in grade 7; in 2008–09 it was 0.88 in grade 8; in 2009–10 it was 0.87 in grade 8; in 2010–11 the highest observed point-biserial was 0.87⁵³ in grade 6; in 2011–12 the highest observed point-biserial was 0.88 in grade 7; and in 2012–13 the highest observed point-biserial was 0.87 in grade 8; and in 2013–14 it was 0.88⁵⁴ in grade 8. The lowest observed point-biserial in 2007–08 was 0.13 in grade 7; in 2008–09 it was 0.17 in grade 9; in 2009–10 it was 0.12 in grade 10; and in 2010–11 the lowest observed point-

⁴⁹ Difference values are expanded here to additional decimal places, as rounding to fewer digits would obscure differences.

⁵⁰ There are four values of 0.83; however the grade 8 value of 0.833 is the highest.

⁵¹ There are two values of 0.19; however, the 0.1857 grade 4 value is lower.

⁵² Difference values are expanded here to additional decimal places, as rounding to fewer digits would obscure differences.

⁵³ There are two values of 0.87; however, the 0.868 grade 6 value is higher.

⁵⁴ There are two values of 0.88; however, the grade 8 value of 0.881 is higher.

biserial was 0.12⁵⁵ in grade 7; in 2011–12 the lowest observed point-biserial was 0.14⁵⁶ in grade 10; in 2012–13 the lowest observed point-biserial was 0.15 in grade 4; and in 2013–14 the lowest was 0.14 in grade 10.

Another important trait to examine over time is the impact data which is presented in Table 80. At the level of *Inconclusive* from 2007–08 to 2008–09 the largest decrease was 4.33% for grade 7; for 2008–09 to 2009–10 the largest decrease was 2.41% for grade 8; from 2009–10 to 2010–11 the largest decrease was 2.37% for grade 7; from 2010–11 to 2011–12 the largest decrease in *Inconclusive* students was 4.61% for grade 8; and from 2011–12 to 2012–13 the largest decrease at the *Inconclusive* level was 2.90% for grade 7. At this level there was a 2.62% increase in students in grade 8; from 2007–08 to 2008–09, the greatest increase from 2008–09 to 2009–10 was 4.15% for grade 9; from 2009–10 to 2010–11 the greatest increase was 2.90% for grade 4; from 2010–11 to 2011–12, the greatest increase in *Inconclusive* students, of 4.02%, occurred at grade 7; and from 2011–12 to 2012–13 the greatest increase at the *Inconclusive* level was 1.37% for grade 10. At the level of *Inconclusive* from 2012–13 to 2013–14 the largest decrease was 1.86% in grade 10 and the largest increase was 3.08% in grade 5.

At the *Exploring* level there was a 6.75% decrease at grade 10 from 2007–08 to 2008–09; from 2008–09 to 2009–10 the largest decrease was 1.44% for grade 7; from 2009–10 to 2010–11 the largest decrease in *Exploring* students was 5.08% for grade 8; from 2010–11 to 2011–12 the largest decrease in *Exploring* students was 2.92% for grade 10; and from 2011–12 to 2012–13 the largest decrease at the *Exploring* level was 3.78% for grade 10. There was an increase in students classified as *Exploring* from 2007–08 to 2008–09 for grade 3 of 2.30%; from 2008–09 to 2009–10 the greatest increase was for grade 6 with a 5.77% increase; from 2009–10 to 2010–11 the greatest increase in *Exploring* students was for grade 10 with a 3.81% increase; from 2010–11 to 2011–12 the greatest increase in *Exploring* students was for grade 5 with a 4.81% increase; and from 2011–12 to 2012–13 the greatest increase at the *Exploring* level was 4.58% for grade 4. At the level of *Exploring* from 2012–13 to 2013–14 the largest decrease was 4.24 in grade 4 and the largest increase was 1.80% in grade 3.

From 2007–08 to 2008–09 there was a 2.86% decrease for grade 5 students classified as *Emerging*; from 2008–09 to 2009–10 the greatest decrease of 5.53% was observed for grade 9; from 2009–10 to 2010–11 the greatest decrease in *Emerging* students, of 6.35%, was observed for grade 10; from 2010–11 to 2011–12 the greatest decrease in *Emerging* students, of 5.48%, was observed for grade 7; and from 2011–12 to 2012–13 the greatest decrease at the *Emerging* level was 2.76% for grade 6. From 2007–08 to 2008–09 there was a 2.42% increase in *Emerging* students at grade 6; from 2008–09 to 2009–10 the greatest increase was 2.11% for grade 7; from 2009–10 to 2010–11 there was a 2.92% increase in *Emerging* students for grade 5; from 2010–11 to 2011–12 there was a 4.07% increase in *Emerging* students for grade 10; and from 2011–12 to 2012–13 the greatest increase at the *Emerging* level was 3.06. At the level of *Emerging* from 2012–13 to 2013–14 the largest decrease was 1.20% in grade 10 and the largest increase was 4.24 in grade 4.

There was a 4.30% decrease in students classified as *Developing* in grade 9 from 2007–08 to 2008–09; from 2008–09 to 2009–10 the greatest decrease of 3.14% was for grade 7; from 2009–10 to 2010–11 the greatest decrease in *Developing* students of 5.83% was for grade 4 students; from 2010–11 to 2011–12 the greatest decrease in *Developing* students of 3.55% was for grade 5 students; and from 2011–12 to 2012–13 the greatest decrease at the *Developing* level was 5.06% for grade 4. From 2007–08 to 2008–09 there was a 6.25% increase at grade 6 in students classified as *Developing*; from 2008–09 to 2009–10 there was a 2.48% increase at grade 4; from

⁵⁵ There are two values of 0.12; however, the 0.118 grade 7 value is lower.

⁵⁶ There are two values of 0.14; however, the 0.139 grade 10 value is lower.

2009–10 to 2010–11 there was a 3.44% increase in *Developing* students at grade 9; from 2010–11 to 2011–12 there was a 3.06% increase in *Developing* students at grade 10; and from 2011–12 to 2012–13 the greatest increase at the *Developing* level was 2.95% for grade 5. At the level of *Developing* from 2012–13 to 2013–14 the largest decrease was 6.89% in grade 5 and the largest increase was 3.96% in grade 9.

Within the *Novice* classification there was a 2.89% decrease at grade 6 (the only decrease evidenced) from 2007–08 to 2008–09; from 2008–09 to 2009–10 the greatest decrease of 4.68% was observed at grade 10; from 2009–10 to 2010–11 the greatest decrease in *Novice* students, of 3.36%, occurred at grade 5; from 2010–11 to 2011–12 the greatest decrease in *Novice* students, of 2.42%, occurred at grade 10; and from 2011–12 to 2012–13 the greatest decrease at the *Novice* level was 0.64% for grade 7. From 2007–08 to 2008–09 there was a 4.69% increase in *Novice* students at grade 10; from 2008–09 to 2009–10 the largest increase was 4.22% for grade 6; from 2009–10 to 2010–11 the largest increase in *Novice* students of 3.44% was for grade 10; from 2010–11 to 2011–12 the largest increase in *Novice* students, of 2.20% was for grade 8; and from 2011–12 to 2012–13 the largest increase at the *Novice* level was 2.89% for grade 5. At the level of *Novice* from 2012–13 to 2013–14 the largest decrease was 2.86% in grade 6 and the largest increase was 1.42% in grade 10.

Within the combined levels of *Developing* and *Novice* there were decreases of 1.17% to 3.77% in the impact data at grades 3, 4, 8, and 9, and increases of 1.91% to 4.99% at grades 5–7 and 10 from 2007–08 to 2008–09. For 2008–09 to 2009–10 there were decreases of 1.18% to 2.77% in the impact data at grades 3, 7, and 10, and increases of 0.23% to 1.95% at grades 4–6, 8, and 9. For 2009–10 to 2010–11 for the percentage of students classified as *Developing* and *Novice* there were decreases of 1.16% to 6.09% at grades 3–6, and increases of 0.45% to 1.41% at grades 7–10. For 2010–11 to 2011–12 the percentage of students classified as *Developing* and *Novice* category decreased by 4.68% for grade 5 and increased by 2.27% for grade 7. In general, the impact data are relatively stable across the four administrations. From 2011–12 to 2012–13 there were decreases at the *Developing* and *Novice* combined levels for grades 3, 4, and 6 ranging from 1.06% to 4.01% and increases for grades 5 and 7–10 ranging from 0.28% to 5.85%. At the level of *Developing* and *Novice* combined from 2012–13 to 2013–14 the largest decrease was in 8.62% in grade 5 and the largest increase was 3.11% in grade 9.

Mathematics

Figure 18 illustrates the number of students participating in the CSAPA/CoAlt Mathematics assessment in 2006–07, 2007–08, 2008–09, 2009–10, 2010–11, 2011–12, 2012–13, and 2013–14. It is shown that between 2008 and 2014 there has been a variety of increasing and decreasing trends in the number of students across all grades.

Table 69 illustrates the means and standard deviations at the total group level by grade for Mathematics. It is seen that the 2006–07 versus 2007–08 differences are as small as 0.70 points for grade 6 and as large as 3.65 points for grade 8, and that the means for grades 3–5 and 7 decrease while the means for grades 6 and 8–10 increase. The 2007–08 versus 2008–09 differences are as small as 0.18 for grade 9 and as large as –4.66 points for grade 8, and the means for grades 3, 4, and 8 decrease, while the means for grades 5–7, 9, and 10 increase. The 2008–09 versus 2009–10 differences are as small as –0.10 points for grade 7 and as large as –4.20 points for grade 5, and the means for grades 3, 5, 7, 9, and 10 decrease, while the means for grades 4, 6, and 8 increase. The 2009–10 versus 2010–11 differences are as small as –0.17 points for grade 9 and as large as –4.13 points for grade 4, and the means for grades 3, 4, 6, 9, and 10 decrease, while the means for grades 5, 7, and 8 increase. The 2010–11 versus 2011–12 differences are as small as 0.23 points for grade 4 and as large as –5.20 points for grade 5, and the means for grades 3, 5, and 7 decrease, while the means for grades 4, 6, and 8–10 increase.

The 2011–12 versus 2012–13 differences were as small as -0.51 for grade 8 and as large as 5.88 for grade 5, and the means for grades 3, 5, 7, 9 and 10 increase while the means for grades 4, 6, and 8 decrease. Between 2012–13 and 2013–14 differences are as small as 0.42 points for grade 3 and as large as 6.17 points for grade 5. The means for grades 3, 4, 9, and 10 increase, while the means for grades 5–8 decrease. This trend is also illustrated in Figure 21 where the mean score as a percent of the total possible score is presented. Given the nature of the Mathematics assessment, ranging by grade from 126 to 171 possible points, these small differences in mean scores reflect very minor variations in student performance.

Table 72 illustrates the population of students participating in the CSAPA/CoAlt Mathematics assessment based upon gender and primary disability. The largest change by gender group between 2006–07 and 2007–08 was -7.61% for grade 6 males, while the smallest difference was observed for grade 4 females with a decrease of 0.23% . For 2007–08 to 2008–09 the largest difference by gender group was observed for grade 7 males with a 5.34% decrease, while the smallest difference was observed for grade 4 females with a 0.11% decrease. The largest change by gender group between 2008–09 and 2009–10 was a 3.04% increase in grade 4 males, while the smallest difference was observed at grade 5 with a 0.16% decrease in female students and a 0.16% increase in male students. The largest change by gender group between 2009–10 and 2010–11 was a 3.92% decrease in grade 9 male students, while the smallest difference was observed at grade 4 with a 0.19% increase in female students. The largest change by gender group between 2010–11 and 2011–12 was a 2.67% increase in grade 9 male students, while the smallest difference was observed at grade 3 with a 0.01% decrease in female students. The largest difference by gender from 2011–12 to 2012–13 was observed at grade 9 with a 1.48% decrease in female students, while the smallest difference was observed at grade 4 with a zero percent change in female students. The largest difference by gender group from 2012–13 to 2013–14 was seen in grade 3 with a decrease of 4.18% for female students, and the smallest change was seen in grade 6 with a change of ± 0.13 for male (+) and female (–) students.

The primary disability classifications have also remained quite stable as detailed in Table 72, by grade level and as illustrated for the total group in Figure 24, only differences for groups containing students in both administrations are referenced here. The smallest difference in the percentage of students classified with a specific primary disability between 2006–07 and 2007–08 was a 0.01% change at grade 9 for the students classified as having “Multiple Disabilities;” for 2007–08 to 2008–09 the smallest difference was a zero percent change for the percent of students classified as having a “Speech/Language Disability” in grade 10; for 2008–09 to 2009–10 the smallest difference was a zero percent change for students classified with “Visual Disability” in grade 7; and for 2009–10 to 2010–11 the smallest difference was a zero percent change for students classified with a “Traumatic Brain Injury” in grade 10; for 2010–11 to 2011–12 the smallest difference was a zero percent change for students classified as “Deaf-Blind” in grades 6, 9, and 10, for 2011–12 to 2012–13 the smallest differences were a -0.01% change in students with the classification “Visual Disability” in grade 4 and a -0.01% change in students with the classification “Traumatic Brain Injury” in grade 9, and for 2012–13 to 2013–14 there were multiple classifications with no change. The largest difference between 2006–07 and 2007–08 was -5.17% for grade 3 “Limited Intellectual Capacity;” for 2007–08 to 2008–09 the largest difference was -6.55% for grade 6 students classified as having “Multiple Disabilities;” for 2008–09 to 2009–10 the greatest difference was 6.22% for students in grade 4 classified with “Limited Intellectual Capacity;” for 2009–10 to 2010–11 the greatest difference was 5.54% for students in grade 5 classified with “Limited Intellectual Capacity;” for 2010–11 to 2011–12 the greatest difference was 5.71% for students in grade 7 classified with “Multiple Disabilities;” for 2011–12 to 2012–13 the greatest difference was -5.85% in grade 6 students with the classification “Physical Disability;” and between 2012–13 and 2013–14 the greatest difference was 7.65% in grade 7 for students with the classification “Multiple Disabilities.”

The p -values for 2006–07, 2007–08, 2008–09, 2009–10, 2010–11, 2011–12, 2012–13, and 2013–14 are illustrated in Table 75 providing results of the difference between years. The mean p -values remain quite stable across administrations with the smallest 2006–07 to 2007–08 difference of 0.007⁵⁷ at grade 6; the smallest 2007–08 to 2008–09 difference of 0.000 at grade 7; the smallest 2008–09 to 2009–10 difference of –0.002 at grade 7; the smallest 2009–10 to 2010–11 difference of –0.003 at grade 9; the smallest 2009–10 to 2010–11 difference of 0.001 at grade 4; the smallest 2011–12 to 2012–13 difference was 0.007⁵⁸ at grades 8 and 9; and the smallest 2012–13 to 2013–14 difference was 0.002 at grade 9. Grade 8 illustrated the largest difference for 2006–07 to 2007–08 and 2007–08 to 2008–09 with differences of 0.025 and –0.032, respectively. From 2008–09 to 2009–10 the greatest difference was –0.022 for grade 5, from 2009–10 to 2010–11 the greatest difference was –0.029 for grade 4; from 2009–10 to 2010–11 the greatest difference was –0.035 for grade 5; from 2011–12 to 2012–13 the greatest difference was 0.036 for grade 5; and from 2012–13 to 2013–14 the greatest difference was –0.04 in grade 5. Equally the range of p -values remained stable. The highest observed p -values from 2006–07 through 2009–10 were at grade 4 with values of 0.90 (2006–07); 0.91 (2007–08); 0.89 (2008–09); and 0.89 (2009–10). In 2010–11, the highest observed p -value was 0.89 at grade 3; in 2011–12 the highest observed p -value was 0.86 at grade 6; in 2012–13 the highest observed p -value was 0.86 at grade 4; and in 2013–14 the highest was 0.88 in grade 3. The lowest observed p -values across all years were at grade 10 with values of 0.08 (2006–07); 0.07 (2007–08); 0.09 (2008–09); 0.08 (2009–10); 0.06 (2010–11); 0.07 (2011–12); and 0.09 (2012–13 and 2013–14).

Table 78 illustrates the point-biserial statistics for 2006–07, 2007–08, 2008–09, 2009–10, 2010–11, 2011–12, 2012–13, and 2013–14 and provides results of the differences. The mean point-biserials remain quite stable across administrations with grade 9 illustrating the smallest differences of –0.001⁵⁹ for 2006–07 to 2007–08 and –0.005 for 2007–08 to 2008–09, from 2008–09 to 2009–10 the smallest difference of 0.002 was for grade 8; from 2009–10 to 2010–11 the smallest difference in point-biserials was 0.0049 for grade 3; from 2010–11 to 2011–12 the smallest difference in point-biserials was 0.0001 for grade 3; from 2011–12 to 2012–13 the smallest difference was ± 0.003 for grades 3 (–) and 5 (+); and from 2013–14 the smallest difference was –0.0001 in grade 8. Grade 6 illustrated the largest difference in point-biserials of 0.030 from 2006–07 to 2007–08 and –0.040 from 2007–08 to 2008–09, while from 2008–09 to 2009–10 the largest difference of –0.019 was observed at grade 7, from 2009–10 to 2010–11 the largest difference in point-biserials of –0.020 was observed at grade 10, and from 2010–11 to 2011–12 the largest difference in point-biserials of 0.021 was observed at grade 7. From 2011–12 to 2012–13 the largest difference in point-biserials was 0.022 for grade 10. From 2012–13 to 2013–14 the largest difference was –0.03 for grade 3. Equally, the range of point-biserial values remained stable. The highest observed point-biserial in 2006–07 was 0.81 in grade 9; in 2007–08 it was 0.82 in grade 6; in 2008–09 it was 0.83 in grade 3; in 2009–10 it was 0.82 in grade 3; in 2010–11 it was 0.82 in grade 3; in 2011–12 the highest observed point-biserial was 0.83 in grade 4; in 2012–13 the highest observed point-biserial was 0.82 in grade 3; and for 2013–14 the highest point-biserial was 0.80⁶⁰ in grade 3. The lowest observed point-biserial across previous years was observed in grade 10 with a 2006–07 value of 0.12; a 2007–08 value of 0.09; a 2008–09 value of 0.14; a 2009–10 value of 0.09; a 2010–11 value of 0.03; and a 2011–12 value of 0.07. In 2012–13, the lowest

⁵⁷ Difference values are expanded here to additional decimal places, as rounding to fewer digits would obscure differences.

⁵⁸ There are five values of ± 0.01 ; however the grades 8 (–) and 9 (+) values of ± 0.007 are the smallest differences.

⁵⁹ Difference values are expanded here to additional decimal places, as rounding to fewer digits would obscure differences.

⁶⁰ There are four values of 0.80; however, the grade 3 value of 0.804 is the highest.

observed point-biserial was a value of 0.03 in grade 10. In 2013–14, the lowest point-biserial was 0.08 in grade 8.

The impact data for 2006–07, 2007–08, 2008–09, 2009–10, 2010–11, 2011–12, 2012–13, 2013–14 as well as the differences are presented in Table 81. At the level of *Inconclusive*, from 2006–07 to 2007–08 the largest decrease was 3.65% for grade 10; from 2007–08 to 2008–09 the greatest decrease was 4.47% for grade 6; from 2008–09 to 2009–10 the largest decrease was 3.08% for grade 8; from 2009–10 to 2010–11 the largest decrease was 3.88% for grade 7; from 2010–11 to 2011–12 the largest decrease was 2.35% for grade 8; from 2011–12 to 2012–13 the largest decrease was 2.38% for grade 7; and from 2012–13 to 2013–14 the largest decrease was 1.76% in grade 10. The largest increase from 2006–07 to 2007–08 was 6.10% for grade 7; from 2007–08 to 2008–09 was 3.73% for grade 8; from 2008–09 to 2009–10 the largest increase was 2.98% for grade 5; from 2009–10 to 2010–11 the largest increase was 1.84% for grade 8; from 2010–11 to 2011–12 the largest increase was 3.58% for grade 7; from 2011–12 to 2012–13 the largest increase was 1.51% for grade 10; and from 2012–13 to 2013–14 the largest increase was 2.04%.

At the *Exploring* level, from 2006–07 to 2007–08 all values decreased, from 0.02% for grade 10 to 2.99% for grade 8; for 2007–08 to 2008–09 the largest decrease was 2.07% for grade 9; from 2008–09 to 2009–10 the largest decrease was 3.03% for grade 10; from 2009–10 to 2010–11 the largest decrease was 4.18% for grade 8; from 2010–11 to 2011–12 the largest decrease was 2.37% for grade 4; from 2011–12 to 2012–13 the largest decrease was 4.53% for grade 10; and from 2012–13 to 2013–14 the largest decrease was 4.11% in grade 9. At the *Exploring* level, the largest increase from 2007–08 to 2008–09 was 3.43% for grade 5; from 2008–09 to 2009–10 the largest increase was 3.60% for grade 4; from 2009–10 to 2010–11 the largest increase was 5.77% for grade 10; from 2010–11 to 2011–12 the largest increase was 4.07% for grade 3; from 2011–12 to 2012–13 the largest increase was 3.47% for grade 4; and from 2012–13 to 2013–14 the largest increase was 3.42% in grade 7.

At the *Emerging* level, from 2006–07 to 2007–08 the largest decrease was 4.72% for grade 8; from 2007–08 to 2008–09 it was 7.05% for grade 5; from 2008–09 to 2009–10 it was 2.51% for grade 4; and from 2009–10 to 2010–11 the largest decrease was 2.14% for grade 7; from 2010–11 to 2011–12 the largest decrease was 5.56% for grade 8, from 2011–12 to 2012–13 the largest decrease was 6.51% for grade 3, and from 2012–13 to 2013–14 the largest decrease was 2.96% in grade 10. The largest increase from 2006–07 to 2007–08 was 2.43% for grade 10; from 2007–08 to 2008–09 it was 3.20% for grade 8; from 2008–09 to 2009–10 the largest increase was 3.39% for grade 5; from 2009–10 to 2010–11 the largest increase in students at the *Emerging* level was for grade 6 with a 2.63% increase; from 2010–11 to 2011–12 the largest increase in students at the *Emerging* level was for grade 3 with a 2.41% increase, from 2011–12 to 2012–13 the largest increase was for grade 8 with a 4.80% increase, and from 2012–13 to 2013–14 the largest increase was 6.04% in grade 3.

At the *Developing* level, from 2006–07 to 2007–08 the largest decrease was 5.57% for grade 7; from 2007–08 to 2008–09 it was 7.00% for grade 8; from 2008–09 to 2009–10 it was 4.22% for grade 9; from 2009–10 to 2010–11 the largest decrease was 6.17% for grade 4; from 2010–11 to 2011–12 the largest decrease was 6.37% for grade 3; from 2011–12 to 2012–13 the largest decrease was 1.54% for grade 4; and from 2012–13 to 2013–14 the largest decrease was 5.22% in grade 8. The largest increase from 2006–07 to 2007–08 was 6.25% for grade 4; from 2007–08 to 2008–09 it was 5.55% for grade 6; from 2008–09 to 2009–10 it was 4.08% for grade 4; from 2009–10 to 2010–11 the largest increase in *Developing* was for grade 9 with 2.83%; from 2010–11 to 2011–12 the largest increase in *Developing* was for grade 8 with 3.53%; from 2011–12 to 2012–13 the largest increase was 7.15% for grade 3; and from 2012–13 to 2013–14 and the largest increase was 3.03% in grade 10.

At the *Novice* level, from 2006–07 to 2007–08 the largest decrease was 6.11% for grade 4; from 2007–08 to 2008–09 it was 3.83% for grade 6; from 2008–09 to 2009–10 it was 3.21% for grade 4; and from 2009–10 to 2010–11 the largest decrease was 2.86% for grade 10. In 2010–11 to 2011–12 there were no decreases in any grade. From 2011–12 to 2012–13 the largest decrease was 6.01% for grade 6. From 2012–13 to 2013–14 the largest decrease was 3.92% in grade 5. The largest increase from 2006–07 to 2007–08 was 5.61% for grade 6; from 2007–08 to 2008–09 it was 2.80% for grade 10; from 2008–09 to 2009–10 it was 5.50% for grade 6; from 2009–10 to 2010–11 the largest increase in *Novice* was 2.47% for grade 7; from 2010–11 to 2011–12 the largest increase in *Novice* was 4.12% for grade 6; from 2011–12 to 2012–13 the largest increase was 2.74% for grade 5; and from 2012–13 to 2013–14 the largest increase was 1.74% in grade 6.

When combining *Developing* and *Novice* from 2006–07 to 2007–08 the largest decrease was 2.91% for grade 7; from 2007–08 to 2008–09 it was 7.29% for grade 8; from 2008–09 to 2009–10 it was 6.11% for grade 5; from 2009–10 to 2010–11 the largest decrease was 7.17% for grade 10; from 2010–11 to 2011–12 the largest decrease was 5.96% for grade 3; from 2011–12 to 2012–13 the largest decrease was 3.52% for grade 8; and from 2012–13 to 2013–14 the largest decrease was 8.48% in grade 5. The largest increase in the percentage of students classified as *Developing* and *Novice* from 2006–07 to 2007–08 was 7.62% for grade 8; from 2007–08 to 2008–09 it was 6.21% for grade 5; from 2008–09 to 2009–10 it was 2.17% for grade 8; from 2009–10 to 2010–11 the largest increase was 4.45% in grade 7; from 2010–11 to 2011–12 the largest increase in the percentage of students classified as *Developing* and *Novice* was 5.19% in grade 8; from 2011–12 to 2012–13 the largest increase was 7.66% for grade 3; and from 2012–13 to 2013–14 the largest increase was 3.42% in grade 4. In general, the impact data are relatively stable across administrations.

Conclusion

The 2013–14 CoAlt Operational Technical Report documents the processes and procedures implemented to support the 2013–14 spring CoAlt administration by CTB and the CDE. The Technical Report shows how the applied processes and procedures, as well as the results, relate to the issues of validity and reliability, the *Standards for Educational and Psychological Testing* (AERA, APA, & NCME, 1999), and the federal Peer Review process.

The CSAPA/ CoAlt began with the item and test development process. Alternate assessment standards were developed in accordance with NCLB regulations, requiring that the content of alternate assessments be comparable to that of regular state assessments, and that they must show clear linkage to the content standards for the grade in which the student is enrolled. The 2013–14 CoAlt forms consisted of custom MC and CR performance task items measuring skills associated with the Colorado Model Content Standards and associated assessment frameworks for Reading, Writing, and Mathematics. Raw scores incorporating both content knowledge and the level of independence with which the student responds to the item are reported and analyzed at the level of the item, the standard, and the total score for the content area. The reliability and validity of all applied processes, procedures, and the results were evaluated. A brief content summary of the Technical Report is provided below:

Test Development (Part 2)

- Items for spring 2014 CoAlt were the same as those used in the forms dating back to spring 2008.
- Review of items using classical item statistics yielded no rationale for item scoring suppressions.

Description of the Population (Part 3)

- Students typically have significant limitations in intellectual functioning, in adaptive behavior, and in academic functioning.
- The student's IEP team determines participation in the TCAP or CoAlt based upon eligibility criteria provided by the CDE.
- Population characteristics
 - Participation rate ranged from a minimum of 518 (grade 9 Reading and Writing) and as many as 690 (grade 5 Writing).
 - Majority male students, 60% (grade 8 Mathematics) to 69% (grade 3 Mathematics)
 - Majority White students, 45% (grade 4 Writing) to 53% (grade 10 Mathematics)
 - Majority Language Proficiency status of Not Applicable, 79% (grade 6 Reading) to 85% (grade 10 Mathematics)
 - Free/Reduced Price Lunch Program eligibility is largely divided between not eligible and Free Lunch eligible.
 - Free lunch eligibility ranges from 40% (grade 9 Mathematics) to 53% (grade 4 Writing)
 - Not eligible ranges from 39% (grade 4 Writing) to 48% (grade 9 Mathematics)
 - Most common primary disability of either "Multiple Disabilities," "Limited Intellectual Capacity," or "Autism"
 - Most students did not use expanded accommodations, beyond those built into the assessment, such as one-on-one administration with no time limits, in order for them to access the CoAlt items.

Test Administration (Part 4)

- District and School Assessment Coordinators and Special Education teachers are trained on the administration of the CoAlt, with a train-the-trainer model of training provided by the Unit of Student Assessment within the CDE.
- The test administration window was from February 5, 2014 through March 14, 2014.
- Test items appear in a separate book for each grade level and content area, with the exception of Reading and Writing, which are packaged in a single book, but with a clear differentiation between the sections.

Scoring (Part 5)

- Two scoring rubrics are used to collect student responses and provide item-by-item scores.
 - One rubric is for MC items (0 to 3 point score range).
 - One rubric is for CR items (0 to 6 point score range).
- Both rubrics incorporate the level of independence with which a student responds to the item within the scoring for the item.
- Scoring is automated based upon a scannable answer document; teachers/test examiners do not apply the scoring rubrics.

Standard Setting (Part 6)

- The profile sorting method of standard setting was utilized in 2007 for the Mathematics, as well as in 2008 for the Reading and Writing forms (all grade levels).
- The 2007 and 2008 cut scores have been implemented again, as was done in 2008–09, 2009–10, and 2010–11 CSAPA, and 2011–12, 2012–13 CoAlt without revision, within the context of the 2013–14 CoAlt administration.

Analyses and Results (Part 7)

- Item level statistics, including item difficulty (p -value) and item discrimination (point-biserial correlation), were evaluated both with and without the level of independence with which the student responded to the item included in the calculation of the statistics.
 - Including level of independence
 - p -value minimum = 0.09 in grade 10 Mathematics
 - p -value maximum = 0.88 in grade 3 Mathematics
 - Point-biserial minimum = 0.08 in grade 8 Mathematics
 - Point-biserial maximum = 0.88 in grade 8 Writing
 - Not including level of independence
 - p -value minimum = 0.06 in grade 10 Mathematics
 - p -value maximum = 0.86 in grade 3 Mathematics
 - Point-biserial minimum = 0.05 in grade 8 Mathematics
 - Point-biserial maximum = 0.85 in grade 7 Writing
- Student performance on individual content standards (expanded benchmarks) was reported in terms of the percentage of items within each expanded benchmark students answered correctly (an average p -value across the items within each expanded benchmark).
 - Over all grade levels and content areas, the least difficult expanded benchmark was for grade 9 Writing, “Demonstrate an understanding that writing communicates a message” with a mean p -value = 0.75.
 - Over all grade levels and content areas, the most difficult expanded benchmark was for grade 10 Mathematics, “Identifies, describes, and creates patterns to solve problems” with a mean p -value = 0.34.
- Summary descriptive statistics for the reported raw scores were reported for the total group as well as relevant subgroups such as: gender, race/ethnicity, ELL, Free/Reduced Price Lunch Program eligibility, primary disability, and expanded accommodation.
 - Reading total group
 - Means range from 50.76 (grade 10, 102 possible points) to 64.00 (grade 6, 105 possible points)
 - Standard deviations range from 24.04 (grade 3, 105 possible points) to 27.03 (grade 5, 105 possible points)
 - Writing total group
 - Means range from 54.19 (grade 3, 105 possible points) to 63.96 (grade 6, 105 possible point)
 - Standard deviations range from 27.24 (grade 3, 105 possible points) to 30.52 (grade 7, 108 possible points)
 - Mathematics total group
 - Means range from 71.42 (grade 7, 132 possible points) to 96.02 (grade 5, 171 possible points)
 - Standard deviations range from 33.09 (grade 3, 126 possible points) to 46.85 (grade 5, 171 possible points)

- The percentage of students at each performance level was analyzed. The range for each performance level was
 - *Inconclusive*: 6.33% (grade 4 Mathematics) to 16.89% (grade 5 Mathematics)
 - *Exploring*: 15.90% (grade 6 Mathematics) to 29.33% (grade 10 Reading)
 - *Emerging*: 19.56% (grade 5 Reading) to 37.01% (grade 3 Reading)
 - *Developing*: 14.60% (grade 3 Reading) to 33.74% (grade 6 Reading)
 - *Novice*: 2.71% (grade 3 Writing) to 25.84% (grade 6 Reading)
 - *Developing and Novice Combined*: 18.34% (grade 3 Reading) to 49.24% (grade 6 Mathematics)
- Data files containing the demographic information of each student, as well as item responses and raw scores for all content areas, were provided to the CDE.

Summary of Results—Reliability and Validity (Part 8)

- The reliability of the 2013–14 CoAlt was estimated in four ways
 - Point-biserial correlation—item specific reliability
 - Including level of independence ranges: 0.08 (grade 8 Mathematics) to 0.88 (grade 8 Writing)
 - Not including level of independence ranges: 0.05 (grade 10 Mathematics) to 0.85 (grade 7 Writing)
 - Internal consistency using Cronbach’s alpha—total test reliability ranges
 - Reading: 0.91 (grade 10) to 0.94 (grade 6)
 - Writing: 0.92 (grade 3) to 0.94 (grade 7)
 - Mathematics: 0.93 (grade 10) to 0.95 (grade 5)
 - Standard error of measurement (SEM)—total test reliability ranges
 - Reading: 6.66 (grade 6, 105 possible points) to 7.34 (grade 10, 102 possible points)
 - Writing: 7.44 (grade 9, 105 possible points) to 7.80, (grade 4, 108 possible points)
 - Mathematics: 8.13 (grade 3, 126 possible points) to 10.13 (grade 5, 171 possible points)
 - Classification consistency and accuracy—total test reliability
 - Probability of a correct classification ranges from 0.57 (grade 8 Writing) to 0.70 (grade 6 Reading).
 - Probability of accuracy ranges from 0.64 (grade 8 Writing) to 0.79 (grade 6 Reading).
 - Kappa ranges from 0.46 (grade 8 Writing) to 0.59 (grade 6 Reading).
- The Technical Report provided detailed documentation concerning the different phases of the testing cycle and highlighted the meaning and significance of the procedures, processes, and results in terms of validity and their relationship to the *Standards for Educational and Psychological Testing* (AERA, APA, & NCME, 1999). The final issues in validity were addressed in Part 8.
 - Assessment purpose
 - Content validity evidence
 - Internal structure of the assessment
 - Population of students participating in the assessment
 - Reliability

Special Studies (Part 9)

- The Level of Independence was examined across grades by content area across all items in each content area.
 - Level 1 ranges: 4.60% (Reading) to 6.32% (Mathematics)
 - Level 2 ranges: 2.92% (Writing) to 4.53% (Mathematics)
 - Level 3 ranges: 4.83% (Reading) to 8.57% (Mathematics)
 - Level 4 ranges: 80.56% (Mathematics) to 87.62% (Reading)
- An additional reliability coefficient (KR20) was used to describe the consistency of the levels of independence performed by students and documented by test examiners.
 - All coefficients were very high, at 0.95 and above.
- Test examiner coding errors have remained stable in comparison to prior years.
 - Indicating Level 1 for Level of Independence, but providing a correct answer ranges: 0.04% (grade 6 Writing) to 0.57% (grade 9 Writing)
 - Indicating Levels 2–4 for Level of Independence, but not providing a response ranges: 0.00% (grade 8 Reading) to 0.33% (grade 3 Mathematics)
- Range of scores across students—examining the number of students at the ceiling and the floor
 - The most students obtained the ceiling in grade 6 Writing (5 students obtained the maximum possible score).
 - The most students obtained the floor in grade 4 Reading (25 students obtained the minimum possible score).
- Average Level of Independence related to Proficiency Level
 - The proficiency level of *Novice* contains only average Level of Independence of 3.5 to 4.0 for all content areas.
 - The combined Proficiency level of *Developing* and *Novice* contains either average Level of Independence of 3.5 to 4.0 and 3.0 to 4.0, or average Level of Independence of 3.5 to 4.0 for all content areas.
 - The average Level of Independence equal to 1.0 to 1.4 always scores as *Inconclusive* for all content areas.

Longitudinal Analyses (Part 10)

- Completed for all three content areas
 - Reading and Writing (all grades) included 2007–08, 2008–09, 2009–10, 2010–11, 2011–12, 2012–13, and 2013–14 assessment years.
 - Mathematics examined 2006–07, 2007–08, 2008–09, 2009–10, 2010–11, 2011–12, 2012–13, and 2013–14.
- Descriptive statistics including
 - Number of students participating
 - Reading and Writing both 2007–08 to 2008–09:
 - increased at grades 3–5, 7, 8, and 10
 - decreased at grades 6 and 9
 - Reading and Writing both 2008–09 to 2009–10:
 - increased at grades 4–7 and 9
 - decreased at grades 3, 8, and 10
 - Reading and Writing both 2009–10 to 2010–11:
 - increased at grades 5, 7, and 10
 - decreased at grades 3, 4, 6, 8, and 9
 - Reading and Writing both 2010–11 to 2011–12:
 - increased at grades 3, 4, 6, 8, and 10
 - decreased at grades 5, 7, and 9

- Reading and Writing both 2011–12 to 2012–13;
 - increased at grades 3–7 and 9
 - decreased at grades 8 and 10
- Reading 2012–13 to 2013–14;
 - increased at grades 4–8 and 10
 - decreased at grades 3 and 9
- Writing 2012–13 to 2013–14;
 - increased at grades 5–8 and 10
 - decreased at grades 3 and 9
 - remained the same at grade 4
- Mathematics 2006–07 to 2007–08
 - increased at grades 3–7, 9, and 10
 - decreased at grade 8
- Mathematics 2007–08 to 2008–09
 - increased at grades 3–8 and 10
 - decreased at grade 9
- Mathematics 2008–09 to 2009–10
 - increased at grades 4–7 and 9
 - decreased at grades 3, 8, and 10
- Mathematics 2009–10 to 2010–11
 - increased at grades 5, 7, and 10
 - decreased at grades 3, 4, 6, 8, and 9
- Mathematics 2010–11 to 2011–12
 - increased at grades 3, 4, 6, 8, and 10
 - decreased at grades 5, 7, and 9
- Mathematics 2011–12 to 2012–13
 - increased at grades 3–7 and 9
 - decreased at grades 8 and 10
- Mathematics 2012–13 to 2013–14
 - increased at 4–8 and 10
 - decreased at 3 and 9
- Percentage change over time (largest changes observed)
 - Gender
 - 2006–07 to 2007–08 Mathematics grade 6, males with a 7.61% decrease
 - 2007–08 to 2008–09 Mathematics grade 7, males with a 5.34% decrease
 - 2008–09 to 2009–10 Writing grade 8, females with a 4.02% increase
 - 2009–10 to 2010–11 Writing grade 9, males with a 4.37% decrease
 - 2010–11 to 2011–12 Writing grade 10, males with 3.28% decrease
 - 2011–12 to 2012–13 Reading grade 10, males with a 1.88% increase
 - 2012–13 to 2013–14 Mathematics grade 3, females with a 4.18% decrease

- Primary disability
 - 2006–07 to 2007–08 Mathematics grade 3, Limited Intellectual Capacity with a decrease of 5.17%
 - 2007–08 to 2008–09 Reading grade 6, Limited Intellectual Capacity with an increase of 7.17%
 - 2008–09 to 2009–10 Mathematics grade 4, Limited Intellectual Capacity with an increase of 6.22%
 - 2009–10 to 2010–11 Writing grade 4, Multiple Disabilities with an increase of 5.82%
 - 2010–11 to 2011–12 grade 7 Mathematics, Multiple Disabilities with an increase of 5.71%
 - 2011–12 to 2012–13 grade 6 Reading, Physical Disability with a decrease of 5.97%
 - 2012–13 to 2013–14 grade 7 Mathematics, Multiple Disabilities with an increase of 7.65%
- Differences in raw score means and standard deviations over time
 - Reading 2007–08 to 2008–09
 - The mean score increases at grades 5–7 and 10 and decreases at grades 3, 4, 8, and 9.
 - The standard deviation increases at grades 3, 4, and 9 and decreases at grades 5–8 and 10.
 - Reading 2008–09 to 2009–10
 - The mean score increases at grades 6 and 8 and decreases at grades 3–5, 7, 9, and 10.
 - The standard deviation increases at grades 5, 6, 8, and 9 and decreases at grades 3, 4, 7, and 10.
 - Reading 2009–10 to 2010–11
 - The mean score increases at grades 5–7 and decreases at grades 3, 4, and 8–10.
 - The standard deviation increases at grades 4 and 6 and decreases at grades 3, 5, and 7–10.
 - Reading 2010–11 to 2011–12
 - The mean score increases at grades 6, 8, 9, and 10 and decreases at grades 3, 4, 5, and 7.
 - The standard deviation increases at grades 3, 5, 7, 8, and 9 and decreases at grades 4, 6, and 10.
 - Reading 2011–12 to 2012–13
 - The mean score increases at grades 3, 5, and 7–10 and decreases at grades 4 and 6.
 - The standard deviation increases at grades 4, 6, and 10 and decreases at grades 3, 5, and 7–9.
 - Reading 2012–13 to 2013–14
 - The mean score increases at grades 4 and 9 and decreases at grades 3, 5–8, and 10.
 - The standard deviation increases at grades 5–9 and decreases at grades 3, 4, and 10.

- Writing 2007–08 to 2008–09
 - The mean score increases at grades 5–7 and 10 and decreases at grades 3, 4, 8, and 9.
 - The standard deviation increases at grades 3, 4, and 8 and decreases at grades 5–7, 9, and 10.
- Writing 2008–09 to 2009–10
 - The mean score increases at grades 6 and 8 and decreases at grades 3–5, 7, 9, and 10.
 - The standard deviation increases at grades 3, 5, and 7–9 and decreases at grades 4, 6, and 10.
- Writing 2009–10 to 2010–11
 - The mean score increases at grades 5, 7, and 8 and decreases at grades 3, 4, 6, 9, and 10.
 - The standard deviation increases at grades 3, 4, 6, and 10 and decreases at grades 5 and 7–9.
- Writing 2010–11 to 2011–12
 - The mean score increases at grades 4, 6, 8, 9, and 10 and decreases at grades 3, 5, and 7.
 - The standard deviation increases at grades 5, 7, and 9 and decreases at grades 3, 4, 6, 8, and 10.
- Writing 2011–12 to 2012–13
 - The mean score increases at grades 3, 5, and 7–10 and decreases at grades 4 and 6.
 - The standard deviation increases at grades 2, 6, and 10 and decreases at grades 3, 5, and 7–9.
- Writing 2012–13 to 2013–14
 - The mean score increases at grades 3, 4, 6, 9, and 10 and decreases at grades 5, 7, and 8.
 - The standard deviation increases at grades 5 and 7–9 and decreases at grades 3, 4, 6 and 10.
- Mathematics 2006–07 to 2007–08
 - The mean score increases at grades 6 and 8–10 and decreases at grades 3–5 and 7.
 - The standard deviation increases at grades 3 and 5–9 and decreases at grades 4 and 10.
- Mathematics 2007–08 to 2008–09
 - The mean score increases at grades 5–7, 9, and 10 and decreases at grades 3, 4, and 8.
 - The standard deviation increases at grades 3–5, 8, and 10 and decreases at grades 6, 7, and 9.
- Mathematics 2008–09 to 2009–10
 - The mean score increases at grades 4, 6, and 8 and decreases at grades 3, 5, 7, 9, and 10.
 - The standard deviation increases at grades 5, 6, and 9 and decreases at grades 3, 4, 7, 8, and 10.
- Mathematics 2009–10 to 2010–11
 - The mean score increases at grades 5, 7, and 8 and decreases at grades 3, 4, 6, 9, and 10.
 - The standard deviation increases at grades 3, 4, 6, and 8 and decreases at grades 5, 7, 9, and 10.

- Mathematics 2010–11 to 2011–12
 - The mean score increases at grades 4, 6, 8, 9, and 10 and decreases at grades 3, 5, and 7.
 - The standard deviation increases at grades 3, 4, 5, 6, 7, 9, and 10 and decreases at 8.
- Mathematics 2011–12 to 2012–13
 - The mean score increases at grades 3, 5, 7, 9, and 10 and decreases at grades 4, 6, and 8.
 - The standard deviation increases at grade 10 and decreases at grades 3–9.
- Mathematics 2012–13 to 2013–14
 - The mean score increases at grades 3, 4, 9, and 10 and decreases at grades 5–8.
 - The standard deviation increases at grade 5–10 and decreases at grades 3 and 4.
- Changes in item statistics (including Level of Independence)
 - *P*-values
 - High values
 - 2006–07 Mathematics ranged from 0.72 in grade 9 to 0.90 in grade 4
 - 2007–08 ranged from 0.70 in grade 10 Reading to 0.91 in grade 4 Mathematics
 - 2008–09 ranged from 0.76 in grade 10 Reading to 0.89 in grade 5 Science
 - 2009–10 ranged from 0.74 in grade 10 Reading to 0.89 in grade 4 Mathematics
 - 2010–11 ranged from 0.74 in grade 10 Reading to 0.89 in grade 3 Mathematics
 - 2011–12 ranged from 0.75 in grade 10 Reading to 0.89 in grade 6 Reading
 - 2012–13 ranged from 0.74 in grade 10 Reading to 0.89 in grade 5 Reading
 - 2013–14 ranged from 0.75 in grade 10 Reading to 0.88 in grade 3 Mathematics
 - Mean values
 - 2006–07 Mathematics ranged from 0.41 in grade 10 to 0.67 in grade 3
 - 2007–08 ranged from 0.44 in grade 10 Mathematics to 0.71 in grade 8 Science
 - 2008–09 ranged from 0.45 in grade 10 Mathematics to 0.70 in grade 8 Science
 - 2009–10 ranged from 0.45 in grade 10 Mathematics to 0.70 in grade 8 Science
 - 2010–11 ranged from 0.42 in grade 10 Mathematics to 0.70 in grade 8 Science
 - 2011–12 ranged from 0.44 in grade 10 Mathematics to 0.72 in grade 8 Science
 - 2012–13 ranged from 0.45 in grade 10 Mathematics to 0.71 in grade 8 Science

- 2013–14 ranged from 0.46 in grade 10 Mathematics to 0.62 in grade 4 Mathematics
- Low values
 - 2006–07 Mathematics ranged from 0.08 in grade 10 to 0.39 in grade 3
 - 2007–08 ranged from 0.07 in grade 10 Mathematics to 0.42 in grade 5 Science
 - 2008–09 ranged from 0.09 in grade 10 Mathematics to 0.41 in grade 5 Science
 - 2009–10 ranged from 0.08 in grade 10 Mathematics to 0.39 in grade 5 Science
 - 2010–11 ranged from 0.06 in grade 10 Mathematics to 0.41 in grade 5 Science
 - 2011–12 ranged from 0.07 in grade 10 Mathematics to 0.37 in grade 5 Science
 - 2012–13 ranged from 0.09 in grade 10 Mathematics to 0.40 in grade 5 Science
 - 2013–14 ranged from 0.09 in grade 10 Mathematics to 0.37 in grade 3 Mathematics
- Point-biserial values
 - High values
 - 2006–07 Mathematics ranged from 0.74 in grade 7 to 0.81 in grade 9
 - 2007–08 ranged from 0.68 in grade 4 Reading to 0.86 in grade 7 Writing
 - 2008–09 ranged from 0.68 in grade 10 Reading to 0.88 in grade 8 Writing
 - 2009–10 ranged from 0.69 in grade 10 Reading to 0.87 in grade 8 Writing
 - 2010–11 ranged from 0.68 in grade 7 Reading to 0.87 in grade 6 Writing
 - 2011–12 ranged from 0.68 in grade 10 Reading to 0.88 in grade 7 Writing
 - 2012–13 ranged from 0.67 in grade 8 Reading to 0.87 in grade 8 Writing
 - 2013–14 ranged from 0.67 in grade 3 Reading to 0.88 in grade 8 Writing
 - Mean values
 - 2006–07 Mathematics ranged from 0.52 in grade 10 to 0.63 in grade 4
 - 2007–08 ranged from 0.49 in grade 10 Mathematics to 0.64 in grade 6 Mathematics
 - 2008–09 ranged from 0.52 in grade 10 Reading to 0.65 in grade 3 Mathematics
 - 2009–10 ranged from 0.50 in grade 10 Mathematics to 0.66 in grade 8 Science
 - 2010–11 ranged from 0.48 in grade 10 Mathematics to 0.66 in grade 8 Science
 - 2011–12 ranged from 0.49 in grade 10 Mathematics to 0.65 grade 4 Mathematics

- 2012–13 ranged from 0.51 in grade 10 Reading to 0.64 in grade 3 Mathematics
 - 2013–14 ranged from 0.50 in grade 10 Reading to 0.64 in grade 4 Mathematics
- Low values
 - 2006–07 Mathematics ranged from 0.12 in grade 10 to 0.36 in grade 3
 - 2007–08 ranged from 0.09 in grade 10 Mathematics to 0.42 in grade 5 Science
 - 2008–09 ranged from 0.14 in grade 10 Mathematics to 0.38 in grade 5 Mathematics
 - 2009–10 ranged from 0.09 in grade 10 Mathematics to 0.43 in grade 5 Science
 - 2010–11 ranged from 0.03 in grade 10 Mathematics to 0.39 in grade 5 Mathematics
 - 2011–12 ranged from 0.07 in grade 10 Mathematics to 0.40 in grade 3 Mathematics
 - 2012–13 ranged from 0.03 in grade 8 Mathematics to 0.36 in grade 5 Mathematics
 - 2013–14 ranged from 0.08 in grade 8 Mathematics to 0.39 in grade 3 Mathematics
- Impact Data over time
 - *Inconclusive*
 - 2006–07 Mathematics ranged from 6% in grade 3 to 18% in grade 10
 - 2007–08 ranged from 6% in grade 4 Mathematics to 17% in grade 8 Reading
 - 2008–09 ranged from 7% in grade 4 Mathematics to 18% in grade 8 Writing
 - 2009–10 ranged from 6% in grade 4 Mathematics to 18% in grade 8 Reading
 - 2010–11 ranged from 7% in grade 4 Mathematics to 19% in grade 8 Writing
 - 2011–12 ranged from 8% in grade 4 Mathematics to 20% in grade 3 Reading
 - 2012–13 ranged from 7% in grade 4 Mathematics to 21% in grade 4 Reading
 - 2013–14 ranged from 6% in grade 4 Mathematics to 17% in grade 5 Mathematics
 - *Exploring*
 - 2006–07 Mathematics ranged from 15% in grade 5 to 29% in grade 8
 - 2007–08 ranged from 12% in grade 5 Mathematics to 28% in grade 10 Reading
 - 2008–09 ranged from 14% in grade 6 Mathematics to 30% in grade 8 Reading
 - 2009–10 ranged from 15% in grade 6 Mathematics to 29% in grade 8 Reading
 - 2010–11 ranged from 13% in grade 8 Science to 31% in grade 10 Reading

- 2011–12 ranged from 16% in grade 6 Mathematics to 31% in grade 10 Reading
- 2012–13 ranged from 14% in grade 5 Mathematics to 29% in grade 4 Mathematics
- 2013–14 ranged from 16% in grade 6 Mathematics to 29% in grade 10 Reading
- *Emerging*
 - 2006–07 Mathematics ranged from 23% in grade 5 to 36% in grade 10
 - 2007–08 ranged from 17% in grade 8 Science to 38% in grade 10 Mathematics
 - 2008–09 ranged from 17% in grade 8 Science to 38% in grade 10 Writing
 - 2009–10 ranged from 18% in grade 8 Science to 39% in grade 10 Mathematics
 - 2010–11 ranged from 17% in grade 8 Science to 39% in grade 10 Mathematics
 - 2011–12 ranged from 17% in grade 8 Science to 38% in grade 10 Mathematics
 - 2012–13 ranged from 19% in grade 5 Science to 37% in grade 10 Mathematics
 - 2013–14 ranged from 20% in grade 5 Reading to 37% in grade 3 Reading
- *Developing*
 - 2006–07 Mathematics ranged from 16% in grade 10 to 42% in grade 5
 - 2007–08 ranged from 17% in grade 10 Mathematics to 38% in grade 5 Mathematics
 - 2008–09 ranged from 15% in grade 10 Science to 43% in grade 5 Mathematics
 - 2009–10 ranged from 16% in grade 9 Mathematics to 39% in grade 5 Mathematics
 - 2010–11 ranged from 14% in grade 10 Mathematics to 41% in grade 5 Mathematics
 - 2011–12 ranged from 15% in grade 10 Science to 35% in grade 5 Mathematics
 - 2012–13 ranged from 14% in grade 10 Science to 38% in grade 5 Mathematics
 - 2013–14 ranged from 15% in grade 3 Reading to 34% in grade 6 Reading
- *Novice*
 - 2006–07 Mathematics ranged from 4% in grade 10 to 26% in grade 3
 - 2007–08 ranged from 3% in grade 3 Writing to 33% in grade 8 Science
 - 2008–09 ranged from 3% in grade 3 Writing to 30% in grade 8 Science
 - 2009–10 ranged from 4% in grade 3 Writing to 34% in grade 8 Science

- 2010–11 ranged from 3% in grade 3 Writing to 29% in grade 8 Science
- 2011–12 ranged from 3% in grade 3 Writing to 36% in grade 8 Science
- 2012–13 ranged from 3% in grade 3 Writing to 31% in grade 8 Science
- 2013–14 ranged from 3% in grade 3 Writing to 26% in grade 6 Mathematics
- *Developing and Novice* combined
 - 2006–07 Mathematics ranged from 20% in grade 10 to 53% in grade 3
 - 2007–08 ranged from 22% in grade 10 Mathematics to 53% in grade 8 Science
 - 2008–09 Mathematics ranged from 26% in grade 10 to 55% in grade 5
 - 2009–10 ranged from 25% in grade 3 Reading to 53% in grade 6 Mathematics
 - 2010–11 ranged from 19% in grade 10 Mathematics to 54% in grade 8 Science
 - 2011–12 ranged from 22% in grade 10 Mathematics to 55% in grade 8 Science
 - 2012–13 ranged from 21% in grade 3 Reading to 51% in grade 8 Science
 - 2013–14 ranged from 18% in grade 3 Reading to 49% in grade 6 Mathematics

References

- Almond, P., & Case, B. (2004). *Alternate assessments for students with significant cognitive disabilities*. Harcourt. Retrieved from:
- American Educational Research Association, American Psychological Association, & National Council on Measurement in Education. (1999). *Standards for educational and psychological testing*. Washington, D.C.: American Educational Research Association.
- Barton, K. (2007). Validity and accommodations: The journey toward accessible assessments. In C. Cahalan Laitusis & L. Cook (Eds). *Large-scale assessment and accommodations: What works?* (pp. 81–94). Arlington, VA: Council for Exceptional Children.
- Colorado Department of Education (2014a). *Alternate assessment eligibility criteria worksheet*. Retrieved from:
http://www.cde.state.co.us/sites/default/files/documents/cdesped/download/pdf/eligibility_criteriaworksheet_alternateassessment.pdf
- Colorado Department of Education (2014b). *Examiners manual spring 2014*. CTB/McGraw-Hill.
- Colorado Department of Education (2014c). *Parent brochure Colorado Alternate Assessment (CoAlt)*. Retrieved from:
http://www.cde.state.co.us/sites/default/files/documents/assessment/documents/parents/coalt_parent_brochure.pdf
- Crocker, L., & Algina, J. (1986). *Introduction to classical and modern test theory*. New York: Harcourt Brace Jovanovich College Publishers.
- Cronbach, L. J. (1951). Coefficient alpha and the internal structure of tests. *Psychometrika*, 16, 297–334.
- CTB/McGraw-Hill (2004). *Guidelines to inclusive test administration*. CTB/McGraw-Hill.
<http://www.ctb.com/ctb.com/control/assetDetailsViewAction?articleId=475&assetType=article¤tPage=1&p=library>
- CTB/McGraw-Hill (2007). *Standard setting technical report 2007 for grades 3–10 mathematics and grade 10 science*. Monterey, CA: Author.
- CTB/McGraw-Hill (2008). *Standard setting technical report 2008 for grades 3–10 reading, grades 3–10 writing, and grades 5, 8, and 10 science*. Monterey, CA: Author.
- Ebel, R. L. (1965). *Measuring educational achievement*. Englewood Cliffs, NJ: Prentice-Hall.
- Gulliksen, H. (1950). *Theory of mental tests*. New York: Wiley.
- Jaeger, R. M. (1995). Setting performance standards through two-stage judgmental policy capturing. *Applied Measurement in Education*, 8, 15–40.
- Landis, J.R., & Koch, G.G. (1977). The measurement of observer agreement for categorical data. *Biometrics*, 33(1), 159–174.
- Linn, R. L. (2008). Educational accountability systems. In K. E. Ryan & L. A. Shepard (Eds.), *The future of test-based educational accountability* (pp. 3–24). New York: Routledge.
- Livingston, S. A., & Lewis, C. (1995). Estimating the consistency and accuracy of classifications based on test scores. *Journal of Educational Measurement*, 32, 179–197.

- Livingston, S. A., & Zieky, M. J. (1982). *Passing scores*. Princeton, NJ: Educational Testing Service.
- Mehrens, W. A., & Lehmann, I. J. (1991). *Measurement and evaluation in education and psychology* (3rd ed.). New York: Holt, Rinehart, and Winston.
- Quenemoen, M., Perie, M., & Kearns, J. (2010). *Scoring alternate assessments based on alternate achievement standards: a proposed typology of AA-AAS scoring practices*. Lexington, KY: National Alternate Assessment Center. Retrieved from: <http://www.cehd.umn.edu/nceo/projects/NCSC/ScoringTypology.pdf>
- Schmeiser, C. B., & Welch, C. J. (2006). Test development. In R. L. Brennan (Ed.) *Educational measurement* (4th ed., pp. 307–353). Westport, CT: Praeger.
- United States Department of Education (2004). *Individuals with disabilities education improvement act of 2004*. U.S. Department of Education. Retrieved from: <http://idea.ed.gov/download/statute.html>
- United States Department of Education (2007). *Standards and assessments peer review guidance: Information and examples for meeting requirements of the No Child Left Behind Act of 2001*. U.S. Department of Education, Office of Elementary and Secondary Education. Retrieved from: <http://www.ed.gov/policy/elsec/guid/saaprguidance.pdf>

Tables 1–81

Table 1
Reading Test Design: Number of Items and Score Points per Expanded Benchmark by Grade and Maximum Score Possible

Content	Grade	Expanded Benchmark	Critical Concept	No. Items	Total No. Score Points	Max Score Possible
RD	3	1.2	Demonstrate understanding of symbolic representation	5	15	105
		1.3	Demonstrate understanding of beginning principles of phonics	5	15	
		1.4	Use a variety of strategies to make meaning of text	5	15	
		2.1	Make connections to reading passages	5	15	
		2.2	Identify elements of literature (character, plot, setting)	5	15	
		3.1	Demonstrate knowledge that various texts have different purposes	5	15	
	4	3.2	Understands informational and functional text	5	15	105
		1.2	Demonstrate understanding of symbolic representation	5	15	
		1.3	Demonstrate understanding of beginning principles of phonics	5	15	
		1.4	Use a variety of strategies to make meaning of text	5	15	
		2.1	Make connections to reading passages	5	15	
		2.2	Identify elements of literature (character, plot, setting)	5	15	
	5	3.1	Demonstrate knowledge that various texts have different purposes	5	15	105
		3.2	Understands informational and functional text	5	15	
		1.2	Demonstrate understanding of symbolic representation	5	15	
		1.3	Demonstrate understanding of beginning principles of phonics	5	15	
		1.4	Use a variety of strategies to make meaning of text	5	15	
		2.1	Make connections to reading passages	5	15	

Table 1
Reading Test Design: Number of Items and Score Points per Expanded Benchmark by Grade and Maximum Score Possible (continued)

Content	Grade	Expanded Benchmark	Critical Concept	No. Items	Total No. Score Points	Max Score Possible
RD	6	1.2	Demonstrate understanding of symbolic representation	5	15	105
		1.3	Demonstrate understanding of beginning principles of phonics	5	15	
		1.4	Use a variety of strategies to make meaning of text	5	15	
		2.1	Make connections to reading passages	5	15	
		2.2	Identify elements of literature (character, plot, setting)	5	15	
		3.1	Demonstrate knowledge that various texts have different purposes	5	15	
		3.2	Understands informational and functional text	5	15	
		7	1.2	Demonstrate understanding of symbolic representation	5	
	1.3		Demonstrate understanding of beginning principles of phonics	5	15	
	1.4		Use a variety of strategies to make meaning of text	5	15	
	2.1		Make connections to reading passages	5	15	
	2.2		Identify elements of literature (character, plot, setting)	5	15	
	3.1		Demonstrate knowledge that various texts have different purposes	5	15	
	3.2		Understands informational and functional text	5	15	
	8		1.2	Demonstrate understanding of symbolic representation	5	15
		1.3	Demonstrate understanding of beginning principles of phonics	5	15	
		1.4	Use a variety of strategies to make meaning of text	5	15	
		2.1	Make connections to reading passages	5	15	
		2.2	Identify elements of literature (character, plot, setting)	5	15	
		3.1	Demonstrate knowledge that various texts have different purposes	5	15	
		3.2	Understands informational and functional text	5	15	

Table 1
Reading Test Design: Number of Items and Score Points per Expanded Benchmark by Grade and Maximum Score Possible (continued)

Content	Grade	Expanded Benchmark	Critical Concept	No. Items	Total No. Score Points	Max Score Possible
RD	9	1.2	Demonstrate understanding of symbolic representation	4	12	102
		1.3	Demonstrate understanding of beginning principles of phonics	5	15	
		1.4	Use a variety of strategies to make meaning of text	5	15	
		2.1	Make connections to reading passages	5	15	
		2.2	Identify elements of literature (character, plot, setting)	5	15	
		3.1	Demonstrate knowledge that various texts have different purposes	5	15	
	3.2	Understands informational and functional text	5	15		
	10	1.2	Demonstrate understanding of symbolic representation	5	15	102
		1.3	Demonstrate understanding of beginning principles of phonics	5	15	
		1.4	Use a variety of strategies to make meaning of text	4	12	
		2.1	Make connections to reading passages	5	15	
		2.2	Identify elements of literature (character, plot, setting)	5	15	
3.1		Demonstrate knowledge that various texts have different purposes	5	15		
3.2	Understands informational and functional text	5	15			

Table 2
Writing Test Design: Number of Items and Score Points per Expanded Benchmark by Grade and Maximum Score Possible

Content	Grade	Expanded Benchmark	Critical Concept	Total No.		
				No. Items	Score Points	Max Score Possible
WR	3	1.1	Demonstrate an understanding that writing communicates a message	5	18	105
		1.2	Organize writing to create a draft document	5	18	
		2.1	Use systematic conventions to make written product understandable by others	6	21	
		2.2	Apply elements of writing through appropriate word usage	6	24	
		2.3	Edit a written product using legible handwriting/word processor for publication	7	24	
	4	1.1	Demonstrate an understanding that writing communicates a message	5	18	108
		1.2	Organize writing to create a draft document	5	18	
		2.1	Use systematic conventions to make written product understandable by others	6	21	
		2.2	Apply elements of writing through appropriate word usage	7	27	
		2.3	Edit a written product using legible handwriting/word processor for publication	7	24	
	5	1.1	Demonstrate an understanding that writing communicates a message	5	18	105
		1.2	Organize writing to create a draft document	5	18	
		2.1	Use systematic conventions to make written product understandable by others	6	21	
		2.2	Apply elements of writing through appropriate word usage	6	24	
		2.3	Edit a written product using legible handwriting/word processor for publication	7	24	
	6	1.1	Demonstrate an understanding that writing communicates a message	5	18	105
		1.2	Organize writing to create a draft document	5	18	
		2.1	Use systematic conventions to make written product understandable by others	6	21	
		2.2	Apply elements of writing through appropriate word usage	6	24	
		2.3	Edit a written product using legible handwriting/word processor for publication	7	24	

Table 2
Writing Test Design: Number of Items and Score Points per Expanded Benchmark by Grade and Maximum Score Possible (continued)

Content	Grade	Expanded Benchmark	Critical Concept	No. Items	Total No. Score Points	Max Score Possible
WR	7	1.1	Demonstrate an understanding that writing communicates a message	6	24	108
		1.2	Organize writing to create a draft document	5	18	
		2.1	Use systematic conventions to make written product understandable by others	6	21	
		2.2	Apply elements of writing through appropriate word usage	7	27	
		2.3	Edit a written product using legible handwriting/word processor for publication	6	18	
	8	1.1	Demonstrate an understanding that writing communicates a message	6	24	108
		1.2	Organize writing to create a draft document	5	18	
		2.1	Use systematic conventions to make written product understandable by others	6	21	
		2.2	Apply elements of writing through appropriate word usage	7	27	
		2.3	Edit a written product using legible handwriting/word processor for publication	6	18	
	9	1.1	Demonstrate an understanding that writing communicates a message	6	24	105
		1.2	Organize writing to create a draft document	5	18	
		2.1	Use systematic conventions to make written product understandable by others	6	21	
		2.2	Apply elements of writing through appropriate word usage	6	24	
		2.3	Edit a written product using legible handwriting/word processor for publication	6	18	
	10	1.1	Demonstrate an understanding that writing communicates a message	6	24	108
		1.2	Organize writing to create a draft document	5	18	
		2.1	Use systematic conventions to make written product understandable by others	6	21	
		2.2	Apply elements of writing through appropriate word usage	7	27	
		2.3	Edit a written product using legible handwriting/word processor for publication	6	18	

Table 3
Mathematics Test Design: Number of Items and Score Points per Expanded Benchmark by Grade and Maximum Score Possible

Content	Grade	Expanded Benchmark	Critical Concept	Total No.		Max Score Possible
				No. Items	Score Points	
MA	3	1	Counts, represents quantities, reads and writes numbers	8	33	126
		2	Identifies, describes, and creates patterns to solve problems	4	18	
		3	Displays and analyzes data	5	21	
		4	Identifies, sorts, and matches geometric shapes	6	21	
		5	Applies a variety of measurement skills	5	21	
		6	Uses calculation strategies to compute problems	4	12	
	4	1	Counts, represents quantities, reads and writes numbers	8	33	129
		2	Identifies, describes, and creates patterns to solve problems	4	18	
		3	Displays and analyzes data	5	21	
		4	Identifies, sorts, and matches geometric shapes	6	24	
		5	Applies a variety of measurement skills	5	21	
		6	Uses calculation strategies to compute problems	4	12	
	5	1	Counts, represents quantities, reads and writes numbers	12	54	171
		2	Identifies, describes, and creates patterns to solve problems	6	27	
		3	Displays and analyzes data	5	21	
		4	Identifies, sorts, and matches geometric shapes	6	27	
		5	Applies a variety of measurement skills	7	30	
		6	Uses calculation strategies to compute problems	4	12	
	6	1	Counts, represents quantities, reads and writes numbers	8	39	138
		2	Identifies, describes, and creates patterns to solve problems	5	18	
		3	Displays and analyzes data	6	27	
		4	Identifies, sorts, and matches geometric shapes	5	15	
		5	Applies a variety of measurement skills	6	27	
		6	Uses calculation strategies to compute problems	4	12	

Table 3
Mathematics Test Design: Number of Items and Score Points per Expanded Benchmark by Grade and Maximum Score Possible (continued)

Content	Grade	Expanded Benchmark	Critical Concept	Total No.		Max Score Possible
				No. Items	Score Points	
MA	7	1	Counts, represents quantities, reads and writes numbers	7	36	132
		2	Identifies, describes, and creates patterns to solve problems	7	21	
		3	Displays and analyzes data	5	24	
		4	Identifies, sorts, and matches geometric shapes	4	12	
		5	Applies a variety of measurement skills	6	27	
		6	Uses calculation strategies to compute problems	4	12	
	8	1	Counts, represents quantities, reads and writes numbers	8	42	147
		2	Identifies, describes, and creates patterns to solve problems	6	18	
		3	Displays and analyzes data	6	24	
		4	Identifies, sorts, and matches geometric shapes	5	15	
		5	Applies a variety of measurement skills	8	33	
		6	Uses calculation strategies to compute problems	5	15	
	9	1	Counts, represents quantities, reads and writes numbers	7	36	144
		2	Identifies, describes, and creates patterns to solve problems	6	18	
		3	Displays and analyzes data	6	24	
		4	Identifies, sorts, and matches geometric shapes	5	15	
		5	Applies a variety of measurement skills	8	33	
		6	Uses calculation strategies to compute problems	6	18	
	10	1	Counts, represents quantities, reads and writes numbers	8	42	156
		2	Identifies, describes, and creates patterns to solve problems	7	21	
		3	Displays and analyzes data	6	24	
		4	Identifies, sorts, and matches geometric shapes	5	18	
		5	Applies a variety of measurement skills	8	33	
		6	Uses calculation strategies to compute problems	6	18	

Table 4
Test Design: Number of Items by Maximum Item Score

Content	Grade	Total Number of Items	Number of Items with a Maximum Score of:		Max Score
			3	6	
RD	3	35	35	0	105
	4	35	35	0	105
	5	35	35	0	105
	6	35	35	0	105
	7	35	35	0	105
	8	35	35	0	105
	9	34	34	0	102
	10	34	34	0	102
WR	3	29	23	6	105
	4	30	24	6	108
	5	29	23	6	105
	6	29	23	6	105
	7	30	24	6	108
	8	30	24	6	108
	9	29	23	6	105
	10	30	24	6	108
MA	3	32	22	10	126
	4	32	21	11	129
	5	40	23	17	171
	6	34	22	12	138
	7	33	22	11	132
	8	38	27	11	147
	9	38	28	10	144
	10	40	28	12	156

Table 5
Reading Descriptive Statistics by Gender and Race/Ethnicity

Content	Grade	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
					Mean	SD					
RD	3	Total	589	100%	56.96	24.04	0	11	0.92	6.96	
		Female	182	30.90%	58.84	23.76	0	2	0.91	7.03	
		Male	404	68.59%	56.12	24.16	0	9	0.92	6.92	
		American Indian/Alaska Native	5	0.85%	-	-	-	-	-	-	-
		Asian	14	2.38%	-	-	-	-	-	-	-
		Black/ African American	44	7.47%	50.07	25.57	0	3	0.93	6.78	
		Hispanic/ Latino	219	37.18%	54.37	22.18	0	2	0.89	7.19	
		White	280	47.54%	60.15	24.81	0	4	0.92	6.82	
		Native Hawaiian/ Other Pacific Islander	6	1.02%	-	-	-	-	-	-	-
	Two or More Races	19	3.23%	58.26	22.89	0	0	0.91	6.80		
	4	Total	689	100%	57.10	25.43	1	25	0.93	6.92	
		Female	241	34.98%	54.78	25.87	0	9	0.93	6.87	
		Male	447	64.88%	58.28	25.11	1	16	0.92	6.95	
		American Indian/Alaska Native	9	1.31%	-	-	-	-	-	-	-
		Asian	15	2.18%	-	-	-	-	-	-	-
		Black/ African American	56	8.13%	55.20	26.59	0	2	0.93	7.02	
		Hispanic/ Latino	262	38.03%	56.96	24.98	0	8	0.92	6.93	
		White	316	45.86%	58.05	25.63	1	12	0.93	6.85	
		Native Hawaiian/ Other Pacific Islander	3	0.44%	-	-	-	-	-	-	-
Two or More Races		27	3.92%	52.30	25.07	0	1	0.92	7.25		

Table 5
Reading Descriptive Statistics by Gender and Race/Ethnicity (continued)

Content	Grade	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
RD	5	Total	685	100%	58.44	27.03	3	18	0.93	6.91
		Female	247	36.06%	61.01	25.97	0	5	0.93	6.90
		Male	437	63.80%	56.98	27.57	3	13	0.94	6.91
		American Indian/Alaska Native	6	0.88%	-	-	-	-	-	-
		Asian	23	3.36%	54.74	26.26	0	0	0.93	6.94
		Black/ African American	46	6.72%	63.54	24.89	0	0	0.93	6.77
		Hispanic/ Latino	256	37.37%	56.18	27.09	0	10	0.93	7.01
		White	332	48.47%	59.89	26.93	3	5	0.93	6.87
		Native Hawaiian/ Other Pacific Islander	3	0.44%	-	-	-	-	-	-
	Two or More Races	18	2.63%	50.28	32.43	0	3	0.96	6.65	
	6	Total	655	100%	64.00	26.33	4	17	0.94	6.66
		Female	246	37.56%	62.36	27.69	0	11	0.94	6.63
		Male	406	61.98%	64.84	25.46	4	6	0.93	6.67
		American Indian/Alaska Native	5	0.76%	-	-	-	-	-	-
		Asian	16	2.44%	56.81	28.44	0	1	0.94	7.00
		Black/ African American	42	6.41%	66.43	27.79	2	2	0.95	6.46
		Hispanic/ Latino	256	39.08%	63.45	25.04	1	3	0.93	6.75
		White	304	46.41%	63.98	26.86	0	9	0.94	6.61
		Native Hawaiian/ Other Pacific Islander	2	0.31%	-	-	-	-	-	-
Two or More Races		28	4.27%	67.11	27.03	1	1	0.94	6.53	

Table 5
Reading Descriptive Statistics by Gender and Race/Ethnicity (continued)

Content	Grade	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
RD	7	Total	630	100%	56.03	24.47	0	18	0.92	7.02
		Female	240	38.10%	56.33	25.03	0	6	0.92	7.03
		Male	388	61.59%	55.80	24.16	0	12	0.92	7.01
		American Indian/Alaska Native	12	1.90%	-	-	-	-	-	-
		Asian	12	1.90%	-	-	-	-	-	-
		Black/ African American	45	7.14%	55.29	22.70	0	2	0.90	7.18
		Hispanic/ Latino	207	32.86%	56.70	22.98	0	6	0.91	7.08
		White	325	51.59%	55.29	26.23	0	9	0.93	6.92
		Native Hawaiian/ Other Pacific Islander	1	0.16%	-	-	-	-	-	-
	Two or More Races	25	3.97%	60.92	20.76	0	1	0.88	7.12	
	8	Total	590	100%	55.10	25.94	1	16	0.92	7.26
		Female	231	39.15%	57.39	25.97	1	8	0.92	7.19
		Male	358	60.68%	53.69	25.86	0	8	0.92	7.30
		American Indian/Alaska Native	3	0.51%	-	-	-	-	-	-
		Asian	11	1.86%	-	-	-	-	-	-
		Black/ African American	44	7.46%	54.30	26.75	0	2	0.93	7.23
		Hispanic/ Latino	228	38.64%	54.89	24.48	0	5	0.91	7.32
		White	287	48.64%	55.03	27.26	0	9	0.93	7.19
		Native Hawaiian/ Other Pacific Islander	2	0.34%	-	-	-	-	-	-
Two or More Races		13	2.20%	-	-	-	-	-	-	

Table 5
Reading Descriptive Statistics by Gender and Race/Ethnicity (continued)

Content	Grade	Subgroup	Sample		Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
			Size	%	Mean	SD	Students at Max Score	Students at Min Score		
RD	9	Total	518	100%	56.32	26.50	0	18	0.93	6.92
		Female	186	35.91%	53.77	27.20	0	10	0.94	6.92
		Male	331	63.90%	57.72	26.07	0	8	0.93	6.90
		American Indian/Alaska Native	10	1.93%	-	-	-	-	-	-
		Asian	10	1.93%	-	-	-	-	-	-
		Black/ African American	32	6.18%	58.25	21.25	0	0	0.88	7.32
		Hispanic/ Latino	177	34.17%	55.96	25.34	0	7	0.92	7.01
		White	270	52.12%	56.11	27.85	0	8	0.94	6.81
		Native Hawaiian/ Other Pacific Islander	0	0%	-	-	-	-	-	-
	Two or More Races	18	3.47%	55.44	29.90	0	2	0.95	6.89	
	10	Total	549	100%	50.76	24.30	1	22	0.91	7.34
		Female	202	36.79%	48.63	24.17	1	11	0.91	7.39
		Male	344	62.66%	52.28	24.19	0	10	0.91	7.33
		American Indian/Alaska Native	4	0.73%	-	-	-	-	-	-
		Asian	11	2.00%	-	-	-	-	-	-
		Black/ African American	41	7.47%	55.32	23.37	0	2	0.90	7.46
		Hispanic/ Latino	179	32.60%	48.54	24.07	0	9	0.91	7.33
		White	289	52.64%	52.20	24.51	1	8	0.91	7.33
		Native Hawaiian/ Other Pacific Islander	1	0.18%	-	-	-	-	-	-
Two or More Races		22	4.01%	45.64	23.68	0	1	0.91	7.28	

Table 6
Writing Descriptive Statistics by Gender and Race/Ethnicity

Content	Grade	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
WR	3	Total	590	100%	54.19	27.24	1	12	0.92	7.73
		Female	183	31.02%	54.63	26.91	0	3	0.91	7.87
		Male	404	68.47%	54.07	27.36	1	8	0.92	7.67
		American Indian/Alaska Native	5	0.85%	-	-	-	-	-	-
		Asian	14	2.37%	-	-	-	-	-	-
		Black/ African American	46	7.80%	49.02	28.82	0	3	0.93	7.62
		Hispanic/ Latino	219	37.12%	51.83	26.13	0	2	0.91	7.92
		White	280	47.46%	56.82	27.71	1	4	0.92	7.61
		Native Hawaiian/ Other Pacific Islander	6	1.02%	-	-	-	-	-	-
	Two or More Races	18	3.05%	55.89	21.52	0	0	0.87	7.80	
	4	Total	684	100%	56.63	28.76	0	24	0.93	7.80
		Female	242	35.38%	54.14	30.09	0	11	0.93	7.83
		Male	441	64.47%	57.96	27.98	0	13	0.92	7.78
		American Indian/Alaska Native	9	1.32%	-	-	-	-	-	-
		Asian	15	2.19%	-	-	-	-	-	-
		Black/ African American	55	8.04%	58.55	28.88	0	1	0.92	8.01
		Hispanic/ Latino	264	38.60%	57.78	27.84	0	9	0.92	7.77
		White	310	45.32%	55.59	29.56	0	12	0.93	7.72
		Native Hawaiian/ Other Pacific Islander	3	0.44%	-	-	-	-	-	-
Two or More Races		27	3.95%	51.44	28.28	0	1	0.92	8.18	

Table 6
Writing Descriptive Statistics by Gender and Race/Ethnicity (continued)

Content	Grade	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
WR	5	Total	690	100%	59.19	28.74	1	22	0.93	7.53
		Female	248	35.94%	61.60	27.59	0	7	0.92	7.60
		Male	441	63.91%	57.83	29.34	1	15	0.93	7.48
		American Indian/Alaska Native	6	0.87%	-	-	-	-	-	-
		Asian	23	3.33%	49.83	32.92	0	1	0.95	7.50
		Black/ African American	46	6.67%	67.11	25.98	0	1	0.92	7.14
		Hispanic/ Latino	259	37.54%	57.56	28.80	0	11	0.93	7.69
		White	334	48.41%	60.15	28.48	1	6	0.93	7.47
		Native Hawaiian/ Other Pacific Islander	3	0.43%	-	-	-	-	-	-
	Two or More Races	18	2.61%	51.78	32.59	0	3	0.95	7.54	
	6	Total	650	100%	63.96	28.40	5	22	0.93	7.49
		Female	246	37.85%	62.52	29.98	2	13	0.94	7.51
		Male	401	61.69%	64.71	27.43	3	9	0.93	7.49
		American Indian/Alaska Native	5	0.77%	-	-	-	-	-	-
		Asian	15	2.31%	-	-	-	-	-	-
		Black/ African American	42	6.46%	66.05	29.81	2	3	0.94	7.30
		Hispanic/ Latino	256	39.38%	63.62	27.80	1	6	0.93	7.59
		White	300	46.15%	63.90	28.29	0	10	0.93	7.47
		Native Hawaiian/ Other Pacific Islander	2	0.31%	-	-	-	-	-	-
Two or More Races		28	4.31%	65.61	28.93	1	0	0.93	7.51	

Table 6
Writing Descriptive Statistics by Gender and Race/Ethnicity (continued)

Content	Grade	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
WR	7	Total	626	100%	62.54	30.52	1	23	0.94	7.54
		Female	236	37.70%	63.47	31.31	1	10	0.94	7.49
		Male	388	61.98%	61.94	30.08	0	13	0.94	7.56
		American Indian/Alaska Native	12	1.92%	-	-	-	-	-	-
		Asian	12	1.92%	-	-	-	-	-	-
		Black/ African American	45	7.19%	64.62	26.53	0	2	0.91	7.77
		Hispanic/ Latino	206	32.91%	65.32	29.12	0	6	0.93	7.44
		White	322	51.44%	60.37	32.22	1	14	0.95	7.50
		Native Hawaiian/ Other Pacific Islander	1	0.16%	-	-	-	-	-	-
	Two or More Races	25	3.99%	64.24	29.29	0	1	0.93	7.84	
	8	Total	589	100.00%	61.63	29.11	0	20	0.93	7.57
		Female	231	39.22%	65.19	28.73	0	7	0.94	7.30
		Male	357	60.61%	59.34	29.20	0	13	0.93	7.71
		American Indian/Alaska Native	3	0.51%	-	-	-	-	-	-
		Asian	11	1.87%	-	-	-	-	-	-
		Black/ African American	44	7.47%	58.91	31.08	0	3	0.94	7.72
		Hispanic/ Latino	228	38.71%	62.69	27.68	0	6	0.92	7.61
		White	286	48.56%	60.46	30.39	0	11	0.94	7.54
		Native Hawaiian/ Other Pacific Islander	2	0.34%	-	-	-	-	-	-
Two or More Races		13	2.21%	-	-	-	-	-	-	

Table 6
Writing Descriptive Statistics by Gender and Race/Ethnicity (continued)

Content	Grade	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
					Mean	SD					
WR	9	Total	518	100%	60.97	29.01	0	22	0.93	7.44	
		Female	188	36.29%	58.54	30.39	0	11	0.94	7.58	
		Male	329	63.51%	62.28	28.16	0	11	0.93	7.35	
		American Indian/Alaska Native	10	1.93%	-	-	-	-	-	-	-
		Asian	10	1.93%	-	-	-	-	-	-	-
		Black/ African American	33	6.37%	65.42	24.63	0	0	0.91	7.52	
		Hispanic/ Latino	176	33.98%	60.18	28.53	0	11	0.93	7.50	
		White	270	52.12%	60.32	29.78	0	8	0.94	7.41	
		Native Hawaiian/ Other Pacific Islander	0	0.00%	-	-	-	-	-	-	-
	Two or More Races	18	3.47%	62.61	33.39	0	2	0.95	7.25		
	10	Total	546	100%	61.47	27.92	0	22	0.92	7.71	
		Female	203	37.18%	59.83	28.55	0	12	0.93	7.73	
		Male	340	62.27%	62.73	27.41	0	9	0.92	7.68	
		American Indian/Alaska Native	4	0.73%	-	-	-	-	-	-	-
		Asian	12	2.20%	-	-	-	-	-	-	-
		Black/ African American	41	7.51%	67.22	27.76	0	2	0.93	7.50	
		Hispanic/ Latino	179	32.78%	60.16	28.28	0	9	0.93	7.73	
		White	285	52.20%	62.33	27.75	0	8	0.92	7.70	
		Native Hawaiian/ Other Pacific Islander	1	0.18%	-	-	-	-	-	-	-
Two or More Races		22	4.03%	51.82	26.89	0	1	0.91	8.10		

Table 7
Mathematics Descriptive Statistics by Gender and Race/Ethnicity

Content	Grade	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
MA	3	Total	583	100%	78.95	33.09	1	10	0.94	8.13
		Female	180	30.87%	79.57	34.41	1	3	0.94	8.10
		Male	400	68.61%	78.82	32.47	0	7	0.94	8.14
		American Indian/Alaska Native	5	0.86%	-	-	-	-	-	-
		Asian	14	2.40%	-	-	-	-	-	-
		Black/ African American	46	7.89%	74.13	36.76	0	3	0.95	8.11
		Hispanic/ Latino	213	36.54%	78.23	30.79	1	1	0.93	8.37
		White	280	48.03%	80.69	33.66	0	4	0.94	7.98
		Native Hawaiian/ Other Pacific Islander	6	1.03%	-	-	-	-	-	-
	Two or More Races	17	2.92%	78.12	33.41	0	0	0.94	7.98	
	4	Total	679	100%	80.56	35.88	3	23	0.95	8.27
		Female	239	35.20%	77.45	36.85	0	8	0.95	8.28
		Male	439	64.65%	82.24	35.30	3	15	0.95	8.25
		American Indian/Alaska Native	9	1.33%	-	-	-	-	-	-
		Asian	14	2.06%	-	-	-	-	-	-
		Black/ African American	57	8.39%	80.60	37.10	0	1	0.95	8.36
		Hispanic/ Latino	260	38.29%	82.46	35.12	1	8	0.95	8.22
		White	309	45.51%	79.20	35.92	2	11	0.95	8.29
		Native Hawaiian/ Other Pacific Islander	3	0.44%	-	-	-	-	-	-
Two or More Races		26	3.83%	79.12	38.95	0	1	0.96	8.25	

Table 7
Mathematics Descriptive Statistics by Gender and Race/Ethnicity (continued)

Content	Grade	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
MA	5	Total	687	100%	96.02	46.85	1	16	0.95	10.13
		Female	248	36.10%	98.19	44.91	1	5	0.95	10.23
		Male	438	63.76%	94.76	47.96	0	11	0.96	10.06
		American Indian/Alaska Native	6	0.87%	-	-	-	-	-	-
		Asian	23	3.35%	82.39	49.75	0	0	0.96	10.27
		Black/ African American	45	6.55%	101.02	44.72	0	0	0.95	9.95
		Hispanic/ Latino	256	37.26%	95.95	48.16	0	10	0.96	10.06
		White	335	48.76%	96.41	45.95	1	5	0.95	10.15
		Native Hawaiian/ Other Pacific Islander	3	0.44%	-	-	-	-	-	-
	Two or More Races	18	2.62%	86.00	49.45	0	1	0.95	10.51	
	6	Total	654	100%	81.34	37.65	1	20	0.94	8.83
		Female	247	37.77%	78.74	38.61	0	12	0.95	8.78
		Male	404	61.77%	82.74	37.04	1	8	0.94	8.87
		American Indian/Alaska Native	5	0.76%	-	-	-	-	-	-
		Asian	15	2.29%	-	-	-	-	-	-
		Black/ African American	43	6.57%	80.72	39.78	0	4	0.95	8.80
		Hispanic/ Latino	256	39.14%	83.05	37.81	0	6	0.95	8.78
		White	304	46.48%	80.04	37.01	1	7	0.94	8.87
Native Hawaiian/ Other Pacific Islander		2	0.31%	-	-	-	-	-	-	
Two or More Races	27	4.13%	84.56	35.13	0	0	0.94	8.89		

Table 7
Mathematics Descriptive Statistics by Gender and Race/Ethnicity (continued)

Content	Grade	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
					Mean	SD					
MA	7	Total	625	100%	71.42	34.99	0	20	0.94	8.79	
		Female	236	37.76%	69.89	35.05	0	6	0.94	8.92	
		Male	387	61.92%	72.34	35.05	0	14	0.94	8.70	
		American Indian/Alaska Native	11	1.76%	-	-	-	-	-	-	-
		Asian	12	1.92%	-	-	-	-	-	-	-
		Black/ African American	44	7.04%	75.59	34.37	0	2	0.94	8.69	
		Hispanic/ Latino	207	33.12%	74.34	33.11	0	4	0.93	8.84	
		White	322	51.52%	69.39	36.58	0	13	0.94	8.70	
		Native Hawaiian/ Other Pacific Islander	1	0.16%	-	-	-	-	-	-	-
	Two or More Races	25	4.00%	68.12	35.01	0	1	0.93	9.03		
	8	Total	589	100%	80.94	38.60	1	19	0.94	9.34	
		Female	232	39.39%	83.03	37.78	0	7	0.94	9.26	
		Male	356	60.44%	79.56	39.16	1	12	0.94	9.38	
		American Indian/Alaska Native	3	0.51%	-	-	-	-	-	-	-
		Asian	11	1.87%	-	-	-	-	-	-	-
		Black/ African American	43	7.30%	76.65	38.73	1	2	0.94	9.68	
		Hispanic/ Latino	230	39.05%	82.55	37.39	0	7	0.94	9.36	
		White	285	48.39%	79.47	40.00	0	10	0.95	9.26	
		Native Hawaiian/ Other Pacific Islander	2	0.34%	-	-	-	-	-	-	-
Two or More Races		13	2.21%	-	-	-	-	-	-	-	

Table 7
Mathematics Descriptive Statistics by Gender and Race/Ethnicity (continued)

Content	Grade	Subgroup	Sample		Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
			Size	%	Mean	SD	Students at Max Score	Students at Min Score		
MA	9	Total	521	100%	71.86	35.84	0	20	0.93	9.37
		Female	188	36.08%	66.34	34.76	0	10	0.93	9.45
		Male	332	63.72%	74.95	36.16	0	10	0.93	9.31
		American Indian/Alaska Native	10	1.92%	-	-	-	-	-	-
		Asian	9	1.73%	-	-	-	-	-	-
		Black/ African American	33	6.33%	73.67	34.09	0	0	0.92	9.50
		Hispanic/ Latino	174	33.40%	71.92	35.34	0	9	0.93	9.32
		White	276	52.98%	71.38	36.19	0	8	0.93	9.39
		Native Hawaiian/ Other Pacific Islander	0	0%	-	-	-	-	-	-
	Two or More Races	18	3.45%	73.17	42.28	0	2	0.96	8.96	
	10	Total	551	100%	76.47	37.00	0	24	0.93	9.71
		Female	204	37.02%	71.00	36.19	0	13	0.93	9.75
		Male	344	62.43%	80.13	36.90	0	10	0.93	9.66
		American Indian/Alaska Native	4	0.73%	-	-	-	-	-	-
		Asian	12	2.18%	-	-	-	-	-	-
		Black/ African American	41	7.44%	84.07	37.74	0	2	0.93	9.70
		Hispanic/ Latino	178	32.30%	74.11	37.33	0	9	0.93	9.72
		White	292	52.99%	77.83	36.89	0	10	0.93	9.67
Native Hawaiian/ Other Pacific Islander		1	0.18%	-	-	-	-	-	-	
Two or More Races	21	3.81%	67.29	36.03	0	1	0.92	9.98		

Table 8
Reading Descriptive Statistics by English Language Proficiency

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
RD	3	Language Proficiency	Not Applicable	482	81.83%	58.68	24.33	0	11	0.92	6.90	
			NEP	97	16.47%	48.15	21.33	0	0	0.88	7.27	
			LEP	4	0.68%	-	-	-	-	-	-	-
			FEP	3	0.51%	-	-	-	-	-	-	-
			PHLOTE	1	0.17%	-	-	-	-	-	-	-
			FELL	0	0%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	585	99.32%	56.98	24.09	0	11	0.92	6.96	
			Yes	1	0.17%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	0	0%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	484	82.17%	58.67	24.29	0	11	0.92	6.90	
			Yes	92	15.62%	48.58	21.26	0	0	0.88	7.27	
			Monitored Y1	2	0.34%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	1	0.17%	-	-	-	-	-	-	-
			Choice	7	1.19%	-	-	-	-	-	-	-

Table 8
Reading Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
RD	4	Language Proficiency	Not Applicable	567	82.29%	57.98	25.40	1	19	0.93	6.91	
			NEP	100	14.51%	53.45	24.70	0	4	0.92	6.97	
			LEP	11	1.60%	-	-	-	-	-	-	-
			FEP	7	1.02%	-	-	-	-	-	-	-
			PHLOTE	2	0.29%	-	-	-	-	-	-	-
			FELL	1	0.15%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	687	99.71%	57.14	25.34	1	24	0.93	6.92	
			Yes	0	0%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	1	0.15%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	571	82.87%	57.88	25.43	1	20	0.93	6.91	
			Yes	108	15.67%	55.09	24.32	0	4	0.92	6.97	
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	1	0.15%	-	-	-	-	-	-	-
			Exited Y3+	5	0.73%	-	-	-	-	-	-	-
			Choice	3	0.44%	-	-	-	-	-	-	-

Table 8
Reading Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
RD	5	Language Proficiency	Not Applicable	554	80.88%	59.60	27.28	3	15	0.94	6.85	
			NEP	107	15.62%	52.31	25.91	0	3	0.92	7.17	
			LEP	13	1.90%	-	-	-	-	-	-	-
			FEP	7	1.02%	-	-	-	-	-	-	-
			PHLOTE	3	0.44%	-	-	-	-	-	-	-
			FELL	0	0%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	680	99.27%	58.44	27.05	3	18	0.93	6.91	
			Yes	2	0.29%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	2	0.29%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	561	81.90%	59.60	27.22	3	15	0.94	6.85	
			Yes	109	15.91%	55.52	25.27	0	3	0.92	7.17	
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	1	0.15%	-	-	-	-	-	-	-
			Exited Y3+	4	0.58%	-	-	-	-	-	-	-
			Choice	9	1.31%	-	-	-	-	-	-	-

Table 8
Reading Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
RD	6	Language Proficiency	Not Applicable	515	78.63%	64.46	26.60	3	15	0.94	6.61	
			NEP	105	16.03%	61.86	25.20	1	2	0.93	6.82	
			LEP	12	1.83%	-	-	-	-	-	-	-
			FEP	17	2.60%	49.82	22.72	0	0	0.90	7.10	
			PHLOTE	2	0.31%	-	-	-	-	-	-	-
			FELL	0	0%	-	-	-	-	-	-	-
			No	648	98.93%	63.98	26.39	4	17	0.94	6.65	
			Yes	0	0%	-	-	-	-	-	-	-
			ELL Program - Monitored Y1	0	0%	-	-	-	-	-	-	-
			Bilingual Monitored Y2	0	0%	-	-	-	-	-	-	-
		Exited Y3+	3	0.46%	-	-	-	-	-	-	-	
		Choice	0	0%	-	-	-	-	-	-	-	
		No	520	79.39%	64.34	26.62	3	15	0.94	6.61		
		Yes	109	16.64%	64.53	23.91	1	1	0.92	6.80		
		ELL Program - Monitored Y1	0	0%	-	-	-	-	-	-	-	
		ESL Monitored Y2	0	0%	-	-	-	-	-	-	-	
		Exited Y3+	14	2.14%	-	-	-	-	-	-	-	
		Choice	7	1.07%	-	-	-	-	-	-	-	

Table 8
Reading Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
RD	7	Language Proficiency	Not Applicable	522	82.86%	56.11	25.42	0	18	0.92	6.97	
			NEP	88	13.97%	55.36	17.99	0	0	0.84	7.27	
			LEP	6	0.95%	-	-	-	-	-	-	-
			FEP	10	1.59%	-	-	-	-	-	-	-
			PHLOTE	0	0%	-	-	-	-	-	-	-
			FELL	1	0.16%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	626	99.37%	56.04	24.50	0	18	0.92	7.01	
			Yes	0	0%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	1	0.16%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	524	83.17%	56.06	25.40	0	18	0.92	6.98	
			Yes	83	13.17%	55.33	18.01	0	0	0.84	7.21	
			Monitored Y1	1	0.16%	-	-	-	-	-	-	-
			Monitored Y2	3	0.48%	-	-	-	-	-	-	-
			Exited Y3+	5	0.79%	-	-	-	-	-	-	-
			Choice	11	1.75%	-	-	-	-	-	-	-

Table 8
Reading Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
RD	8	Language Proficiency	Not Applicable	486	82.37%	55.45	26.70	1	14	0.93	7.21	
			NEP	85	14.41%	54.12	21.12	0	1	0.87	7.59	
			LEP	11	1.86%	-	-	-	-	-	-	-
			FEP	5	0.85%	-	-	-	-	-	-	-
			PHLOTE	1	0.17%	-	-	-	-	-	-	-
			FELL	1	0.17%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	586	99.32%	55.16	25.93	1	16	0.92	7.26	
			Yes	1	0.17%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	2	0.34%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	491	83.22%	55.26	26.79	1	15	0.93	7.20	
			Yes	85	14.41%	53.64	20.94	0	1	0.87	7.58	
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	2	0.34%	-	-	-	-	-	-	-
			Exited Y3+	1	0.17%	-	-	-	-	-	-	-
			Choice	10	1.69%	-	-	-	-	-	-	-

Table 8
Reading Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
RD	9	Language Proficiency	Not Applicable	427	82.43%	56.40	26.75	0	13	0.93	6.89	
			NEP	67	12.93%	54.28	25.81	0	4	0.92	7.13	
			LEP	4	0.77%	-	-	-	-	-	-	-
			FEP	17	3.28%	52.82	24.58	0	1	0.92	7.05	
			PHLOTE	2	0.39%	-	-	-	-	-	-	-
			FELL	0	0.00%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	516	99.61%	56.36	26.51	0	18	0.93	6.92	
			Yes	0	0%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	1	0.19%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	430	83.01%	56.44	26.76	0	13	0.93	6.88	
			Yes	58	11.20%	56.64	26.15	0	3	0.93	7.07	
			Monitored Y1	6	1.16%	-	-	-	-	-	-	-
			Monitored Y2	2	0.39%	-	-	-	-	-	-	-
			Exited Y3+	8	1.54%	-	-	-	-	-	-	-
			Choice	13	2.51%	-	-	-	-	-	-	-

Table 8
Reading Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
RD	10	Language Proficiency	Not Applicable	462	84.15%	51.27	24.51	1	18	0.91	7.34	
			NEP	61	11.11%	46.89	21.93	0	3	0.88	7.49	
			LEP	8	1.46%	-	-	-	-	-	-	-
			FEP	13	2.37%	-	-	-	-	-	-	-
			PHLOTE	0	0%	-	-	-	-	-	-	-
			FELL	1	0.18%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	543	98.91%	51.11	24.16	1	21	0.91	7.35	
			Yes	0	0%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	3	0.55%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	467	85.06%	51.11	24.59	1	18	0.91	7.33	
			Yes	61	11.11%	48.11	22.64	0	3	0.89	7.42	
			Monitored Y1	1	0.18%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	9	1.64%	-	-	-	-	-	-	-
			Choice	8	1.46%	-	-	-	-	-	-	-

Table 9
Writing Descriptive Statistics by English Language Proficiency

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
WR	3	Language Proficiency	Not Applicable	483	81.86%	55.83	27.58	1	10	0.92	7.67	
			NEP	97	16.44%	46.40	24.41	0	1	0.89	8.04	
			LEP	4	0.68%	-	-	-	-	-	-	-
			FEP	3	0.51%	-	-	-	-	-	-	-
			PHLOTE	1	0.17%	-	-	-	-	-	-	-
			FELL	0	0%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	586	99.32%	54.25	27.23	1	11	0.92	7.74	
			Yes	1	0.17%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	0	0%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	485	82.20%	55.80	27.54	1	10	0.92	7.67	
			Yes	92	15.59%	46.95	23.93	0	0	0.89	8.09	
			Monitored Y1	2	0.34%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	1	0.17%	-	-	-	-	-	-	-
			Choice	7	1.19%	-	-	-	-	-	-	-

Table 9
Writing Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
WR	4	Language Proficiency	Not Applicable	561	82.02%	56.90	28.65	0	17	0.93	7.79	
			NEP	100	14.62%	55.59	28.62	0	5	0.92	7.92	
			LEP	12	1.75%	-	-	-	-	-	-	-
			FEP	7	1.02%	-	-	-	-	-	-	-
			PHLOTE	2	0.29%	-	-	-	-	-	-	-
			FELL	1	0.15%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	682	99.71%	56.69	28.72	0	23	0.93	7.80	
			Yes	0	0%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	1	0.15%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	565	82.60%	56.86	28.67	0	18	0.93	7.79	
			Yes	109	15.94%	57.71	28.35	0	5	0.92	7.85	
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	1	0.15%	-	-	-	-	-	-	-
			Exited Y3+	5	0.73%	-	-	-	-	-	-	-
			Choice	3	0.44%	-	-	-	-	-	-	-

Table 9
Writing Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
WR	5	Language Proficiency	Not Applicable	559	81.01%	60.02	29.15	1	19	0.94	7.43	
			NEP	107	15.51%	54.40	26.68	0	3	0.91	7.97	
			LEP	13	1.88%	-	-	-	-	-	-	-
			FEP	7	1.01%	-	-	-	-	-	-	-
			PHLOTE	3	0.43%	-	-	-	-	-	-	-
			FELL	0	0%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	685	99.28%	59.17	28.75	1	22	0.93	7.53	
			Yes	2	0.29%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	2	0.29%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	566	82.03%	60.05	29.13	1	19	0.93	7.43	
			Yes	109	15.80%	57.78	25.99	0	3	0.91	7.94	
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	1	0.14%	-	-	-	-	-	-	-
			Exited Y3+	4	0.58%	-	-	-	-	-	-	-
			Choice	9	1.30%	-	-	-	-	-	-	-

Table 9
Writing Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
WR	6	Language Proficiency	Not Applicable	512	78.77%	63.79	28.30	3	15	0.93	7.51	
			NEP	104	16.00%	64.24	28.31	2	5	0.93	7.51	
			LEP	12	1.85%	-	-	-	-	-	-	-
			FEP	17	2.62%	48.41	28.77	0	2	0.93	7.80	
			PHLOTE	2	0.31%	-	-	-	-	-	-	-
			FELL	0	0%	-	-	-	-	-	-	-
			No	644	99.08%	63.90	28.48	5	22	0.93	7.49	
			Yes	0	0%	-	-	-	-	-	-	-
			ELL Program - Monitored Y1	0	0%	-	-	-	-	-	-	-
			Bilingual Monitored Y2	0	0%	-	-	-	-	-	-	-
		Exited Y3+	3	0.46%	-	-	-	-	-	-	-	
		Choice	0	0%	-	-	-	-	-	-	-	
		No	517	79.54%	63.69	28.31	3	15	0.93	7.51		
		Yes	108	16.62%	67.80	26.70	2	3	0.92	7.41		
		ELL Program - Monitored Y1	0	0%	-	-	-	-	-	-	-	
		ESL Monitored Y2	0	0%	-	-	-	-	-	-	-	
		Exited Y3+	14	2.15%	-	-	-	-	-	-	-	
		Choice	7	1.08%	-	-	-	-	-	-	-	

Table 9
Writing Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
WR	7	Language Proficiency	Not Applicable	520	83.07%	62.19	31.22	1	23	0.94	7.51	
			NEP	87	13.90%	64.36	25.66	0	0	0.91	7.74	
			LEP	6	0.96%	-	-	-	-	-	-	-
			FEP	10	1.60%	-	-	-	-	-	-	-
			PHLOTE	0	0%	-	-	-	-	-	-	-
			FELL	1	0.16%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	623	99.52%	62.59	30.51	1	23	0.94	7.53	
			Yes	0	0%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	1	0.16%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	522	83.39%	62.16	31.24	1	23	0.94	7.52	
			Yes	82	13.10%	64.95	24.83	0	0	0.90	7.66	
			Monitored Y1	1	0.16%	-	-	-	-	-	-	-
			Monitored Y2	3	0.48%	-	-	-	-	-	-	-
			Exited Y3+	5	0.80%	-	-	-	-	-	-	-
			Choice	11	1.76%	-	-	-	-	-	-	-

Table 9
Writing Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
WR	8	Language Proficiency	Not Applicable	485	82.34%	61.33	30.00	0	18	0.94	7.54	
			NEP	85	14.43%	63.45	24.42	0	1	0.90	7.66	
			LEP	11	1.87%	-	-	-	-	-	-	-
			FEP	5	0.85%	-	-	-	-	-	-	-
			PHLOTE	1	0.17%	-	-	-	-	-	-	-
			FELL	1	0.17%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	585	99.32%	61.61	29.18	0	20	0.93	7.57	
			Yes	1	0.17%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	2	0.34%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	490	83.19%	61.14	30.07	0	19	0.94	7.54	
			Yes	85	14.43%	63.19	24.38	0	1	0.90	7.74	
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	2	0.34%	-	-	-	-	-	-	-
			Exited Y3+	1	0.17%	-	-	-	-	-	-	-
			Choice	10	1.70%	-	-	-	-	-	-	-

Table 9
Writing Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
WR	9	Language Proficiency	Not Applicable	427	82.43%	60.89	29.17	0	15	0.94	7.44	
			NEP	67	12.93%	59.15	28.70	0	5	0.93	7.64	
			LEP	4	0.77%	-	-	-	-	-	-	-
			FEP	17	3.28%	58.59	27.47	0	2	0.94	6.91	
			PHLOTE	2	0.39%	-	-	-	-	-	-	-
			FELL	0	0%	-	-	-	-	-	-	-
			No	516	99.61%	61.01	28.97	0	22	0.93	7.43	
			Yes	0	0%	-	-	-	-	-	-	-
			ELL Program - Monitored Y1	0	0%	-	-	-	-	-	-	-
			Bilingual Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	1	0.19%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		No	430	83.01%	60.95	29.25	0	15	0.94	7.43		
		Yes	58	11.20%	62.03	27.95	0	3	0.93	7.64		
		ELL Program - Monitored Y1	6	1.16%	-	-	-	-	-	-	-	
		ESL Monitored Y2	2	0.39%	-	-	-	-	-	-	-	
		Exited Y3+	8	1.54%	-	-	-	-	-	-	-	
		Choice	13	2.51%	-	-	-	-	-	-	-	

Table 9
Writing Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
WR	10	Language Proficiency	Not Applicable	461	84.43%	61.27	28.02	0	17	0.92	7.73	
			NEP	60	10.99%	62.03	27.12	0	3	0.92	7.64	
			LEP	8	1.47%	-	-	-	-	-	-	-
			FEP	12	2.20%	-	-	-	-	-	-	-
			PHLOTE	0	0%	-	-	-	-	-	-	-
			FELL	1	0.18%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	540	98.90%	61.86	27.72	0	20	0.92	7.70	
			Yes	0	0%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	3	0.55%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	466	85.35%	61.11	28.15	0	18	0.92	7.72	
			Yes	60	10.99%	63.83	27.25	0	3	0.92	7.49	
			Monitored Y1	1	0.18%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	8	1.47%	-	-	-	-	-	-	-
			Choice	8	1.47%	-	-	-	-	-	-	-

Table 10
Mathematics Descriptive Statistics by English Language Proficiency

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
MA	3	Language Proficiency	Not Applicable	480	82.33%	80.16	33.30	0	9	0.94	8.04	
			NEP	93	15.95%	73.23	31.89	1	1	0.93	8.57	
			LEP	4	0.69%	-	-	-	-	-	-	-
			FEP	3	0.51%	-	-	-	-	-	-	-
			PHLOTE	1	0.17%	-	-	-	-	-	-	-
			FELL	0	0%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	579	99.31%	79.05	33.08	1	10	0.94	8.13	
			Yes	1	0.17%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	0	0%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	482	82.68%	80.13	33.24	0	9	0.94	8.04	
			Yes	88	15.09%	73.69	31.27	1	0	0.92	8.59	
			Monitored Y1	2	0.34%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	1	0.17%	-	-	-	-	-	-	-
			Choice	7	1.20%	-	-	-	-	-	-	-

Table 10
Mathematics Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
MA	4	Language Proficiency	Not Applicable	557	82.03%	81.34	35.44	3	17	0.95	8.27	
			NEP	99	14.58%	78.71	37.54	0	4	0.95	8.29	
			LEP	12	1.77%	-	-	-	-	-	-	-
			FEP	7	1.03%	-	-	-	-	-	-	-
			PHLOTE	2	0.29%	-	-	-	-	-	-	-
			FELL	1	0.15%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	677	99.71%	80.67	35.79	3	22	0.95	8.27	
			Yes	0	0%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	1	0.15%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	561	82.62%	81.16	35.50	3	18	0.95	8.27	
			Yes	108	15.91%	80.74	36.56	0	4	0.95	8.25	
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	1	0.15%	-	-	-	-	-	-	-
			Exited Y3+	5	0.74%	-	-	-	-	-	-	-
			Choice	3	0.44%	-	-	-	-	-	-	-

Table 10
Mathematics Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
MA	5	Language Proficiency	Not Applicable	556	80.93%	96.56	47.20	1	13	0.95	10.10	
			NEP	107	15.57%	92.31	45.20	0	3	0.95	10.29	
			LEP	13	1.89%	-	-	-	-	-	-	-
			FEP	7	1.02%	-	-	-	-	-	-	-
			PHLOTE	3	0.44%	-	-	-	-	-	-	-
			FELL	0	0%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	682	99.27%	96.02	46.87	1	16	0.95	10.13	
			Yes	2	0.29%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	2	0.29%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	563	81.95%	96.53	47.16	1	13	0.95	10.10	
			Yes	109	15.87%	98.29	44.25	0	3	0.95	10.24	
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	1	0.15%	-	-	-	-	-	-	-
			Exited Y3+	4	0.58%	-	-	-	-	-	-	-
			Choice	9	1.31%	-	-	-	-	-	-	-

Table 10
Mathematics Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
MA	6	Language Proficiency	Not Applicable	515	78.75%	81.48	37.39	1	13	0.94	8.86	
			NEP	104	15.90%	80.49	39.46	0	5	0.95	8.71	
			LEP	12	1.83%	-	-	-	-	-	-	-
			FEP	17	2.60%	63.06	31.04	0	1	0.91	9.56	
			PHLOTE	2	0.31%	-	-	-	-	-	-	-
			FELL	0	0%	-	-	-	-	-	-	-
			No	647	98.93%	81.34	37.73	1	20	0.95	8.82	
			Yes	0	0%	-	-	-	-	-	-	-
			ELL Program - Monitored Y1	0	0%	-	-	-	-	-	-	-
			Bilingual Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	3	0.46%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		No	520	79.51%	81.34	37.43	1	14	0.94	8.86		
		Yes	108	16.51%	84.19	37.42	0	4	0.95	8.68		
		ELL Program - Monitored Y1	0	0%	-	-	-	-	-	-	-	
		ESL Monitored Y2	0	0%	-	-	-	-	-	-	-	
		Exited Y3+	14	2.14%	-	-	-	-	-	-	-	
		Choice	7	1.07%	-	-	-	-	-	-	-	

Table 10
Mathematics Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
MA	7	Language Proficiency	Not Applicable	519	83.04%	70.51	35.82	0	20	0.94	8.77	
			NEP	87	13.92%	76.31	29.79	0	0	0.91	8.80	
			LEP	6	0.96%	-	-	-	-	-	-	-
			FEP	10	1.60%	-	-	-	-	-	-	-
			PHLOTE	0	0%	-	-	-	-	-	-	-
			FELL	1	0.16%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	622	99.52%	71.51	34.98	0	20	0.94	8.78	
			Yes	0	0%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	1	0.16%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	521	83.36%	70.46	35.88	0	20	0.94	8.77	
			Yes	82	13.12%	77.11	29.05	0	0	0.91	8.76	
			Monitored Y1	1	0.16%	-	-	-	-	-	-	-
			Monitored Y2	3	0.48%	-	-	-	-	-	-	-
			Exited Y3+	5	0.80%	-	-	-	-	-	-	-
			Choice	11	1.76%	-	-	-	-	-	-	-

Table 10
Mathematics Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD	Students at Max Score	Students at Min Score			
MA	8	Language Proficiency	Not Applicable	484	82.17%	80.17	39.47	1	16	0.94	9.31	
			NEP	86	14.60%	86.00	34.24	0	2	0.93	9.36	
			LEP	11	1.87%	-	-	-	-	-	-	-
			FEP	5	0.85%	-	-	-	-	-	-	-
			PHLOTE	1	0.17%	-	-	-	-	-	-	-
			FELL	1	0.17%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	585	99.32%	80.96	38.68	1	19	0.94	9.33	
			Yes	1	0.17%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	2	0.34%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	489	83.02%	79.85	39.59	1	17	0.94	9.31	
			Yes	86	14.60%	84.66	33.60	0	2	0.92	9.43	
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	2	0.34%	-	-	-	-	-	-	-
			Exited Y3+	1	0.17%	-	-	-	-	-	-	-
			Choice	10	1.70%	-	-	-	-	-	-	-

Table 10
Mathematics Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
MA	9	Language Proficiency	Not Applicable	430	82.53%	71.64	35.78	0	14	0.93	9.38	
			NEP	67	12.86%	70.37	36.51	0	4	0.93	9.34	
			LEP	4	0.77%	-	-	-	-	-	-	-
			FEP	17	3.26%	70.12	37.44	0	2	0.94	9.47	
			PHLOTE	2	0.38%	-	-	-	-	-	-	-
			FELL	0	0%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	519	99.62%	71.96	35.80	0	20	0.93	9.37	
			Yes	0	0%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	1	0.19%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	433	83.11%	71.65	35.85	0	14	0.93	9.37	
			Yes	58	11.13%	71.97	36.57	0	3	0.93	9.37	
			Monitored Y1	6	1.15%	-	-	-	-	-	-	-
			Monitored Y2	2	0.38%	-	-	-	-	-	-	-
			Exited Y3+	8	1.54%	-	-	-	-	-	-	-
			Choice	13	2.50%	-	-	-	-	-	-	-

Table 10
Mathematics Descriptive Statistics by English Language Proficiency (continued)

Content	Grade	Variable	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement	
						Mean	SD					
MA	10	Language Proficiency	Not Applicable	467	84.75%	76.31	37.12	0	20	0.93	9.69	
			NEP	61	11.07%	76.98	35.97	0	3	0.93	9.79	
			LEP	8	1.45%	-	-	-	-	-	-	-
			FEP	10	1.81%	-	-	-	-	-	-	-
			PHLOTE	0	0%	-	-	-	-	-	-	-
			FELL	1	0.18%	-	-	-	-	-	-	-
		ELL Program - Bilingual	No	545	98.91%	76.96	36.78	0	23	0.93	9.70	
			Yes	0	0%	-	-	-	-	-	-	-
			Monitored Y1	0	0%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	3	0.54%	-	-	-	-	-	-	-
			Choice	0	0%	-	-	-	-	-	-	-
		ELL Program - ESL	No	472	85.66%	76.05	37.15	0	20	0.93	9.70	
			Yes	61	11.07%	78.89	35.23	0	3	0.92	9.84	
			Monitored Y1	1	0.18%	-	-	-	-	-	-	-
			Monitored Y2	0	0%	-	-	-	-	-	-	-
			Exited Y3+	6	1.09%	-	-	-	-	-	-	-
			Choice	8	1.45%	-	-	-	-	-	-	-

Table 11
Reading Descriptive Statistics by Free/Reduced Price Lunch Eligibility

Content	Grade	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
RD	3	Free Lunch Eligible	278	47.20%	57.32	23.07	0	4	0.91	7.03
		Reduced Lunch Eligible	49	8.32%	57.47	22.96	0	0	0.90	7.17
		Not Eligible	253	42.95%	56.83	25.19	0	7	0.93	6.88
	4	Free Lunch Eligible	365	52.98%	59.51	24.92	1	9	0.92	6.90
		Reduced Lunch Eligible	49	7.11%	51.29	28.67	0	5	0.95	6.67
		Not Eligible	272	39.48%	54.69	25.21	0	11	0.92	6.98
	5	Free Lunch Eligible	327	47.74%	60.01	25.82	0	7	0.93	6.99
		Reduced Lunch Eligible	62	9.05%	58.61	30.80	1	2	0.95	6.62
		Not Eligible	289	42.19%	56.47	27.55	2	9	0.94	6.90
	6	Free Lunch Eligible	317	48.40%	67.09	23.65	3	5	0.92	6.65
		Reduced Lunch Eligible	52	7.94%	58.38	29.83	0	3	0.95	6.72
		Not Eligible	274	41.83%	61.22	28.25	1	9	0.94	6.63
	7	Free Lunch Eligible	295	46.83%	57.37	22.82	0	6	0.90	7.08
		Reduced Lunch Eligible	55	8.73%	56.95	24.28	0	0	0.92	6.99
		Not Eligible	276	43.81%	54.36	26.25	0	12	0.93	6.93
	8	Free Lunch Eligible	285	48.31%	57.02	24.43	0	6	0.91	7.31
		Reduced Lunch Eligible	53	8.98%	52.55	28.23	1	2	0.94	7.17
		Not Eligible	250	42.37%	53.59	27.08	0	8	0.93	7.20
	9	Free Lunch Eligible	211	40.73%	58.67	24.50	0	6	0.92	7.03
		Reduced Lunch Eligible	56	10.81%	57.75	27.04	0	2	0.94	6.87
		Not Eligible	249	48.07%	53.91	27.95	0	10	0.94	6.84
	10	Free Lunch Eligible	245	44.63%	52.74	23.24	1	10	0.90	7.40
		Reduced Lunch Eligible	45	8.20%	49.53	21.69	0	1	0.88	7.58
		Not Eligible	253	46.08%	49.36	25.53	0	10	0.92	7.25

Table 12
Writing Descriptive Statistics by Free/Reduced Price Lunch Eligibility

Content	Grade	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
WR	3	Free Lunch Eligible	280	47.46%	55.43	26.29	0	3	0.91	7.80
		Reduced Lunch Eligible	49	8.31%	57.22	26.52	0	0	0.92	7.64
		Not Eligible	252	42.71%	52.72	28.18	1	8	0.93	7.68
	4	Free Lunch Eligible	364	53.22%	59.79	27.48	0	11	0.92	7.73
		Reduced Lunch Eligible	49	7.16%	52.16	31.06	0	4	0.94	7.62
		Not Eligible	269	39.33%	53.09	29.70	0	9	0.93	7.89
	5	Free Lunch Eligible	332	48.12%	61.39	27.39	0	7	0.92	7.56
		Reduced Lunch Eligible	61	8.84%	58.07	31.37	0	3	0.94	7.36
		Not Eligible	290	42.03%	56.79	29.54	1	12	0.94	7.51
	6	Free Lunch Eligible	317	48.77%	67.24	26.41	1	8	0.92	7.41
		Reduced Lunch Eligible	51	7.85%	55.90	32.28	1	4	0.94	7.66
		Not Eligible	271	41.69%	61.46	29.50	3	10	0.93	7.53
	7	Free Lunch Eligible	294	46.96%	65.11	28.80	1	6	0.93	7.45
		Reduced Lunch Eligible	55	8.79%	65.65	28.66	0	0	0.93	7.39
		Not Eligible	274	43.77%	59.12	32.46	0	17	0.95	7.61
	8	Free Lunch Eligible	284	48.22%	65.12	27.40	0	6	0.93	7.49
		Reduced Lunch Eligible	53	9.00%	54.64	30.55	0	3	0.93	7.84
		Not Eligible	250	42.44%	59.15	30.35	0	11	0.94	7.55
	9	Free Lunch Eligible	210	40.54%	63.95	27.08	0	7	0.92	7.47
		Reduced Lunch Eligible	57	11.00%	62.16	28.78	0	3	0.94	7.29
		Not Eligible	249	48.07%	57.98	30.46	0	12	0.94	7.45
10	Free Lunch Eligible	244	44.69%	65.46	26.04	0	8	0.92	7.53	
	Reduced Lunch Eligible	45	8.24%	57.82	27.85	0	2	0.92	7.78	
	Not Eligible	251	45.97%	58.53	29.24	0	11	0.93	7.83	

Table 13
Mathematics Descriptive Statistics by Free/Reduced Price Lunch Eligibility

Content	Grade	Subgroup	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
MA	3	Free Lunch Eligible	273	46.83%	81.70	30.91	1	2	0.93	8.22
		Reduced Lunch Eligible	49	8.40%	84.10	31.18	0	0	0.93	8.03
		Not Eligible	252	43.22%	75.84	35.12	0	8	0.95	8.06
	4	Free Lunch Eligible	357	52.58%	85.81	33.81	2	9	0.94	8.10
		Reduced Lunch Eligible	49	7.22%	72.71	39.39	0	3	0.96	8.27
		Not Eligible	270	39.76%	74.83	36.99	1	11	0.95	8.41
	5	Free Lunch Eligible	327	47.60%	101.17	44.52	0	6	0.95	10.21
		Reduced Lunch Eligible	61	8.88%	94.31	52.36	0	2	0.96	9.90
		Not Eligible	292	42.50%	90.38	47.49	1	8	0.95	10.09
	6	Free Lunch Eligible	318	48.62%	87.39	35.55	0	8	0.94	8.67
		Reduced Lunch Eligible	52	7.95%	71.92	42.13	0	2	0.96	8.86
		Not Eligible	272	41.59%	75.97	38.22	1	10	0.95	8.95
	7	Free Lunch Eligible	290	46.40%	75.26	32.71	0	7	0.93	8.81
		Reduced Lunch Eligible	54	8.64%	76.67	31.49	0	0	0.92	8.83
		Not Eligible	278	44.48%	66.39	37.49	0	13	0.95	8.69
	8	Free Lunch Eligible	286	48.56%	86.00	36.94	1	7	0.94	9.31
		Reduced Lunch Eligible	54	9.17%	74.17	39.84	0	3	0.94	9.37
		Not Eligible	247	41.94%	76.57	39.72	0	9	0.94	9.33
	9	Free Lunch Eligible	210	40.31%	75.27	34.74	0	6	0.93	9.33
		Reduced Lunch Eligible	58	11.13%	74.88	33.59	0	2	0.92	9.36
		Not Eligible	251	48.18%	68.11	37.05	0	12	0.94	9.38
10	Free Lunch Eligible	246	44.65%	82.00	35.37	0	8	0.93	9.59	
	Reduced Lunch Eligible	45	8.17%	73.96	35.49	0	2	0.92	9.97	
	Not Eligible	254	46.10%	72.20	38.08	0	13	0.93	9.73	

Table 14
Reading Descriptive Statistics by Primary Disability

Content	Grade	Primary Disability	Sample		Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
			Size	%	Mean	SD	Students at Max Score	Students at Min Score		
RD	3	Autism	127	21.56%	54.29	24.90	0	1	0.93	6.67
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	3	0.51%	-	-	-	-	-	-
		Hearing Disability	3	0.51%	-	-	-	-	-	-
		Limited Intellectual Capacity	153	25.98%	65.72	19.17	0	0	0.87	6.91
		Multiple Disabilities	194	32.94%	48.60	23.79	0	8	0.91	7.20
		Physical Disability	69	11.71%	58.52	25.66	0	2	0.93	6.85
		Specific Learning Disability	12	2.04%	-	-	-	-	-	-
		Speech/Language Disability	9	1.53%	-	-	-	-	-	-
		Traumatic Brain Injury	2	0.34%	-	-	-	-	-	-
		Visual Disability	3	0.51%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	12	2.04%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	2	0.34%	-	-	-	-	-	-		

Table 14
Reading Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
RD	4	Autism	115	16.69%	52.98	23.25	0	2	0.91	6.95
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	1	0.15%	-	-	-	-	-	-
		Hearing Disability	2	0.29%	-	-	-	-	-	-
		Limited Intellectual Capacity	189	27.43%	69.68	21.19	0	3	0.90	6.69
		Multiple Disabilities	269	39.04%	47.14	24.97	0	16	0.92	7.01
		Physical Disability	68	9.87%	56.35	25.24	1	4	0.92	7.05
		Specific Learning Disability	22	3.19%	78.50	13.33	0	0	0.75	6.65
		Speech/Language Disability	7	1.02%	-	-	-	-	-	-
		Traumatic Brain Injury	8	1.16%	-	-	-	-	-	-
		Visual Disability	1	0.15%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	6	0.87%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	1	0%	-	-	-	-	-	-		

Table 14
Reading Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
RD	5	Autism	133	19.42%	57.97	25.76	1	2	0.93	6.91
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	3	0.44%	-	-	-	-	-	-
		Hearing Disability	1	0.15%	-	-	-	-	-	-
		Limited Intellectual Capacity	184	26.86%	70.87	20.59	1	1	0.89	6.83
		Multiple Disabilities	255	37.23%	48.01	27.82	0	14	0.94	6.95
		Physical Disability	54	7.88%	52.04	26.12	1	1	0.93	7.08
		Specific Learning Disability	22	3.21%	77.59	14.92	0	0	0.80	6.68
		Speech/Language Disability	9	1.31%	-	-	-	-	-	-
		Traumatic Brain Injury	9	1.31%	-	-	-	-	-	-
		Visual Disability	1	0.15%	-	-	-	-	-	-
		Orthopedic Impairment	2	0.29%	-	-	-	-	-	-
		Other Health Impairment	11	1.61%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	1	0.15%	-	-	-	-	-	-		

Table 14
Reading Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
RD	6	Autism	106	16.18%	64.73	23.42	2	1	0.92	6.63
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	0	0%	-	-	-	-	-	-
		Hearing Disability	1	0.15%	-	-	-	-	-	-
		Limited Intellectual Capacity	196	29.92%	73.90	19.46	2	0	0.89	6.44
		Multiple Disabilities	250	38.17%	52.08	28.07	0	14	0.94	6.87
		Physical Disability	53	8.09%	68.09	26.52	0	1	0.94	6.48
		Specific Learning Disability	23	3.51%	85.70	9.85	0	0	0.63	5.98
		Speech/Language Disability	4	0.61%	-	-	-	-	-	-
		Traumatic Brain Injury	13	1.98%	-	-	-	-	-	-
		Visual Disability	1	0.15%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	5	0.76%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	3	0.46%	-	-	-	-	-	-		

Table 14
Reading Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
RD	7	Autism	88	13.97%	50.70	21.36	0	1	0.89	7.11
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	1	0.16%	-	-	-	-	-	-
		Hearing Disability	0	0%	-	-	-	-	-	-
		Limited Intellectual Capacity	209	33.17%	65.86	19.93	0	0	0.88	6.92
		Multiple Disabilities	251	39.84%	46.90	25.71	0	16	0.93	7.02
		Physical Disability	43	6.83%	58.02	22.19	0	0	0.89	7.20
		Specific Learning Disability	22	3.49%	75.32	13.49	0	0	0.75	6.73
		Speech/Language Disability	3	0.48%	-	-	-	-	-	-
		Traumatic Brain Injury	4	0.63%	-	-	-	-	-	-
		Visual Disability	1	0.16%	-	-	-	-	-	-
		Orthopedic Impairment	1	0.16%	-	-	-	-	-	-
		Other Health Impairment	5	0.79%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	2	0.32%	-	-	-	-	-	-		

Table 14
Reading Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
RD	8	Autism	89	15.08%	48.85	24.85	0	0	0.91	7.39
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	5	0.85%	-	-	-	-	-	-
		Hearing Disability	2	0.34%	-	-	-	-	-	-
		Limited Intellectual Capacity	184	31.19%	65.28	22.39	1	1	0.90	7.19
		Multiple Disabilities	234	39.66%	46.05	24.96	0	10	0.91	7.35
		Physical Disability	47	7.97%	62.68	27.44	0	4	0.94	6.94
		Specific Learning Disability	15	2.54%	-	-	-	-	-	-
		Speech/Language Disability	2	0.34%	-	-	-	-	-	-
		Traumatic Brain Injury	7	1.19%	-	-	-	-	-	-
		Visual Disability	0	0%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	4	0.68%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	1	0.17%	-	-	-	-	-	-		

Table 14
Reading Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
RD	9	Autism	67	12.93%	47.82	23.26	0	2	0.91	7.16
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	6	1.16%	-	-	-	-	-	-
		Hearing Disability	0	0%	-	-	-	-	-	-
		Limited Intellectual Capacity	164	31.66%	69.09	19.59	0	0	0.88	6.86
		Multiple Disabilities	215	41.51%	43.62	26.19	0	16	0.93	6.93
		Physical Disability	34	6.56%	69.65	25.37	0	0	0.93	6.62
		Specific Learning Disability	17	3.28%	77.18	13.44	0	0	0.77	6.51
		Speech/Language Disability	5	0.97%	-	-	-	-	-	-
		Traumatic Brain Injury	5	0.97%	-	-	-	-	-	-
		Visual Disability	1	0.19%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	3	0.58%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	1	0.19%	-	-	-	-	-	-		

Table 14
Reading Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
RD	10	Autism	77	14.03%	49.19	22.13	0	0	0.88	7.53
		Deaf-Blind	1	0.18%	-	-	-	-	-	-
		Emotional Disability	3	0.55%	-	-	-	-	-	-
		Hearing Disability	2	0.36%	-	-	-	-	-	-
		Limited Intellectual Capacity	192	34.97%	59.35	20.12	1	1	0.86	7.45
		Multiple Disabilities	220	40.07%	39.17	23.02	0	18	0.90	7.26
		Physical Disability	22	4.01%	65.32	23.22	0	1	0.91	6.96
		Specific Learning Disability	19	3.46%	75.58	15.26	0	0	0.80	6.87
		Speech/Language Disability	2	0.36%	-	-	-	-	-	-
		Traumatic Brain Injury	7	1.28%	-	-	-	-	-	-
		Visual Disability	0	0%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	2	0.36%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	2	0.36%	-	-	-	-	-	-		

Table 15
Writing Descriptive Statistics by Primary Disability

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
WR	3	Autism	127	21.53%	52.39	26.89	1	0	0.92	7.56
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	3	0.51%	-	-	-	-	-	-
		Hearing Disability	3	0.51%	-	-	-	-	-	-
		Limited Intellectual Capacity	154	26.10%	65.29	21.43	0	0	0.88	7.51
		Multiple Disabilities	192	32.54%	43.27	27.57	0	9	0.92	7.81
		Physical Disability	69	11.69%	53.41	28.36	0	2	0.92	7.78
		Specific Learning Disability	13	2.20%	-	-	-	-	-	-
		Speech/Language Disability	9	1.53%	-	-	-	-	-	-
		Traumatic Brain Injury	3	0.51%	-	-	-	-	-	-
		Visual Disability	3	0.51%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	12	2.03%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	2	0.34%	-	-	-	-	-	-		

Table 15
Writing Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
WR	4	Autism	114	16.67%	54.05	30.51	0	3	0.94	7.68
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	1	0.15%	-	-	-	-	-	-
		Hearing Disability	2	0.29%	-	-	-	-	-	-
		Limited Intellectual Capacity	188	27.49%	69.59	22.45	0	2	0.90	7.23
		Multiple Disabilities	267	39.04%	44.81	27.87	0	15	0.92	8.03
		Physical Disability	67	9.80%	58.33	27.93	0	4	0.92	7.82
		Specific Learning Disability	22	3.22%	81.91	12.42	0	0	0.73	6.44
		Speech/Language Disability	7	1.02%	-	-	-	-	-	-
		Traumatic Brain Injury	8	1.17%	-	-	-	-	-	-
		Visual Disability	1	0.15%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	6	0.88%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	1	0.15%	-	-	-	-	-	-		

Table 15
Writing Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
		Autism	133	19.28%	60.89	27.92	1	2	0.93	7.37
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	4	0.58%	-	-	-	-	-	-
		Hearing Disability	1	0.14%	-	-	-	-	-	-
		Limited Intellectual Capacity	186	26.96%	72.82	18.66	0	1	0.86	7.02
		Multiple Disabilities	257	37.25%	46.64	30.20	0	18	0.93	7.71
		Physical Disability	54	7.83%	51.70	27.20	0	1	0.92	7.82
WR	5	Specific Learning Disability	22	3.19%	78.50	16.28	0	0	0.84	6.42
		Speech/Language Disability	9	1.30%	-	-	-	-	-	-
		Traumatic Brain Injury	9	1.30%	-	-	-	-	-	-
		Visual Disability	1	0.14%	-	-	-	-	-	-
		Orthopedic Impairment	2	0.29%	-	-	-	-	-	-
		Other Health Impairment	11	1.59%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
		Missing	1	0.14%	-	-	-	-	-	-

Table 15
Writing Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
WR	6	Autism	103	15.85%	67.36	26.03	2	1	0.92	7.22
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	0	0%	-	-	-	-	-	-
		Hearing Disability	1	0.15%	-	-	-	-	-	-
		Limited Intellectual Capacity	196	30.15%	74.93	19.93	3	0	0.88	7.02
		Multiple Disabilities	247	38.00%	50.19	30.59	0	21	0.93	7.81
		Physical Disability	54	8.31%	66.46	27.05	0	0	0.92	7.55
		Specific Learning Disability	23	3.54%	85.83	10.60	0	0	0.68	6.02
		Speech/Language Disability	4	0.62%	-	-	-	-	-	-
		Traumatic Brain Injury	13	2.00%	-	-	-	-	-	-
		Visual Disability	1	0.15%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	5	0.77%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	3	0.46%	-	-	-	-	-	-		

Table 15
Writing Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
WR	7	Autism	88	14.06%	54.68	28.53	0	1	0.92	7.96
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	1	0.16%	-	-	-	-	-	-
		Hearing Disability	0	0%	-	-	-	-	-	-
		Limited Intellectual Capacity	206	32.91%	76.46	21.60	0	0	0.90	6.79
		Multiple Disabilities	250	39.94%	51.29	33.14	0	20	0.95	7.63
		Physical Disability	43	6.87%	59.53	27.56	0	1	0.91	8.17
		Specific Learning Disability	22	3.51%	87.68	10.00	0	0	0.69	5.53
		Speech/Language Disability	3	0.48%	-	-	-	-	-	-
		Traumatic Brain Injury	4	0.64%	-	-	-	-	-	-
		Visual Disability	1	0.16%	-	-	-	-	-	-
		Orthopedic Impairment	1	0.16%	-	-	-	-	-	-
		Other Health Impairment	5	0.80%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	2	0.32%	-	-	-	-	-	-		

Table 15
Writing Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
WR	8	Autism	90	15.28%	55.40	28.37	0	1	0.92	7.97
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	5	0.85%	-	-	-	-	-	-
		Hearing Disability	2	0.34%	-	-	-	-	-	-
		Limited Intellectual Capacity	184	31.24%	73.27	22.97	0	1	0.91	6.88
		Multiple Disabilities	232	39.39%	50.99	29.59	0	13	0.93	7.89
		Physical Disability	47	7.98%	69.60	27.67	0	5	0.94	6.80
		Specific Learning Disability	15	2.55%	-	-	-	-	-	-
		Speech/Language Disability	2	0.34%	-	-	-	-	-	-
		Traumatic Brain Injury	7	1.19%	-	-	-	-	-	-
		Visual Disability	0	0%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	4	0.68%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	1	0.17%	-	-	-	-	-	-		

Table 15
Writing Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
WR	9	Autism	65	12.55%	52.60	26.82	0	3	0.92	7.55
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	6	1.16%	-	-	-	-	-	-
		Hearing Disability	0	0%	-	-	-	-	-	-
		Limited Intellectual Capacity	165	31.85%	74.12	18.37	0	0	0.86	6.82
		Multiple Disabilities	217	41.89%	47.67	31.20	0	19	0.94	7.76
		Physical Disability	33	6.37%	75.97	23.47	0	0	0.92	6.55
		Specific Learning Disability	17	3.28%	85.88	9.89	0	0	0.68	5.63
		Speech/Language Disability	5	0.97%	-	-	-	-	-	-
		Traumatic Brain Injury	5	0.97%	-	-	-	-	-	-
		Visual Disability	1	0.19%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	3	0.58%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	1	0.19%	-	-	-	-	-	-		

Table 15
Writing Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
WR	10	Autism	76	13.92%	61.75	27.15	0	1	0.92	7.80
		Deaf-Blind	1	0.18%	-	-	-	-	-	-
		Emotional Disability	3	0.55%	-	-	-	-	-	-
		Hearing Disability	2	0.37%	-	-	-	-	-	-
		Limited Intellectual Capacity	191	34.98%	72.24	20.34	0	0	0.87	7.20
		Multiple Disabilities	219	40.11%	47.61	28.43	0	18	0.92	8.09
		Physical Disability	22	4.03%	73.77	27.57	0	1	0.94	6.62
		Specific Learning Disability	19	3.48%	87.16	8.74	0	0	0.55	5.85
		Speech/Language Disability	2	0.37%	-	-	-	-	-	-
		Traumatic Brain Injury	7	1.28%	-	-	-	-	-	-
		Visual Disability	0	0%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	2	0.37%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	2	0.37%	-	-	-	-	-	-		

Table 16
Mathematics Descriptive Statistics by Primary Disability

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
MA	3	Autism	124	21.27%	73.81	32.03	0	0	0.94	8.09
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	3	0.51%	-	-	-	-	-	-
		Hearing Disability	3	0.51%	-	-	-	-	-	-
		Limited Intellectual Capacity	151	25.90%	93.95	23.15	0	0	0.89	7.59
		Multiple Disabilities	191	32.76%	66.37	34.56	0	8	0.94	8.58
		Physical Disability	69	11.84%	77.67	35.77	1	2	0.95	7.94
		Specific Learning Disability	13	2.23%	-	-	-	-	-	-
		Speech/Language Disability	9	1.54%	-	-	-	-	-	-
		Traumatic Brain Injury	3	0.51%	-	-	-	-	-	-
		Visual Disability	3	0.51%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	12	2.06%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	2	0.34%	-	-	-	-	-	-		

Table 16
Mathematics Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
MA	4	Autism	112	16.49%	71.15	36.14	1	2	0.95	8.45
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	1	0.15%	-	-	-	-	-	-
		Hearing Disability	2	0.29%	-	-	-	-	-	-
		Limited Intellectual Capacity	187	27.54%	99.10	25.55	1	3	0.91	7.54
		Multiple Disabilities	265	39.03%	67.91	37.07	0	14	0.95	8.56
		Physical Disability	68	10.01%	79.97	33.65	1	4	0.94	8.57
		Specific Learning Disability	22	3.24%	109.68	14.43	0	0	0.77	6.89
		Speech/Language Disability	7	1.03%	-	-	-	-	-	-
		Traumatic Brain Injury	8	1.18%	-	-	-	-	-	-
		Visual Disability	1	0.15%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	5	0.74%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	1	0.15%	-	-	-	-	-	-		

Table 16
Mathematics Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
MA	5	Autism	132	19.21%	94.36	45.25	0	1	0.95	9.91
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	4	0.58%	-	-	-	-	-	-
		Hearing Disability	1	0.15%	-	-	-	-	-	-
		Limited Intellectual Capacity	183	26.64%	118.79	31.77	0	1	0.90	10.11
		Multiple Disabilities	256	37.26%	75.83	47.84	1	13	0.95	10.18
		Physical Disability	56	8.15%	85.96	45.57	0	1	0.95	10.20
		Specific Learning Disability	22	3.20%	138.32	20.71	0	0	0.81	9.11
		Speech/Language Disability	9	1.31%	-	-	-	-	-	-
		Traumatic Brain Injury	9	1.31%	-	-	-	-	-	-
		Visual Disability	1	0.15%	-	-	-	-	-	-
		Orthopedic Impairment	2	0.29%	-	-	-	-	-	-
		Other Health Impairment	11	1.60%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	1	0.15%	-	-	-	-	-	-		

Table 16
Mathematics Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
MA	6	Autism	102	15.60%	81.61	35.51	0	1	0.94	8.86
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	0	0%	-	-	-	-	-	-
		Hearing Disability	1	0.15%	-	-	-	-	-	-
		Limited Intellectual Capacity	197	30.12%	97.31	26.91	1	0	0.90	8.45
		Multiple Disabilities	249	38.07%	63.35	39.58	0	19	0.95	8.96
		Physical Disability	55	8.41%	83.51	34.92	0	0	0.93	8.99
		Specific Learning Disability	23	3.52%	114.96	12.67	0	0	0.66	7.34
		Speech/Language Disability	5	0.76%	-	-	-	-	-	-
		Traumatic Brain Injury	13	1.99%	-	-	-	-	-	-
		Visual Disability	1	0.15%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	5	0.76%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	3	0.46%	-	-	-	-	-	-		

Table 16
Mathematics Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
MA	7	Autism	87	13.92%	63.78	33.31	0	1	0.93	8.91
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	1	0.16%	-	-	-	-	-	-
		Hearing Disability	0	0%	-	-	-	-	-	-
		Limited Intellectual Capacity	205	32.80%	87.42	26.28	0	0	0.89	8.53
		Multiple Disabilities	252	40.32%	58.98	36.96	0	18	0.94	8.76
		Physical Disability	43	6.88%	65.86	32.67	0	0	0.92	9.12
		Specific Learning Disability	21	3.36%	101.95	18.99	0	0	0.84	7.53
		Speech/Language Disability	3	0.48%	-	-	-	-	-	-
		Traumatic Brain Injury	4	0.64%	-	-	-	-	-	-
		Visual Disability	1	0.16%	-	-	-	-	-	-
		Orthopedic Impairment	1	0.16%	-	-	-	-	-	-
		Other Health Impairment	5	0.80%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	2	0.32%	-	-	-	-	-	-		

Table 16
Mathematics Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
MA	8	Autism	87	14.77%	70.85	36.50	0	0	0.93	9.64
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	5	0.85%	-	-	-	-	-	-
		Hearing Disability	2	0.34%	-	-	-	-	-	-
		Limited Intellectual Capacity	185	31.41%	96.17	30.75	0	0	0.91	9.03
		Multiple Disabilities	232	39.39%	66.28	38.43	0	15	0.94	9.46
		Physical Disability	47	7.98%	93.47	38.46	0	4	0.95	8.80
		Specific Learning Disability	16	2.72%	114.63	21.57	0	0	0.86	8.18
		Speech/Language Disability	2	0.34%	-	-	-	-	-	-
		Traumatic Brain Injury	8	1.36%	-	-	-	-	-	-
		Visual Disability	0	0%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	4	0.68%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	1	0.17%	-	-	-	-	-	-		

Table 16
Mathematics Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
MA	9	Autism	64	12.28%	63.77	34.27	0	2	0.92	9.54
		Deaf-Blind	0	0%	-	-	-	-	-	-
		Emotional Disability	7	1.34%	-	-	-	-	-	-
		Hearing Disability	0	0%	-	-	-	-	-	-
		Limited Intellectual Capacity	167	32.05%	87.66	26.20	0	0	0.88	9.12
		Multiple Disabilities	216	41.46%	54.66	35.89	0	18	0.93	9.19
		Physical Disability	34	6.53%	87.24	29.06	0	0	0.89	9.46
		Specific Learning Disability	18	3.45%	104.50	23.82	0	0	0.88	8.24
		Speech/Language Disability	5	0.96%	-	-	-	-	-	-
		Traumatic Brain Injury	5	0.96%	-	-	-	-	-	-
		Visual Disability	1	0.19%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	3	0.58%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	1	0.19%	-	-	-	-	-	-		

Table 16
Mathematics Descriptive Statistics by Primary Disability (continued)

Content	Grade	Primary Disability	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
MA	10	Autism	75	13.61%	77.41	36.12	0	1	0.93	9.73
		Deaf-Blind	1	0%	-	-	-	-	-	-
		Emotional Disability	3	0.54%	-	-	-	-	-	-
		Hearing Disability	2	0.36%	-	-	-	-	-	-
		Limited Intellectual Capacity	193	35.03%	90.20	27.52	0	1	0.88	9.55
		Multiple Disabilities	222	40.29%	58.35	37.32	0	19	0.93	9.63
		Physical Disability	21	3.81%	86.14	36.06	0	1	0.93	9.51
		Specific Learning Disability	19	3.45%	108.26	19.21	0	0	0.80	8.68
		Speech/Language Disability	3	0.54%	-	-	-	-	-	-
		Traumatic Brain Injury	8	1.45%	-	-	-	-	-	-
		Visual Disability	0	0%	-	-	-	-	-	-
		Orthopedic Impairment	0	0%	-	-	-	-	-	-
		Other Health Impairment	2	0.36%	-	-	-	-	-	-
		None	0	0%	-	-	-	-	-	-
Missing	2	0.36%	-	-	-	-	-	-		

Table 17
Reading Descriptive Statistics by Expanded Accommodation

Content	Grade	Expanded Accommodation	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
RD	3	None	524	88.96%	58.98	22.94	0	7	0.91	6.98
		Assistive Technology	10	1.70%	-	-	-	-	-	-
		Braille	3	0.51%	-	-	-	-	-	-
		Eye Gaze	12	2.04%	-	-	-	-	-	-
		Modified Picture Symbols	14	2.38%	-	-	-	-	-	-
		Objects	6	1.02%	-	-	-	-	-	-
		Sign Language	5	0.85%	-	-	-	-	-	-
		Translation Into Native Language	0	0%	-	-	-	-	-	-
	Other	14	2.38%	-	-	-	-	-	-	
	4	None	604	87.66%	60.02	24.41	1	18	0.92	6.92
		Assistive Technology	17	2.47%	41.06	20.30	0	1	0.88	7.13
		Braille	4	0.58%	-	-	-	-	-	-
		Eye Gaze	21	3.05%	21.81	19.75	0	4	0.92	5.56
		Modified Picture Symbols	14	2.03%	-	-	-	-	-	-
		Objects	8	1.16%	-	-	-	-	-	-
		Sign Language	17	2.47%	38.24	24.34	0	1	0.92	6.98
Translation Into Native Language		0	0%	-	-	-	-	-	-	
Other	9	1.31%	-	-	-	-	-	-		

Table 17
Reading Descriptive Statistics by Expanded Accommodation (continued)

Content	Grade	Expanded Accommodation	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
RD	5	None	580	84.67%	62.45	25.56	2	11	0.93	6.91
		Assistive Technology	31	4.53%	36.71	19.05	0	1	0.85	7.31
		Braille	3	0.44%	-	-	-	-	-	-
		Eye Gaze	20	2.92%	19.45	17.80	0	1	0.92	5.07
		Modified Picture Symbols	10	1.46%	-	-	-	-	-	-
		Objects	9	1.31%	-	-	-	-	-	-
		Sign Language	5	0.73%	-	-	-	-	-	-
		Translation Into Native Language	0	0%	-	-	-	-	-	-
	Other	20	2.92%	29.55	20.61	0	2	0.89	6.80	
	6	None	589	89.92%	66.55	25.04	4	11	0.93	6.62
		Assistive Technology	13	1.98%	-	-	-	-	-	-
		Braille	3	0.46%	-	-	-	-	-	-
		Eye Gaze	13	1.98%	-	-	-	-	-	-
		Modified Picture Symbols	14	2.14%	-	-	-	-	-	-
		Objects	10	1.53%	-	-	-	-	-	-
		Sign Language	4	0.61%	-	-	-	-	-	-
Translation Into Native Language		0	0%	-	-	-	-	-	-	
Other	18	2.75%	35.89	28.01	0	3	0.95	6.37		

Table 17
Reading Descriptive Statistics by Expanded Accommodation (continued)

Content	Grade	Expanded Accommodation	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
RD	7	None	559	88.73%	58.03	23.51	0	12	0.91	7.04
		Assistive Technology	24	3.81%	34.33	23.25	0	1	0.91	6.94
		Braille	1	0.16%	-	-	-	-	-	-
		Eye Gaze	11	1.75%	-	-	-	-	-	-
		Modified Picture Symbols	12	1.90%	-	-	-	-	-	-
		Objects	7	1.11%	-	-	-	-	-	-
		Sign Language	5	0.79%	-	-	-	-	-	-
		Translation Into Native Language	0	0%	-	-	-	-	-	-
	Other	9	1.43%	-	-	-	-	-	-	
	8	None	537	91.02%	57.39	25.09	1	12	0.92	7.31
		Assistive Technology	14	2.37%	-	-	-	-	-	-
		Braille	1	0.17%	-	-	-	-	-	-
		Eye Gaze	9	1.53%	-	-	-	-	-	-
		Modified Picture Symbols	16	2.71%	30.88	15.77	0	0	0.80	7.13
		Objects	7	1.19%	-	-	-	-	-	-
		Sign Language	4	0.68%	-	-	-	-	-	-
Translation Into Native Language		0	0%	-	-	-	-	-	-	
Other	7	1.19%	-	-	-	-	-	-		

Table 17
Reading Descriptive Statistics by Expanded Accommodation (continued)

Content	Grade	Expanded Accommodation	Sample Size	%	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
					Mean	SD				
RD	9	None	464	89.58%	59.27	25.25	0	13	0.92	6.95
		Assistive Technology	20	3.86%	19.25	15.62	0	3	0.86	5.74
		Braille	0	0%	-	-	-	-	-	-
		Eye Gaze	8	1.54%	-	-	-	-	-	-
		Modified Picture Symbols	9	1.74%	-	-	-	-	-	-
		Objects	5	0.97%	-	-	-	-	-	-
		Sign Language	3	0.58%	-	-	-	-	-	-
		Translation Into Native Language	0	0%	-	-	-	-	-	-
	Other	14	2.70%	-	-	-	-	-	-	
	10	None	497	90.53%	52.60	23.89	1	17	0.91	7.36
		Assistive Technology	13	2.37%	-	-	-	-	-	-
		Braille	2	0.36%	-	-	-	-	-	-
		Eye Gaze	9	1.64%	-	-	-	-	-	-
		Modified Picture Symbols	5	0.91%	-	-	-	-	-	-
		Objects	3	0.55%	-	-	-	-	-	-
		Sign Language	3	0.55%	-	-	-	-	-	-
Translation Into Native Language		0	0%	-	-	-	-	-	-	
Other	11	2.00%	-	-	-	-	-	-		

Table 18
Writing Descriptive Statistics by Expanded Accommodation

Content	Grade	Expanded Accommodation	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
WR	3	None	522	88.47%	56.45	26.13	1	6	0.91	7.75
		Assistive Technology	16	2.71%	33.69	27.24	0	0	0.92	7.76
		Braille	3	0.51%	-	-	-	-	-	-
		Eye Gaze	12	2.03%	-	-	-	-	-	-
		Modified Picture Symbols	10	1.69%	-	-	-	-	-	-
		Objects	6	1.02%	-	-	-	-	-	-
		Sign Language	7	1.19%	-	-	-	-	-	-
		Translation Into Native Language	2	0.34%	-	-	-	-	-	-
	Other	14	2.37%	-	-	-	-	-	-	
	4	None	599	87.57%	59.94	27.61	0	16	0.92	7.76
		Assistive Technology	25	3.65%	35.92	23.34	0	2	0.89	7.84
		Braille	5	0.73%	-	-	-	-	-	-
		Eye Gaze	21	3.07%	17.86	18.22	0	4	0.90	5.86
		Modified Picture Symbols	14	2.05%	-	-	-	-	-	-
		Objects	9	1.32%	-	-	-	-	-	-
		Sign Language	18	2.63%	36.39	25.87	0	1	0.91	7.96
Translation Into Native Language		2	0.29%	-	-	-	-	-	-	
Other	12	1.75%	-	-	-	-	-	-		

Table 18
Writing Descriptive Statistics by Expanded Accommodation (continued)

Content	Grade	Expanded Accommodation	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
WR	5	None	581	84.20%	63.55	26.78	1	13	0.92	7.41
		Assistive Technology	37	5.36%	34.89	20.22	0	1	0.84	8.04
		Braille	3	0.43%	-	-	-	-	-	-
		Eye Gaze	20	2.90%	12.95	18.58	0	3	0.94	4.47
		Modified Picture Symbols	8	1.16%	-	-	-	-	-	-
		Objects	8	1.16%	-	-	-	-	-	-
		Sign Language	5	0.72%	-	-	-	-	-	-
		Translation Into Native Language	0	0%	-	-	-	-	-	-
	Other	23	3.33%	32.30	25.60	0	2	0.92	7.46	
	6	None	582	89.54%	66.62	26.98	5	15	0.92	7.41
		Assistive Technology	22	3.38%	42.77	27.12	0	1	0.91	8.12
		Braille	3	0.46%	-	-	-	-	-	-
		Eye Gaze	13	2.00%	-	-	-	-	-	-
		Modified Picture Symbols	11	1.69%	-	-	-	-	-	-
		Objects	8	1.23%	-	-	-	-	-	-
		Sign Language	4	0.62%	-	-	-	-	-	-
Translation Into Native Language		2	0.31%	-	-	-	-	-	-	
Other	18	2.77%	32.44	31.77	0	4	0.95	7.07		

Table 18
Writing Descriptive Statistics by Expanded Accommodation (continued)

Content	Grade	Expanded Accommodation	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
WR	7	None	552	88.18%	65.24	29.46	1	16	0.94	7.47
		Assistive Technology	31	4.95%	41.35	28.57	0	3	0.92	8.07
		Braille	1	0.16%	-	-	-	-	-	-
		Eye Gaze	11	1.76%	-	-	-	-	-	-
		Modified Picture Symbols	12	1.92%	-	-	-	-	-	-
		Objects	5	0.80%	-	-	-	-	-	-
		Sign Language	5	0.80%	-	-	-	-	-	-
		Translation Into Native Language	3	0.48%	-	-	-	-	-	-
	Other	8	1.28%	-	-	-	-	-	-	
	8	None	526	89.30%	64.16	27.93	0	14	0.93	7.51
		Assistive Technology	25	4.24%	49.28	26.10	0	1	0.90	8.16
		Braille	1	0.17%	-	-	-	-	-	-
		Eye Gaze	8	1.36%	-	-	-	-	-	-
		Modified Picture Symbols	13	2.21%	-	-	-	-	-	-
		Objects	5	0.85%	-	-	-	-	-	-
		Sign Language	4	0.68%	-	-	-	-	-	-
Translation Into Native Language		2	0.34%	-	-	-	-	-	-	
Other	5	0.85%	-	-	-	-	-	-		

Table 18
Writing Descriptive Statistics by Expanded Accommodation (continued)

Content	Grade	Expanded Accommodation	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
WR	9	None	459	88.61%	64.58	27.13	0	15	0.93	7.31
		Assistive Technology	21	4.05%	19.00	17.24	0	4	0.86	6.52
		Braille	1	0.19%	-	-	-	-	-	-
		Eye Gaze	9	1.74%	-	-	-	-	-	-
		Modified Picture Symbols	8	1.54%	-	-	-	-	-	-
		Objects	5	0.97%	-	-	-	-	-	-
		Sign Language	3	0.58%	-	-	-	-	-	-
		Translation Into Native Language	0	0%	-	-	-	-	-	-
	Other	16	3.09%	42.06	32.00	0	1	0.94	7.92	
	10	None	488	89.38%	63.90	26.95	0	17	0.92	7.59
		Assistive Technology	19	3.48%	31.68	21.18	0	1	0.85	8.19
		Braille	2	0.37%	-	-	-	-	-	-
		Eye Gaze	8	1.47%	-	-	-	-	-	-
		Modified Picture Symbols	5	0.92%	-	-	-	-	-	-
		Objects	4	0.73%	-	-	-	-	-	-
		Sign Language	3	0.55%	-	-	-	-	-	-
Translation Into Native Language		1	0.18%	-	-	-	-	-	-	
Other	11	2.01%	-	-	-	-	-	-		

Table 19
Mathematics Descriptive Statistics by Expanded Accommodation

Content	Grade	Expanded Accommodation	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
MA	3	None	503	86.28%	82.51	30.79	1	4	0.93	8.09
		Assistive Technology	15	2.57%	-	-	-	-	-	-
		Braille	3	0.51%	-	-	-	-	-	-
		Eye Gaze	12	2.06%	-	-	-	-	-	-
		Modified Picture Symbols	8	1.37%	-	-	-	-	-	-
		Objects	20	3.43%	58.60	33.40	0	1	0.93	8.70
		Sign Language	7	1.20%	-	-	-	-	-	-
		Translation Into Native Language	1	0.17%	-	-	-	-	-	-
	Other	13	2.23%	-	-	-	-	-	-	
	4	None	583	85.86%	85.65	33.80	3	15	0.94	8.16
		Assistive Technology	26	3.83%	42.19	24.43	0	1	0.87	8.71
		Braille	3	0.44%	-	-	-	-	-	-
		Eye Gaze	21	3.09%	25.62	22.84	0	4	0.90	7.37
		Modified Picture Symbols	10	1.47%	-	-	-	-	-	-
		Objects	27	3.98%	47.81	36.60	0	3	0.95	7.87
		Sign Language	17	2.50%	51.82	29.12	0	1	0.91	8.62
Translation Into Native Language		1	0.15%	-	-	-	-	-	-	
Other	11	1.62%	-	-	-	-	-	-		

Table 19
Mathematics Descriptive Statistics by Expanded Accommodation (continued)

Content	Grade	Expanded Accommodation	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
MA	5	None	565	82.24%	104.29	43.17	1	8	0.94	10.14
		Assistive Technology	40	5.82%	48.93	32.07	0	2	0.91	9.80
		Braille	3	0.44%	-	-	-	-	-	-
		Eye Gaze	20	2.91%	19.60	30.23	0	2	0.96	6.05
		Modified Picture Symbols	9	1.31%	-	-	-	-	-	-
		Objects	25	3.64%	45.44	42.37	0	2	0.96	8.79
		Sign Language	6	0.87%	-	-	-	-	-	-
		Translation Into Native Language	0	0%	-	-	-	-	-	-
	Other	22	3.20%	45.18	36.08	0	2	0.93	9.27	
	6	None	573	87.61%	85.72	35.28	1	12	0.94	8.79
		Assistive Technology	23	3.52%	40.65	29.10	0	0	0.91	8.82
		Braille	3	0.46%	-	-	-	-	-	-
		Eye Gaze	14	2.14%	-	-	-	-	-	-
		Modified Picture Symbols	12	1.83%	-	-	-	-	-	-
		Objects	19	2.91%	62.47	39.74	0	1	0.95	8.93
		Sign Language	3	0.46%	-	-	-	-	-	-
Translation Into Native Language		2	0.31%	-	-	-	-	-	-	
Other	22	3.36%	48.73	39.25	0	4	0.95	8.54		

Table 19
Mathematics Descriptive Statistics by Expanded Accommodation (continued)

Content	Grade	Expanded Accommodation	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
MA	7	None	540	86.40%	74.69	33.85	0	13	0.93	8.75
		Assistive Technology	32	5.12%	40.03	26.77	0	1	0.89	8.86
		Braille	1	0.16%	-	-	-	-	-	-
		Eye Gaze	10	1.60%	-	-	-	-	-	-
		Modified Picture Symbols	10	1.60%	-	-	-	-	-	-
		Objects	25	4.00%	62.20	35.44	0	1	0.94	9.03
		Sign Language	4	0.64%	-	-	-	-	-	-
		Translation Into Native Language	3	0.48%	-	-	-	-	-	-
	Other	13	2.08%	-	-	-	-	-	-	
	8	None	516	87.61%	84.75	36.77	1	13	0.94	9.33
		Assistive Technology	28	4.75%	50.29	27.96	0	0	0.90	9.03
		Braille	1	0.17%	-	-	-	-	-	-
		Eye Gaze	8	1.36%	-	-	-	-	-	-
		Modified Picture Symbols	14	2.38%	-	-	-	-	-	-
		Objects	16	2.72%	78.63	45.81	0	1	0.96	8.73
		Sign Language	4	0.68%	-	-	-	-	-	-
Translation Into Native Language		2	0.34%	-	-	-	-	-	-	
Other	13	2.21%	-	-	-	-	-	-		

Table 19
Mathematics Descriptive Statistics by Expanded Accommodation (continued)

Content	Grade	Expanded Accommodation	Sample Size	%	Raw Score		N	N	Coefficient Alpha	Standard Error of Measurement
					Mean	SD	Students at Max Score	Students at Min Score		
MA	9	None	463	88.87%	75.61	34.42	0	14	0.93	9.38
		Assistive Technology	21	4.03%	23.81	20.15	0	4	0.87	7.14
		Braille	0	0%	-	-	-	-	-	-
		Eye Gaze	8	1.54%	-	-	-	-	-	-
		Modified Picture Symbols	6	1.15%	-	-	-	-	-	-
		Objects	12	2.30%	-	-	-	-	-	-
		Sign Language	3	0.58%	-	-	-	-	-	-
		Translation Into Native Language	0	0%	-	-	-	-	-	-
	Other	14	2.69%	-	-	-	-	-	-	
	10	None	486	88.20%	80.25	35.66	0	18	0.93	9.64
		Assistive Technology	23	4.17%	32.91	24.86	0	3	0.88	8.74
		Braille	2	0.36%	-	-	-	-	-	-
		Eye Gaze	8	1.45%	-	-	-	-	-	-
		Modified Picture Symbols	6	1.09%	-	-	-	-	-	-
		Objects	7	1.27%	-	-	-	-	-	-
		Sign Language	3	0.54%	-	-	-	-	-	-
Translation Into Native Language		1	0.18%	-	-	-	-	-	-	
Other	12	2.18%	-	-	-	-	-	-		

Table 20
Scoring Rubric for Multiple-Choice Item Types

Total Score	Content Score	Level of Independence
3	Correct	Level 4: INDEPENDENT - Performs task without assistance
2	Correct	Level 3: PARTIAL - Partial physical, verbal, or gestural prompt
1	Correct	Level 2: LIMITED - Full physical prompt
0	Incorrect or No Response	Further coded:
		4 – Independent and incorrect
		3 – Partial and incorrect
		2 – Limited and incorrect

Table 21
Scoring Rubric for Constructed-Response Item Types

Total Score	Content Score	Level of Independence
6	Correct	Level 4: INDEPENDENT - Performs task without assistance
5	Partially Correct/Some Error	Level 4: INDEPENDENT - Performs task without assistance
4	Correct	Level 3: PARTIAL - Partial physical, verbal, or gestural prompt
3	Partially Correct/Some Error	Level 3: PARTIAL - Partial physical, verbal, or gestural prompt
2	Correct	Level 2: LIMITED - Full physical prompt
1	Partially Correct/Some Error	Level 2: LIMITED - Full physical prompt
0	Incorrect or No response	Further coded: 4 – Independent and incorrect 3 – Partial and incorrect 2 – Limited and incorrect

Table 22
Summary of Invalidations

Content	Grade	Total % Invalid	Source of Invalid		Total % Valid	
			15%	Bubble		
RD	3	5.00%	2.74%	2.26%	95.00%	
	4	4.31%	3.06%	1.25%	95.69%	
	5	4.20%	2.66%	1.54%	95.80%	
	6	5.76%	4.60%	1.15%	94.24%	
	7	4.55%	4.09%	0.45%	95.45%	
	8	6.05%	5.41%	0.64%	93.95%	
	9	8.16%	5.67%	2.48%	91.84%	
	10	7.42%	5.90%	1.52%	92.58%	
	WR	3	4.84%	2.74%	2.10%	95.16%
		4	5.00%	3.47%	1.53%	95.00%
5		3.50%	2.52%	0.98%	96.50%	
6		6.47%	4.75%	1.73%	93.53%	
7		5.15%	4.24%	0.91%	94.85%	
8		6.21%	5.41%	0.80%	93.79%	
9		8.16%	5.85%	2.30%	91.84%	
10		7.93%	5.73%	2.19%	92.07%	
MA		3	5.97%	2.90%	3.06%	94.03%
		4	5.69%	3.75%	1.94%	94.31%
	5	3.92%	2.10%	1.82%	96.08%	
	6	5.90%	4.46%	1.44%	94.10%	
	7	5.30%	3.94%	1.36%	94.70%	
	8	6.21%	5.41%	0.80%	93.79%	
	9	7.62%	5.14%	2.48%	92.38%	
	10	7.08%	5.06%	2.02%	92.92%	

Table 23
Breakdown of Invalidations Due to Test Examiners Marking Bubbles on Answer Document

		Invalidation Bubbles Available on Answer Document															
Content	Grade	Student Tested All Activities		Parental Refusal		Test Not Completed		Student Withdrew Before Completion		Misadministration		Taking TCAP Assessment		District Ed. Services		Missing	
		N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
RD	3	599	96.61%	3	0.48%	6	0.97%	1	0.16%	0	0%	2	0%	5	0.81%	4	0.65%
	4	695	96.53%	6	0.83%	3	0.42%	1	0.14%	4	0.56%	2	0.28%	6	0.83%	3	0.42%
	5	694	97.06%	3	0.42%	6	0.84%	0	0%	3	0.42%	5	0.70%	2	0.28%	2	0.28%
	6	660	94.96%	11	1.58%	11	1.58%	2	0.29%	0	0%	5	0.72%	3	0.43%	3	0.43%
	7	629	95.30%	7	1.06%	8	1.21%	4	0.61%	0	0%	5	0.76%	3	0.45%	4	0.61%
	8	591	94.11%	4	0.64%	8	1.27%	7	1.11%	1	0.16%	5	0.80%	9	1.43%	3	0.48%
	9	530	93.97%	3	0.53%	13	2.30%	2	0.35%	2	0.35%	6	1.06%	6	1.06%	2	0.35%
	10	555	93.59%	9	1.52%	9	1.52%	2	0.34%	3	0.51%	10	1.69%	2	0.34%	3	0.51%
WR	3	599	96.61%	3	0.48%	7	1.13%	1	0.16%	0	0%	1	0.16%	5	0.81%	4	0.65%
	4	692	96.11%	6	0.83%	6	0.83%	1	0.14%	4	0.56%	2	0.28%	6	0.83%	3	0.42%
	5	695	97.20%	3	0.42%	6	0.84%	0	0%	2	0.28%	5	0.70%	2	0.28%	2	0.28%
	6	659	94.82%	11	1.58%	12	1.73%	2	0.29%	0	0%	5	0.72%	3	0.43%	3	0.43%
	7	629	95.30%	7	1.06%	10	1.52%	4	0.61%	0	0%	4	0.61%	3	0.45%	3	0.45%
	8	591	94.11%	4	0.64%	8	1.27%	7	1.11%	1	0.16%	5	0.80%	9	1.43%	3	0.48%
	9	529	93.79%	4	0.71%	14	2.48%	2	0.35%	1	0.18%	6	1.06%	6	1.06%	2	0.35%
	10	556	93.76%	9	1.52%	11	1.85%	2	0.34%	0	0%	10	1.69%	2	0.34%	3	0.51%

Table 23
Breakdown of Invalidations Due to Test Examiners Marking Bubbles on Answer Document (continued)

		Invalidation Bubbles Available on Answer Document															
Content	Grade	Student Tested All Activities		Parental Refusal		Test Not Completed		Student Withdrew Before Completion		Misadministration		Taking TCAP Assessment		District Ed. Services		Missing	
		N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
MA	3	598	96.45%	3	0.48%	8	1.29%	1	0.16%	0	0%	1	0.16%	5	0.81%	4	0.65%
	4	689	95.69%	5	0.69%	7	0.97%	1	0.14%	3	0.42%	5	0.69%	6	0.83%	4	0.56%
	5	698	97.62%	3	0.42%	5	0.70%	0	0%	2	0.28%	3	0.42%	2	0.28%	2	0.28%
	6	661	95.11%	11	1.58%	10	1.44%	3	0.43%	0	0%	4	0.58%	3	0.43%	3	0.43%
	7	631	95.61%	7	1.06%	11	1.67%	4	0.61%	1	0.15%	0	0%	3	0.45%	3	0.45%
	8	591	94.11%	4	0.64%	8	1.27%	7	1.11%	1	0.16%	5	0.80%	9	1.43%	3	0.48%
	9	533	94.50%	3	0.53%	14	2.48%	2	0.35%	1	0.18%	3	0.53%	6	1.06%	2	0.35%
	10	560	94.44%	9	1.52%	12	2.02%	2	0.34%	0	0%	5	0.84%	2	0.34%	3	0.51%

Table 24
Writing Frequency Distributions of CR (6-Point) Items

Content	Grade	Item Number	% of Students Obtaining Score Level						
			0	1	2	3	4	5	6
WR	3	5	20.37%	0.34%	0.51%	0.68%	2.55%	5.43%	70.12%
		10	46.86%	0.85%	0.68%	3.06%	2.89%	14.60%	31.07%
		15	23.94%	-	0.51%	0.85%	2.21%	8.32%	64.18%
		20	49.24%	2.04%	0.34%	4.58%	0.51%	36.16%	7.13%
		24	48.05%	1.87%	0.17%	4.41%	0.17%	35.82%	9.51%
		29	27.50%	0.85%	0.17%	1.53%	1.36%	17.66%	50.93%
	4	5	18.51%	0.15%	0.58%	0.73%	2.33%	4.52%	73.18%
		10	43.73%	0.73%	0.29%	1.60%	2.04%	12.10%	39.50%
		15	24.05%	0.15%	0.58%	0.73%	1.46%	7.87%	65.16%
		20	42.13%	1.60%	-	4.37%	0.73%	35.86%	15.31%
		25	43.29%	0.87%	0.15%	1.75%	0.87%	37.17%	15.89%
		30	25.22%	-	-	0.44%	0.87%	12.83%	60.64%
	5	5	17.54%	0.14%	0.29%	0.14%	2.46%	4.20%	75.22%
		10	39.42%	0.29%	0.72%	2.61%	1.59%	12.90%	42.46%
		15	20.73%	0.14%	0.43%	0.87%	0.43%	5.94%	71.45%
		20	38.41%	1.16%	0.29%	2.61%	0.87%	35.51%	21.16%
		24	37.83%	1.16%	0.14%	2.46%	0.72%	36.09%	21.59%
		29	25.22%	0.14%	0.29%	0.72%	1.16%	9.71%	62.75%
	6	5	15.08%	0.15%	1.08%	0.15%	2.31%	3.39%	77.85%
		10	32.31%	0.46%	0.62%	2.00%	1.85%	7.39%	55.39%
		15	20.15%	-	0.77%	0.31%	0.77%	8.77%	69.23%
		20	34.92%	0.92%	0.31%	2.92%	1.08%	32.15%	27.69%
		24	32.00%	0.46%	0.31%	3.38%	1.54%	38.31%	24.00%
		29	21.69%	0.15%	0.62%	0.77%	1.38%	13.23%	62.15%

Table 24
Writing Frequency Distributions of CR (6-Point) Items (continued)

Content Area	Grade	Item Number	% of Students Obtaining Score Level						
			0	1	2	3	4	5	6
WR	7	5	15.68%	0.16%	1.12%	0.32%	0.96%	2.56%	79.20%
		10	34.08%	0.96%	0.96%	1.44%	2.40%	8.32%	51.84%
		15	19.52%	0.16%	1.28%	0.32%	0.48%	3.52%	74.72%
		20	34.40%	1.12%	0.48%	2.56%	1.44%	31.36%	28.64%
		25	33.60%	1.76%	0.96%	2.56%	1.44%	38.08%	21.60%
		30	30.56%	0.32%	1.12%	0.80%	2.08%	6.24%	58.88%
	8	5	15.62%	0.17%	-	0.34%	1.19%	2.04%	80.65%
		10	35.14%	-	0.85%	2.21%	2.21%	11.21%	48.39%
		15	17.83%	-	0.34%	0.34%	0.85%	4.41%	76.23%
		20	29.20%	0.68%	0.34%	2.89%	1.02%	33.96%	31.92%
		25	28.69%	0.85%	0.51%	3.57%	1.19%	37.01%	28.18%
		30	26.83%	0.34%	0.68%	1.36%	2.38%	10.36%	58.07%
	9	5	16.76%	0.19%	0.39%	0.96%	1.35%	4.82%	75.53%
		10	27.75%	1.16%	0.77%	1.54%	2.12%	8.09%	58.57%
		15	17.92%	-	0.58%	0.77%	0.77%	3.28%	76.69%
		20	27.55%	1.93%	0.58%	2.31%	1.35%	32.76%	33.53%
		24	27.94%	1.73%	0.96%	3.47%	2.31%	35.65%	27.94%
		29	25.43%	0.58%	1.73%	1.16%	2.50%	9.25%	59.35%
	10	5	15.85%	0.36%	-	0.36%	1.64%	4.55%	77.23%
		10	29.33%	1.46%	1.28%	0.91%	2.73%	7.47%	56.83%
		15	19.49%	0.36%	0.36%	0.36%	1.64%	6.38%	71.40%
		20	27.14%	1.28%	0.73%	2.00%	1.46%	34.97%	32.42%
		25	27.51%	0.73%	0.18%	3.10%	2.55%	39.71%	26.23%
		30	23.68%	-	1.64%	0.73%	3.10%	14.03%	56.83%

Table 25
Mathematics Frequency Distributions of CR (6-Point) Items

Content	Grade	Item Number	% of Students Obtaining Score Level						
			0	1	2	3	4	5	6
MA	3	2	15.73%	1.37%	1.88%	2.05%	3.59%	11.11%	64.27%
		4	32.14%	1.88%	1.71%	4.44%	4.44%	18.63%	36.75%
		5	19.66%	1.03%	0.68%	1.71%	2.05%	7.69%	67.18%
		9	23.08%	1.88%	1.88%	2.91%	3.42%	14.02%	52.82%
		12	34.19%	1.54%	2.05%	6.32%	5.30%	34.36%	16.24%
		13	29.92%	1.88%	3.25%	2.56%	6.50%	8.38%	47.52%
		17	33.50%	0.68%	1.88%	1.71%	3.76%	9.06%	49.40%
		23	8.89%	0.85%	1.71%	1.20%	6.15%	3.42%	77.78%
		24	38.46%	2.74%	1.88%	5.81%	1.03%	36.58%	13.50%
	26	25.64%	2.22%	4.27%	9.06%	2.91%	47.35%	8.55%	
	4	2	17.01%	1.32%	2.35%	1.47%	3.08%	11.88%	62.90%
		3	17.74%	0.15%	0.59%	1.91%	1.47%	7.19%	70.97%
		4	25.95%	0.44%	1.17%	4.55%	3.96%	18.62%	45.31%
		9	30.94%	1.03%	1.03%	2.49%	3.23%	17.89%	43.40%
		12	38.42%	1.76%	1.76%	4.40%	5.13%	21.26%	27.27%
		16	42.52%	0.73%	2.35%	1.03%	6.45%	4.69%	42.23%
		18	11.44%	0.15%	1.17%	1.47%	3.52%	3.52%	78.74%
		19	24.93%	1.03%	2.64%	2.79%	6.60%	4.55%	57.48%
		20	35.34%	3.37%	2.79%	5.57%	5.87%	13.20%	33.87%
26		30.35%	1.32%	2.64%	6.60%	4.25%	31.97%	22.87%	
28	57.77%	0.29%	1.47%	1.91%	2.64%	14.22%	21.70%		

Table 25
Mathematics Frequency Distributions of CR (6-Point) Items (continued)

Content	Grade	Item Number	% of Students Obtaining Score Level						
			0	1	2	3	4	5	6
MA	5	3	31.44%	0.87%	1.02%	5.82%	4.51%	21.98%	34.35%
		4	21.40%	0.87%	1.02%	3.35%	1.60%	17.76%	54.00%
		5	37.85%	0.58%	2.62%	2.62%	7.13%	16.59%	32.61%
		6	52.84%	0.87%	1.02%	3.06%	2.62%	16.59%	23.00%
		9	19.21%	0.44%	0.44%	1.31%	0.58%	12.08%	65.94%
		12	27.37%	1.31%	1.02%	1.60%	3.20%	9.46%	56.04%
		13	33.77%	1.16%	0.87%	3.20%	2.18%	14.99%	43.81%
		17	48.18%	0.87%	1.31%	4.37%	1.89%	30.42%	12.96%
		18	61.72%	0.73%	1.02%	2.33%	1.16%	8.59%	24.45%
		22	11.06%	1.60%	0.87%	2.47%	1.31%	7.28%	75.40%
	23	18.78%	2.33%	2.18%	2.47%	3.64%	13.10%	57.50%	
	25	39.74%	2.18%	2.47%	3.64%	5.39%	9.03%	37.56%	
	26	36.83%	1.31%	2.91%	6.26%	4.08%	26.49%	22.13%	
	27	44.69%	1.89%	3.49%	4.66%	3.20%	20.52%	21.54%	
	28	66.96%	0.15%	1.46%	1.60%	3.35%	9.17%	17.32%	
	29	42.50%	2.33%	3.06%	4.66%	4.95%	12.81%	29.69%	
	31	22.13%	0.44%	1.31%	0.15%	3.06%	5.24%	67.69%	
	6	1	24.96%	1.23%	1.07%	5.05%	3.52%	25.42%	38.74%
		2	22.36%	1.07%	1.07%	2.76%	2.30%	14.70%	55.74%
		3	15.01%	0.46%	0.46%	2.30%	1.53%	11.95%	68.30%
4		32.31%	0.31%	2.76%	2.14%	9.65%	14.09%	38.74%	
6		25.42%	0.77%	0.92%	2.30%	3.37%	12.25%	54.98%	
12		27.57%	1.99%	1.53%	6.28%	3.98%	35.84%	22.82%	
15		29.40%	0.31%	2.45%	2.60%	7.66%	8.58%	49.01%	
19		17.46%	1.23%	1.38%	4.75%	6.74%	6.43%	62.02%	
20		45.48%	1.38%	2.45%	3.68%	6.59%	6.28%	34.15%	
29		26.19%	1.53%	1.99%	4.90%	4.90%	24.04%	36.45%	
30	60.34%	0.77%	1.23%	2.30%	1.68%	18.07%	15.62%		
31	34.30%	0.92%	2.76%	3.22%	6.43%	9.95%	42.42%		

Table 25
Mathematics Frequency Distributions of CR (6-Point) Items (continued)

Content	Grade	Item Number	% of Students Obtaining Score Level						
			0	1	2	3	4	5	6
MA	7	1	24.68%	1.12%	0.80%	7.37%	2.40%	42.63%	20.99%
		2	21.15%	1.12%	0.96%	2.88%	2.40%	17.63%	53.85%
		3	15.55%	0.80%	1.28%	1.92%	1.92%	10.90%	67.63%
		4	28.85%	0.48%	3.37%	1.60%	8.97%	11.38%	45.35%
		6	23.72%	0.96%	1.28%	2.56%	4.65%	12.18%	54.65%
		16	47.92%	1.28%	2.40%	1.76%	4.01%	8.97%	33.65%
		17	15.06%	2.72%	2.40%	2.08%	6.57%	5.29%	65.87%
		20	44.07%	0.80%	2.56%	2.56%	6.41%	17.47%	26.12%
		26	29.81%	0.32%	1.92%	4.17%	3.21%	30.61%	29.97%
	8	27	26.44%	1.12%	1.60%	4.65%	4.49%	21.96%	39.74%
		29	54.81%	0.64%	1.76%	1.60%	4.17%	8.65%	28.37%
		1	26.78%	0.51%	1.02%	5.93%	1.19%	42.88%	21.70%
		2	21.19%	0.51%	0.68%	2.54%	1.69%	22.20%	51.19%
		3	32.03%	0.51%	2.37%	1.36%	7.12%	13.56%	43.05%
		4	47.12%	0.17%	2.03%	0.34%	6.78%	5.09%	38.48%
		6	19.32%	0.68%	1.02%	2.37%	2.03%	29.15%	45.42%
		7	32.37%	0.68%	2.37%	3.39%	7.97%	9.32%	43.90%
		18	34.41%	2.54%	1.36%	2.54%	6.44%	6.95%	45.76%
		21	18.64%	2.54%	1.86%	1.86%	4.07%	7.29%	63.73%
29	33.05%	1.02%	2.20%	3.56%	2.37%	34.75%	23.05%		
30	25.93%	1.53%	2.88%	2.88%	4.92%	32.37%	29.49%		
31	49.15%	0.68%	2.03%	2.71%	3.73%	10.34%	31.36%		

Table 25
Mathematics Frequency Distributions of CR (6-Point) Items (continued)

Content	Grade	Item Number	% of Students Obtaining Score Level						
			0	1	2	3	4	5	6
MA	9	1	20.42%	0.76%	2.67%	4.58%	2.67%	22.14%	46.76%
		2	21.76%	1.15%	0.95%	2.86%	0.76%	16.99%	55.53%
		3	32.25%	1.34%	2.67%	0.95%	7.63%	9.35%	45.80%
		5	19.08%	0.95%	0.95%	2.67%	1.53%	26.53%	48.28%
		6	46.76%	1.72%	2.67%	4.01%	7.63%	9.54%	27.67%
		13	32.25%	2.10%	2.48%	5.92%	5.92%	18.13%	33.21%
		15	34.35%	1.72%	4.58%	3.05%	3.82%	7.25%	45.23%
		25	36.64%	1.15%	1.15%	3.44%	4.20%	18.89%	34.54%
		28	30.34%	0.19%	1.53%	3.24%	4.01%	25.95%	34.73%
		29	46.76%	1.15%	1.15%	0.76%	3.82%	16.99%	29.39%
	10	1	25.91%	1.27%	0.91%	4.89%	2.36%	23.73%	40.94%
		2	19.20%	0.72%	0.72%	4.35%	1.27%	19.57%	54.17%
		3	32.61%	0.72%	2.17%	2.36%	6.88%	9.06%	46.20%
		4	37.86%	0.91%	3.08%	2.36%	6.88%	8.88%	40.04%
		6	19.02%	1.09%	0.72%	2.90%	2.72%	21.56%	51.99%
		15	24.46%	3.62%	2.17%	4.35%	4.89%	10.33%	50.18%
		19	45.11%	1.63%	2.17%	4.53%	4.71%	13.23%	28.62%
		24	15.04%	0.72%	1.09%	1.27%	4.71%	4.17%	73.01%
		28	32.25%	0.36%	1.63%	4.17%	4.35%	28.26%	28.99%
		29	27.90%	1.27%	0.54%	7.07%	1.63%	44.57%	17.03%
	30	49.46%	1.45%	0.72%	5.98%	2.54%	22.10%	17.75%	
	36	51.99%	1.27%	3.26%	3.44%	7.43%	10.33%	22.28%	

Table 26
Reading Item Level Statistics With and Without Level of Independence

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
		1	3	0.70	0.64	1	0.67	0.63
		2	3	0.48	0.48	1	0.45	0.50
		3	3	0.35	0.44	1	0.32	0.46
		4	3	0.23	0.26	1	0.21	0.27
		5	3	0.24	0.31	1	0.22	0.34
		6	3	0.52	0.46	1	0.48	0.49
		7	3	0.62	0.51	1	0.56	0.53
		8	3	0.68	0.47	1	0.64	0.50
		9	3	0.42	0.28	1	0.39	0.30
		10	3	0.30	0.39	1	0.27	0.39
		11	3	0.66	0.47	1	0.63	0.49
		12	3	0.72	0.59	1	0.67	0.60
		13	3	0.84	0.65	1	0.81	0.66
		14	3	0.87	0.60	1	0.85	0.61
		15	3	0.74	0.64	1	0.71	0.67
		16	3	0.75	0.67	1	0.72	0.70
		17	3	0.80	0.67	1	0.78	0.69
RD	3	18	3	0.32	0.35	1	0.30	0.33
		19	3	0.78	0.63	1	0.75	0.65
		20	3	0.26	0.24	1	0.23	0.26
		21	3	0.70	0.61	1	0.66	0.62
		22	3	0.76	0.66	1	0.74	0.68
		23	3	0.59	0.62	1	0.55	0.63
		24	3	0.72	0.65	1	0.70	0.65
		25	3	0.42	0.57	1	0.38	0.58
		26	3	0.56	0.64	1	0.52	0.66
		27	3	0.53	0.50	1	0.51	0.51
		28	3	0.48	0.52	1	0.45	0.54
		29	3	0.54	0.58	1	0.52	0.59
		30	3	0.36	0.46	1	0.33	0.47
		31	3	0.58	0.59	1	0.56	0.58
		32	3	0.34	0.41	1	0.31	0.43
		33	3	0.34	0.48	1	0.31	0.48
		34	3	0.38	0.30	1	0.35	0.31
		35	3	0.46	0.63	1	0.43	0.62

Table 26
Reading Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
		1	3	0.59	0.57	1	0.55	0.57
		2	3	0.28	0.35	1	0.25	0.37
		3	3	0.24	0.35	1	0.21	0.36
		4	3	0.52	0.60	1	0.49	0.61
		5	3	0.39	0.52	1	0.37	0.53
		6	3	0.60	0.66	1	0.57	0.65
		7	3	0.64	0.57	1	0.61	0.59
		8	3	0.59	0.63	1	0.57	0.64
		9	3	0.50	0.50	1	0.49	0.51
		10	3	0.39	0.49	1	0.36	0.49
		11	3	0.84	0.65	1	0.82	0.66
		12	3	0.84	0.63	1	0.83	0.65
		13	3	0.80	0.57	1	0.78	0.59
		14	3	0.71	0.69	1	0.68	0.69
		15	3	0.71	0.60	1	0.69	0.60
		16	3	0.78	0.67	1	0.76	0.67
		17	3	0.79	0.63	1	0.77	0.64
RD	4	18	3	0.82	0.67	1	0.81	0.68
		19	3	0.28	0.34	1	0.26	0.37
		20	3	0.43	0.36	1	0.40	0.37
		21	3	0.59	0.61	1	0.56	0.64
		22	3	0.32	0.35	1	0.30	0.34
		23	3	0.72	0.66	1	0.70	0.67
		24	3	0.69	0.65	1	0.67	0.65
		25	3	0.62	0.60	1	0.59	0.61
		26	3	0.53	0.55	1	0.50	0.55
		27	3	0.42	0.45	1	0.39	0.46
		28	3	0.33	0.48	1	0.31	0.49
		29	3	0.29	0.45	1	0.26	0.47
		30	3	0.47	0.39	1	0.45	0.41
		31	3	0.53	0.54	1	0.51	0.56
		32	3	0.43	0.44	1	0.40	0.46
		33	3	0.58	0.50	1	0.54	0.51
		34	3	0.42	0.53	1	0.39	0.54
		35	3	0.37	0.55	1	0.36	0.55

Table 26
Reading Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
		1	3	0.65	0.63	1	0.63	0.65
		2	3	0.75	0.65	1	0.73	0.66
		3	3	0.36	0.41	1	0.33	0.43
		4	3	0.51	0.54	1	0.48	0.56
		5	3	0.46	0.50	1	0.43	0.50
		6	3	0.43	0.53	1	0.41	0.53
		7	3	0.40	0.46	1	0.38	0.47
		8	3	0.45	0.47	1	0.41	0.50
		9	3	0.45	0.62	1	0.43	0.62
		10	3	0.53	0.41	1	0.51	0.43
		11	3	0.74	0.71	1	0.72	0.71
		12	3	0.85	0.63	1	0.84	0.64
		13	3	0.83	0.64	1	0.81	0.66
		14	3	0.71	0.63	1	0.69	0.64
		15	3	0.74	0.65	1	0.72	0.64
		16	3	0.81	0.66	1	0.80	0.66
		17	3	0.40	0.41	1	0.38	0.42
RD	5	18	3	0.23	0.21	1	0.21	0.23
		19	3	0.48	0.58	1	0.45	0.60
		20	3	0.45	0.56	1	0.42	0.55
		21	3	0.70	0.73	1	0.67	0.73
		22	3	0.53	0.55	1	0.50	0.55
		23	3	0.58	0.58	1	0.55	0.59
		24	3	0.36	0.25	1	0.34	0.25
		25	3	0.69	0.68	1	0.68	0.68
		26	3	0.46	0.53	1	0.44	0.53
		27	3	0.38	0.51	1	0.36	0.51
		28	3	0.60	0.61	1	0.57	0.62
		29	3	0.61	0.71	1	0.59	0.72
		30	3	0.63	0.69	1	0.60	0.70
		31	3	0.67	0.66	1	0.64	0.67
		32	3	0.40	0.52	1	0.38	0.54
		33	3	0.48	0.66	1	0.46	0.66
		34	3	0.45	0.45	1	0.43	0.47
		35	3	0.68	0.70	1	0.64	0.72

Table 26
Reading Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
		1	3	0.26	0.37	1	0.23	0.36
		2	3	0.77	0.61	1	0.75	0.62
		3	3	0.45	0.54	1	0.44	0.55
		4	3	0.74	0.55	1	0.73	0.56
		5	3	0.60	0.61	1	0.58	0.62
		6	3	0.34	0.50	1	0.33	0.52
		7	3	0.34	0.17	1	0.32	0.19
		8	3	0.25	0.34	1	0.25	0.33
		9	3	0.74	0.62	1	0.72	0.64
		10	3	0.39	0.44	1	0.37	0.45
		11	3	0.87	0.67	1	0.85	0.68
		12	3	0.83	0.70	1	0.82	0.71
		13	3	0.85	0.67	1	0.84	0.69
		14	3	0.71	0.53	1	0.69	0.52
		15	3	0.76	0.57	1	0.74	0.60
		16	3	0.81	0.71	1	0.80	0.72
		17	3	0.80	0.68	1	0.79	0.68
RD	6	18	3	0.58	0.67	1	0.57	0.66
		19	3	0.50	0.54	1	0.48	0.54
		20	3	0.65	0.68	1	0.63	0.70
		21	3	0.70	0.68	1	0.68	0.68
		22	3	0.78	0.61	1	0.76	0.60
		23	3	0.49	0.60	1	0.47	0.60
		24	3	0.52	0.60	1	0.50	0.61
		25	3	0.50	0.49	1	0.49	0.51
		26	3	0.51	0.55	1	0.49	0.56
		27	3	0.40	0.47	1	0.40	0.49
		28	3	0.56	0.63	1	0.55	0.65
		29	3	0.84	0.64	1	0.83	0.64
		30	3	0.71	0.66	1	0.70	0.67
		31	3	0.75	0.58	1	0.73	0.60
		32	3	0.47	0.57	1	0.45	0.57
		33	3	0.66	0.66	1	0.64	0.65
		34	3	0.44	0.42	1	0.42	0.43
		35	3	0.82	0.55	1	0.81	0.56

Table 26
Reading Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
		1	3	0.62	0.60	1	0.61	0.61
		2	3	0.35	0.35	1	0.33	0.36
		3	3	0.43	0.38	1	0.41	0.41
		4	3	0.53	0.51	1	0.52	0.53
		5	3	0.34	0.30	1	0.31	0.32
		6	3	0.45	0.43	1	0.42	0.44
		7	3	0.43	0.53	1	0.42	0.53
		8	3	0.36	0.52	1	0.34	0.52
		9	3	0.23	0.36	1	0.22	0.37
		10	3	0.26	0.24	1	0.25	0.26
		11	3	0.27	0.31	1	0.26	0.32
		12	3	0.62	0.64	1	0.60	0.65
		13	3	0.85	0.65	1	0.84	0.67
		14	3	0.66	0.63	1	0.64	0.65
		15	3	0.82	0.66	1	0.80	0.68
		16	3	0.84	0.67	1	0.82	0.69
		17	3	0.80	0.69	1	0.78	0.71
RD	7	18	3	0.80	0.70	1	0.78	0.72
		19	3	0.57	0.56	1	0.54	0.57
		20	3	0.64	0.60	1	0.63	0.62
		21	3	0.81	0.69	1	0.79	0.69
		22	3	0.68	0.69	1	0.66	0.71
		23	3	0.46	0.43	1	0.45	0.43
		24	3	0.78	0.61	1	0.76	0.63
		25	3	0.42	0.60	1	0.41	0.60
		26	3	0.27	0.38	1	0.26	0.39
		27	3	0.45	0.56	1	0.43	0.56
		28	3	0.56	0.64	1	0.54	0.65
		29	3	0.34	0.42	1	0.32	0.43
		30	3	0.61	0.60	1	0.60	0.61
		31	3	0.39	0.23	1	0.37	0.24
		32	3	0.25	0.46	1	0.23	0.47
		33	3	0.61	0.36	1	0.59	0.39
		34	3	0.71	0.66	1	0.69	0.67
		35	3	0.49	0.53	1	0.48	0.54

Table 26
Reading Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
		1	3	0.35	0.46	1	0.34	0.46
		2	3	0.48	0.54	1	0.45	0.55
		3	3	0.31	0.38	1	0.29	0.38
		4	3	0.33	0.33	1	0.31	0.33
		5	3	0.42	0.54	1	0.41	0.54
		6	3	0.38	0.34	1	0.37	0.35
		7	3	0.39	0.46	1	0.38	0.46
		8	3	0.52	0.56	1	0.51	0.56
		9	3	0.39	0.54	1	0.37	0.55
		10	3	0.37	0.46	1	0.36	0.45
		11	3	0.68	0.62	1	0.67	0.62
		12	3	0.84	0.61	1	0.83	0.63
		13	3	0.50	0.48	1	0.49	0.48
		14	3	0.81	0.63	1	0.81	0.64
		15	3	0.75	0.68	1	0.74	0.68
		16	3	0.72	0.69	1	0.70	0.68
		17	3	0.69	0.68	1	0.68	0.69
RD	8	18	3	0.73	0.65	1	0.72	0.64
		19	3	0.43	0.53	1	0.41	0.52
		20	3	0.75	0.63	1	0.73	0.62
		21	3	0.37	0.35	1	0.36	0.34
		22	3	0.47	0.56	1	0.45	0.56
		23	3	0.57	0.57	1	0.55	0.57
		24	3	0.63	0.58	1	0.61	0.58
		25	3	0.56	0.53	1	0.54	0.53
		26	3	0.52	0.49	1	0.51	0.48
		27	3	0.49	0.52	1	0.48	0.52
		28	3	0.52	0.52	1	0.52	0.52
		29	3	0.40	0.53	1	0.39	0.52
		30	3	0.54	0.49	1	0.53	0.49
		31	3	0.35	0.34	1	0.34	0.34
		32	3	0.50	0.54	1	0.48	0.54
		33	3	0.48	0.42	1	0.47	0.43
		34	3	0.51	0.56	1	0.49	0.57
		35	3	0.62	0.63	1	0.61	0.63

Table 26
Reading Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
		1	3	0.41	0.45	1	0.40	0.46
		2	3	0.46	0.56	1	0.45	0.57
		3	3	0.50	0.58	1	0.49	0.59
		4	3	0.48	0.61	1	0.47	0.61
		5	3	0.50	0.58	1	0.49	0.60
		6	3	0.47	0.61	1	0.46	0.62
		7	3	0.48	0.47	1	0.46	0.48
		8	3	0.50	0.58	1	0.48	0.57
		9	3	0.29	0.40	1	0.26	0.40
		10	3	0.60	0.41	1	0.57	0.41
		11	3	0.66	0.63	1	0.64	0.63
		12	3	0.64	0.63	1	0.63	0.63
		13	3	0.83	0.63	1	0.82	0.65
		14	3	0.85	0.60	1	0.84	0.63
		15	3	0.70	0.64	1	0.69	0.64
		16	3	0.71	0.67	1	0.69	0.68
		17	3	0.77	0.68	1	0.76	0.69
RD	9	18	3	0.73	0.64	1	0.71	0.65
		19	3	0.76	0.64	1	0.74	0.66
		20	3	0.48	0.52	1	0.46	0.54
		21	3	0.39	0.43	1	0.36	0.42
		22	3	0.68	0.68	1	0.67	0.69
		23	3	0.66	0.63	1	0.63	0.65
		24	3	0.46	0.50	1	0.44	0.51
		25	3	0.52	0.62	1	0.50	0.64
		26	3	0.56	0.62	1	0.54	0.63
		27	3	0.42	0.44	1	0.40	0.45
		28	3	0.54	0.48	1	0.52	0.50
		29	3	0.31	0.27	1	0.30	0.27
		30	3	0.59	0.73	1	0.58	0.74
		31	3	0.52	0.64	1	0.50	0.65
		32	3	0.29	0.37	1	0.27	0.37
		33	3	0.53	0.57	1	0.51	0.56
		34	3	0.44	0.50	1	0.41	0.47

Table 26
Reading Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Points	Difficulty	Correlation	Points	Difficulty	Correlation
RD	10	1	3	0.55	0.53	1	0.53	0.53
		2	3	0.40	0.38	1	0.38	0.39
		3	3	0.26	0.37	1	0.24	0.37
		4	3	0.41	0.30	1	0.38	0.33
		5	3	0.42	0.40	1	0.40	0.41
		6	3	0.47	0.41	1	0.45	0.43
		7	3	0.32	0.34	1	0.30	0.34
		8	3	0.59	0.61	1	0.57	0.59
		9	3	0.38	0.46	1	0.35	0.45
		10	3	0.60	0.44	1	0.58	0.44
		11	3	0.69	0.37	1	0.67	0.38
		12	3	0.50	0.49	1	0.48	0.50
		13	3	0.71	0.60	1	0.70	0.61
		14	3	0.45	0.31	1	0.43	0.31
		15	3	0.75	0.61	1	0.73	0.60
		16	3	0.56	0.58	1	0.54	0.58
		17	3	0.31	0.38	1	0.29	0.36
		18	3	0.51	0.54	1	0.50	0.53
		19	3	0.53	0.53	1	0.50	0.54
		20	3	0.47	0.44	1	0.46	0.44
		21	3	0.43	0.50	1	0.40	0.49
		22	3	0.44	0.51	1	0.43	0.51
		23	3	0.62	0.67	1	0.61	0.67
		24	3	0.45	0.40	1	0.43	0.40
		25	3	0.57	0.61	1	0.54	0.61
		26	3	0.28	0.34	1	0.27	0.33
		27	3	0.37	0.45	1	0.36	0.46
		28	3	0.50	0.62	1	0.48	0.62
		29	3	0.63	0.63	1	0.61	0.64
		30	3	0.70	0.66	1	0.69	0.66
		31	3	0.48	0.59	1	0.46	0.58
		32	3	0.60	0.65	1	0.59	0.66
		33	3	0.59	0.69	1	0.57	0.69
		34	3	0.38	0.55	1	0.37	0.54

Table 27
Writing Item Level Statistics With and Without Level of Independence

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
		1	3	0.30	0.25	1	0.26	0.25
		2	3	0.60	0.61	1	0.54	0.62
		3	3	0.75	0.67	1	0.73	0.66
		4	3	0.69	0.65	1	0.67	0.65
		5	6	0.77	0.73	2	0.73	0.73
		6	3	0.49	0.51	1	0.44	0.51
		7	3	0.49	0.57	1	0.45	0.60
		8	3	0.75	0.62	1	0.72	0.63
		9	3	0.81	0.56	1	0.80	0.56
		10	6	0.47	0.80	2	0.38	0.76
		11	3	0.72	0.67	1	0.69	0.68
		12	3	0.51	0.65	1	0.50	0.65
		13	3	0.41	0.50	1	0.38	0.50
		14	3	0.49	0.47	1	0.45	0.47
WR	3	15	6	0.73	0.74	2	0.68	0.71
		16	3	0.47	0.57	1	0.45	0.58
		17	3	0.38	0.38	1	0.36	0.41
		18	3	0.49	0.45	1	0.45	0.47
		19	3	0.33	0.26	1	0.30	0.26
		20	6	0.40	0.80	2	0.25	0.72
		21	3	0.27	0.29	1	0.24	0.30
		22	3	0.41	0.54	1	0.37	0.56
		23	3	0.48	0.50	1	0.45	0.51
		24	6	0.42	0.81	2	0.27	0.75
		25	3	0.29	0.28	1	0.27	0.29
		26	3	0.33	0.29	1	0.31	0.30
		27	3	0.47	0.51	1	0.43	0.51
		28	3	0.28	0.26	1	0.24	0.28
		29	6	0.68	0.78	2	0.60	0.77

Table 27
Writing Item Level Statistics With and Without Level of Independence (continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Points	Difficulty	Correlation	Points	Difficulty	Correlation
WR	4	1	3	0.32	0.34	1	0.27	0.34
		2	3	0.39	0.48	1	0.36	0.48
		3	3	0.68	0.67	1	0.65	0.65
		4	3	0.62	0.59	1	0.59	0.60
		5	6	0.79	0.75	2	0.75	0.76
		6	3	0.32	0.24	1	0.30	0.26
		7	3	0.50	0.57	1	0.48	0.60
		8	3	0.70	0.58	1	0.67	0.59
		9	3	0.63	0.71	1	0.59	0.71
		10	6	0.52	0.82	2	0.46	0.81
		11	3	0.74	0.70	1	0.71	0.70
		12	3	0.69	0.67	1	0.66	0.69
		13	3	0.26	0.41	1	0.24	0.42
		14	3	0.55	0.64	1	0.53	0.64
		15	6	0.73	0.78	2	0.69	0.77
		16	3	0.49	0.49	1	0.48	0.51
		17	3	0.27	0.42	1	0.25	0.46
		18	3	0.52	0.51	1	0.49	0.53
		19	3	0.34	0.28	1	0.31	0.29
		20	6	0.48	0.82	2	0.33	0.77
		21	3	0.18	0.17	1	0.16	0.19
		22	3	0.49	0.47	1	0.48	0.48
		23	3	0.52	0.57	1	0.49	0.59
		24	3	0.48	0.57	1	0.47	0.60
		25	6	0.49	0.83	2	0.35	0.79
		26	3	0.43	0.46	1	0.41	0.49
		27	3	0.36	0.32	1	0.35	0.34
		28	3	0.53	0.52	1	0.49	0.52
		29	3	0.35	0.41	1	0.32	0.43
		30	6	0.73	0.78	2	0.67	0.77

Table 27
Writing Item Level Statistics With and Without Level of Independence (continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Points	Difficulty	Correlation	Points	Difficulty	Correlation
WR	5	1	3	0.42	0.42	1	0.38	0.44
		2	3	0.71	0.63	1	0.69	0.64
		3	3	0.75	0.65	1	0.73	0.64
		4	3	0.72	0.69	1	0.70	0.68
		5	6	0.81	0.76	2	0.77	0.75
		6	3	0.29	0.38	1	0.27	0.39
		7	3	0.47	0.51	1	0.45	0.52
		8	3	0.73	0.61	1	0.71	0.63
		9	3	0.70	0.60	1	0.67	0.61
		10	6	0.56	0.85	2	0.49	0.82
		11	3	0.73	0.67	1	0.70	0.68
		12	3	0.70	0.70	1	0.68	0.70
		13	3	0.33	0.39	1	0.31	0.41
		14	3	0.60	0.59	1	0.58	0.61
		15	6	0.77	0.77	2	0.75	0.77
		16	3	0.61	0.53	1	0.59	0.56
		17	3	0.47	0.54	1	0.45	0.56
		18	3	0.53	0.54	1	0.50	0.55
		19	3	0.26	0.28	1	0.24	0.29
		20	6	0.53	0.85	2	0.39	0.80
		21	3	0.36	0.45	1	0.35	0.47
		22	3	0.57	0.60	1	0.55	0.60
		23	3	0.22	0.28	1	0.20	0.30
		24	6	0.54	0.86	2	0.40	0.81
		25	3	0.36	0.40	1	0.35	0.42
		26	3	0.42	0.36	1	0.40	0.38
		27	3	0.44	0.48	1	0.41	0.52
		28	3	0.50	0.50	1	0.48	0.50
		29	6	0.73	0.82	2	0.68	0.80

Table 27
Writing Item Level Statistics With and Without Level of Independence (continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Points	Difficulty	Correlation	Points	Difficulty	Correlation
WR	6	1	3	0.69	0.61	1	0.66	0.61
		2	3	0.71	0.65	1	0.69	0.65
		3	3	0.73	0.70	1	0.70	0.68
		4	3	0.76	0.69	1	0.74	0.69
		5	6	0.83	0.77	2	0.80	0.76
		6	3	0.73	0.71	1	0.72	0.70
		7	3	0.49	0.38	1	0.48	0.40
		8	3	0.72	0.74	1	0.70	0.74
		9	3	0.66	0.66	1	0.64	0.66
		10	6	0.64	0.84	2	0.59	0.82
		11	3	0.73	0.68	1	0.70	0.69
		12	3	0.78	0.69	1	0.77	0.69
		13	3	0.50	0.45	1	0.49	0.48
		14	3	0.49	0.40	1	0.47	0.42
		15	6	0.77	0.78	2	0.74	0.76
		16	3	0.72	0.67	1	0.71	0.67
		17	3	0.45	0.46	1	0.43	0.49
		18	3	0.47	0.47	1	0.45	0.46
		19	3	0.35	0.20	1	0.33	0.21
		20	6	0.57	0.82	2	0.44	0.78
		21	3	0.43	0.38	1	0.42	0.39
		22	3	0.52	0.39	1	0.50	0.41
		23	3	0.38	0.31	1	0.37	0.32
		24	6	0.59	0.83	2	0.43	0.77
		25	3	0.47	0.45	1	0.45	0.46
		26	3	0.36	0.29	1	0.35	0.32
		27	3	0.44	0.45	1	0.40	0.45
		28	3	0.44	0.43	1	0.42	0.46
		29	6	0.75	0.80	2	0.69	0.78

Table 27
Writing Item Level Statistics With and Without Level of Independence (continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Points	Difficulty	Correlation	Points	Difficulty	Correlation
WR	7	1	3	0.74	0.60	1	0.71	0.62
		2	3	0.47	0.62	1	0.46	0.64
		3	3	0.75	0.71	1	0.72	0.68
		4	3	0.77	0.68	1	0.75	0.69
		5	6	0.83	0.74	2	0.80	0.73
		6	3	0.52	0.55	1	0.50	0.56
		7	3	0.54	0.62	1	0.51	0.63
		8	3	0.66	0.72	1	0.64	0.73
		9	3	0.65	0.66	1	0.63	0.68
		10	6	0.62	0.86	2	0.56	0.85
		11	3	0.74	0.72	1	0.72	0.73
		12	3	0.29	0.32	1	0.29	0.35
		13	3	0.45	0.52	1	0.44	0.54
		14	3	0.69	0.67	1	0.67	0.69
		15	6	0.79	0.77	2	0.76	0.77
		16	3	0.50	0.53	1	0.47	0.52
		17	3	0.38	0.50	1	0.36	0.53
		18	3	0.67	0.65	1	0.66	0.67
		19	3	0.31	0.21	1	0.29	0.21
		20	6	0.57	0.88	2	0.44	0.83
		21	3	0.38	0.36	1	0.35	0.38
		22	3	0.42	0.39	1	0.41	0.40
		23	3	0.60	0.52	1	0.59	0.53
		24	3	0.41	0.43	1	0.40	0.43
		25	6	0.56	0.85	2	0.41	0.79
		26	3	0.21	0.27	1	0.20	0.28
		27	3	0.62	0.59	1	0.61	0.61
		28	3	0.49	0.59	1	0.47	0.59
		29	3	0.53	0.46	1	0.50	0.48
		30	6	0.67	0.84	2	0.63	0.84

Table 27
Writing Item Level Statistics With and Without Level of Independence (continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Points	Difficulty	Correlation	Points	Difficulty	Correlation
WR	8	1	3	0.70	0.67	1	0.68	0.67
		2	3	0.71	0.69	1	0.70	0.71
		3	3	0.74	0.76	1	0.72	0.75
		4	3	0.77	0.70	1	0.75	0.70
		5	6	0.83	0.74	2	0.82	0.73
		6	3	0.61	0.69	1	0.60	0.71
		7	3	0.73	0.61	1	0.72	0.61
		8	3	0.66	0.70	1	0.65	0.69
		9	3	0.63	0.69	1	0.62	0.69
		10	6	0.61	0.85	2	0.54	0.83
		11	3	0.40	0.36	1	0.38	0.38
		12	3	0.38	0.29	1	0.37	0.31
		13	3	0.31	0.24	1	0.30	0.25
		14	3	0.73	0.71	1	0.72	0.69
		15	6	0.81	0.75	2	0.79	0.75
		16	3	0.36	0.41	1	0.35	0.42
		17	3	0.37	0.41	1	0.36	0.42
		18	3	0.35	0.36	1	0.33	0.39
		19	3	0.27	0.18	1	0.25	0.20
		20	6	0.63	0.88	2	0.49	0.83
		21	3	0.32	0.33	1	0.31	0.33
		22	3	0.31	0.39	1	0.30	0.39
		23	3	0.43	0.52	1	0.42	0.53
		24	3	0.64	0.68	1	0.63	0.67
		25	6	0.62	0.84	2	0.47	0.79
		26	3	0.43	0.44	1	0.42	0.45
		27	3	0.30	0.26	1	0.29	0.27
		28	3	0.59	0.59	1	0.58	0.61
		29	3	0.45	0.49	1	0.44	0.50
		30	6	0.70	0.85	2	0.64	0.83

Table 27
Writing Item Level Statistics With and Without Level of Independence (continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Points	Difficulty	Correlation	Points	Difficulty	Correlation
WR	9	1	3	0.70	0.71	1	0.68	0.70
		2	3	0.73	0.59	1	0.71	0.61
		3	3	0.75	0.75	1	0.73	0.75
		4	3	0.78	0.71	1	0.77	0.72
		5	6	0.81	0.78	2	0.78	0.78
		6	3	0.55	0.46	1	0.53	0.47
		7	3	0.54	0.63	1	0.53	0.64
		8	3	0.43	0.46	1	0.41	0.49
		9	3	0.46	0.43	1	0.44	0.43
		10	6	0.68	0.87	2	0.63	0.85
		11	3	0.71	0.68	1	0.70	0.69
		12	3	0.68	0.74	1	0.66	0.74
		13	3	0.44	0.54	1	0.42	0.54
		14	3	0.48	0.59	1	0.46	0.62
		15	6	0.81	0.77	2	0.78	0.77
		16	3	0.40	0.37	1	0.38	0.39
		17	3	0.32	0.39	1	0.30	0.42
		18	3	0.53	0.63	1	0.51	0.64
		19	3	0.35	0.18	1	0.34	0.17
		20	6	0.63	0.87	2	0.50	0.81
		21	3	0.44	0.49	1	0.43	0.50
		22	3	0.43	0.45	1	0.42	0.45
		23	3	0.60	0.55	1	0.58	0.56
		24	6	0.62	0.85	2	0.46	0.78
		25	3	0.30	0.35	1	0.29	0.36
		26	3	0.30	0.30	1	0.29	0.31
		27	3	0.50	0.57	1	0.49	0.58
		28	3	0.43	0.39	1	0.42	0.41
		29	6	0.70	0.82	2	0.64	0.82

Table 27
Writing Item Level Statistics With and Without Level of Independence (continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Points	Difficulty	Correlation	Points	Difficulty	Correlation
WR	10	1	3	0.71	0.69	1	0.68	0.68
		2	3	0.54	0.58	1	0.52	0.59
		3	3	0.77	0.70	1	0.75	0.68
		4	3	0.77	0.65	1	0.75	0.66
		5	6	0.83	0.77	2	0.80	0.76
		6	3	0.63	0.61	1	0.62	0.63
		7	3	0.59	0.58	1	0.57	0.59
		8	3	0.47	0.57	1	0.46	0.56
		9	3	0.49	0.51	1	0.47	0.54
		10	6	0.66	0.86	2	0.61	0.84
		11	3	0.53	0.59	1	0.52	0.59
		12	3	0.26	0.29	1	0.24	0.30
		13	3	0.28	0.32	1	0.26	0.31
		14	3	0.49	0.46	1	0.47	0.47
		15	6	0.78	0.70	2	0.75	0.68
		16	3	0.38	0.38	1	0.36	0.38
		17	3	0.56	0.54	1	0.53	0.54
		18	3	0.51	0.37	1	0.49	0.38
		19	3	0.41	0.37	1	0.39	0.35
		20	6	0.64	0.85	2	0.50	0.81
		21	3	0.29	0.26	1	0.28	0.25
		22	3	0.46	0.32	1	0.44	0.32
		23	3	0.53	0.64	1	0.52	0.66
		24	3	0.49	0.50	1	0.48	0.50
		25	6	0.63	0.83	2	0.46	0.76
		26	3	0.48	0.45	1	0.46	0.45
		27	3	0.17	0.14	1	0.16	0.16
		28	3	0.63	0.62	1	0.61	0.60
		29	3	0.45	0.41	1	0.43	0.41
		30	6	0.72	0.82	2	0.64	0.80

Table 28
Mathematics Item Level Statistics With and Without Level of Independence

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
MA	3	1	3	0.87	0.62	1	0.84	0.58
		2	6	0.78	0.72	2	0.70	0.72
		3	3	0.63	0.71	1	0.57	0.72
		4	6	0.58	0.70	2	0.46	0.68
		5	6	0.76	0.77	2	0.71	0.78
		6	3	0.70	0.68	1	0.66	0.67
		7	3	0.81	0.59	1	0.79	0.59
		8	3	0.44	0.47	1	0.42	0.49
		9	6	0.69	0.60	2	0.60	0.60
		10	3	0.61	0.61	1	0.56	0.64
		11	3	0.53	0.53	1	0.49	0.56
		12	6	0.53	0.56	2	0.33	0.49
		13	6	0.62	0.76	2	0.52	0.74
		14	3	0.50	0.51	1	0.47	0.53
		15	3	0.67	0.71	1	0.61	0.69
		16	3	0.37	0.57	1	0.32	0.56
		17	6	0.61	0.80	2	0.54	0.79
		18	3	0.88	0.60	1	0.86	0.59
		19	3	0.79	0.54	1	0.77	0.53
		20	3	0.66	0.62	1	0.63	0.61
		21	3	0.73	0.68	1	0.69	0.68
		22	3	0.37	0.39	1	0.29	0.35
		23	6	0.86	0.65	2	0.79	0.60
		24	6	0.49	0.59	2	0.32	0.55
		25	3	0.46	0.40	1	0.41	0.42
		26	6	0.56	0.49	2	0.32	0.43
		27	3	0.49	0.52	1	0.46	0.54
		28	3	0.64	0.64	1	0.60	0.66
		29	3	0.48	0.69	1	0.45	0.68
		30	3	0.42	0.50	1	0.37	0.50
		31	3	0.58	0.67	1	0.53	0.66
		32	3	0.69	0.66	1	0.64	0.63

Table 28
Mathematics Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
		1	3	0.87	0.66	1	0.85	0.63
		2	6	0.77	0.75	2	0.69	0.75
		3	6	0.79	0.80	2	0.75	0.81
		4	6	0.66	0.70	2	0.55	0.67
		5	3	0.57	0.60	1	0.52	0.63
		6	3	0.72	0.64	1	0.67	0.65
		7	3	0.78	0.65	1	0.77	0.66
		8	3	0.59	0.58	1	0.56	0.62
		9	6	0.62	0.64	2	0.52	0.65
		10	3	0.70	0.69	1	0.68	0.70
		11	3	0.51	0.49	1	0.49	0.52
		12	6	0.51	0.60	2	0.38	0.55
		13	3	0.70	0.69	1	0.67	0.69
		14	3	0.58	0.46	1	0.54	0.48
		15	3	0.69	0.78	1	0.67	0.76
MA	4	16	6	0.52	0.60	2	0.45	0.59
		17	3	0.77	0.66	1	0.75	0.65
		18	6	0.85	0.72	2	0.80	0.69
		19	6	0.68	0.72	2	0.60	0.68
		20	6	0.53	0.74	2	0.40	0.68
		21	3	0.64	0.62	1	0.60	0.64
		22	3	0.77	0.70	1	0.74	0.69
		23	3	0.12	0.25	1	0.09	0.26
		24	3	0.70	0.58	1	0.68	0.58
		25	3	0.64	0.61	1	0.61	0.63
		26	6	0.57	0.66	2	0.39	0.60
		27	3	0.49	0.56	1	0.46	0.57
		28	6	0.37	0.63	2	0.29	0.61
		29	3	0.64	0.77	1	0.62	0.77
		30	3	0.57	0.61	1	0.54	0.62
		31	3	0.61	0.71	1	0.58	0.70
		32	3	0.38	0.59	1	0.34	0.58

Table 28
Mathematics Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
		1	3	0.81	0.71	1	0.79	0.68
		2	3	0.67	0.66	1	0.63	0.69
		3	6	0.59	0.68	2	0.45	0.68
		4	6	0.72	0.70	2	0.63	0.74
		5	6	0.53	0.66	2	0.41	0.62
		6	6	0.41	0.59	2	0.31	0.58
		7	3	0.78	0.66	1	0.77	0.64
		8	3	0.51	0.72	1	0.49	0.72
		9	6	0.77	0.76	2	0.72	0.77
		10	3	0.56	0.56	1	0.54	0.58
		11	3	0.36	0.35	1	0.32	0.36
		12	6	0.67	0.77	2	0.61	0.76
		13	6	0.60	0.63	2	0.51	0.62
		14	3	0.51	0.52	1	0.48	0.55
		15	3	0.59	0.63	1	0.57	0.64
		16	3	0.33	0.42	1	0.29	0.40
		17	6	0.42	0.53	2	0.28	0.53
MA	5	18	6	0.34	0.57	2	0.29	0.55
		19	3	0.64	0.71	1	0.60	0.72
		20	3	0.46	0.54	1	0.43	0.56
		21	3	0.62	0.59	1	0.59	0.60
		22	6	0.84	0.71	2	0.79	0.70
		23	6	0.73	0.77	2	0.64	0.76
		24	3	0.35	0.61	1	0.30	0.60
		25	6	0.52	0.76	2	0.42	0.73
		26	6	0.51	0.63	2	0.35	0.56
		27	6	0.45	0.56	2	0.32	0.57
		28	6	0.29	0.54	2	0.22	0.51
		29	6	0.47	0.59	2	0.36	0.57
		30	3	0.56	0.46	1	0.54	0.48
		31	6	0.75	0.65	2	0.70	0.64
		32	3	0.65	0.70	1	0.62	0.70
		33	3	0.55	0.51	1	0.52	0.52
		34	3	0.58	0.73	1	0.56	0.74
		35	3	0.47	0.57	1	0.44	0.56

Table 28
Mathematics Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
MA	5	36	3	0.64	0.47	1	0.61	0.45
		37	3	0.77	0.68	1	0.76	0.67
		38	3	0.61	0.69	1	0.56	0.68
		39	3	0.33	0.40	1	0.30	0.42
		40	3	0.37	0.62	1	0.34	0.62

Table 28
Mathematics Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
		1	6	0.65	0.71	2	0.51	0.68
		2	6	0.71	0.74	2	0.63	0.76
		3	6	0.81	0.79	2	0.74	0.80
		4	6	0.59	0.68	2	0.46	0.66
		5	3	0.56	0.58	1	0.54	0.60
		6	6	0.69	0.76	2	0.61	0.74
		7	3	0.49	0.54	1	0.44	0.55
		8	3	0.81	0.59	1	0.79	0.56
		9	3	0.62	0.64	1	0.60	0.64
		10	3	0.47	0.53	1	0.45	0.54
		11	3	0.43	0.48	1	0.37	0.47
		12	6	0.59	0.72	2	0.41	0.64
		13	3	0.47	0.50	1	0.45	0.51
		14	3	0.60	0.57	1	0.56	0.54
		15	6	0.63	0.69	2	0.53	0.68
		16	3	0.60	0.62	1	0.57	0.62
MA	6	17	3	0.36	0.59	1	0.30	0.59
		18	3	0.47	0.45	1	0.44	0.44
		19	6	0.75	0.72	2	0.65	0.68
		20	6	0.47	0.75	2	0.37	0.70
		21	3	0.82	0.62	1	0.81	0.58
		22	3	0.32	0.23	1	0.31	0.24
		23	3	0.58	0.43	1	0.55	0.44
		24	3	0.78	0.67	1	0.77	0.66
		25	3	0.73	0.73	1	0.72	0.73
		26	3	0.27	0.15	1	0.27	0.17
		27	3	0.67	0.58	1	0.66	0.58
		28	3	0.55	0.53	1	0.54	0.52
		29	6	0.63	0.70	2	0.48	0.68
		30	6	0.33	0.59	2	0.25	0.56
		31	6	0.58	0.70	2	0.47	0.66
		32	3	0.78	0.68	1	0.76	0.66
		33	3	0.59	0.67	1	0.56	0.68
		34	3	0.29	0.53	1	0.24	0.53

Table 28
Mathematics Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
		1	6	0.62	0.71	2	0.42	0.67
		2	6	0.72	0.69	2	0.63	0.74
		3	6	0.80	0.76	2	0.73	0.77
		4	6	0.63	0.71	2	0.51	0.69
		5	3	0.52	0.50	1	0.47	0.51
		6	6	0.70	0.76	2	0.61	0.76
		7	3	0.44	0.56	1	0.42	0.57
		8	3	0.34	0.40	1	0.30	0.42
		9	3	0.51	0.52	1	0.49	0.53
		10	3	0.43	0.48	1	0.42	0.50
		11	3	0.28	0.34	1	0.25	0.36
		12	3	0.36	0.51	1	0.34	0.52
		13	3	0.55	0.61	1	0.54	0.63
		14	3	0.27	0.33	1	0.25	0.34
		15	3	0.51	0.52	1	0.48	0.52
		16	6	0.46	0.72	2	0.38	0.71
MA	7	17	6	0.77	0.71	2	0.69	0.69
		18	3	0.74	0.69	1	0.71	0.68
		19	3	0.33	0.46	1	0.30	0.47
		20	6	0.47	0.63	2	0.35	0.58
		21	3	0.54	0.49	1	0.52	0.50
		22	3	0.73	0.64	1	0.72	0.63
		23	3	0.65	0.64	1	0.63	0.65
		24	3	0.36	0.35	1	0.34	0.36
		25	3	0.59	0.57	1	0.57	0.59
		26	6	0.60	0.71	2	0.45	0.65
		27	6	0.64	0.73	2	0.51	0.70
		28	3	0.53	0.56	1	0.50	0.58
		29	6	0.40	0.70	2	0.33	0.68
		30	3	0.13	0.43	1	0.09	0.39
		31	3	0.53	0.61	1	0.50	0.60
		32	3	0.39	0.40	1	0.36	0.43
		33	3	0.46	0.50	1	0.43	0.52

Table 28
Mathematics Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
		1	6	0.62	0.65	2	0.43	0.60
		2	6	0.72	0.68	2	0.62	0.73
		3	6	0.61	0.72	2	0.50	0.72
		4	6	0.48	0.68	2	0.41	0.65
		5	3	0.45	0.36	1	0.41	0.40
		6	6	0.73	0.73	2	0.60	0.76
		7	6	0.60	0.69	2	0.49	0.64
		8	3	0.58	0.45	1	0.56	0.43
		9	3	0.34	0.34	1	0.32	0.35
		10	3	0.51	0.60	1	0.49	0.60
		11	3	0.38	0.30	1	0.37	0.31
		12	3	0.51	0.34	1	0.47	0.36
		13	3	0.34	0.39	1	0.33	0.38
		14	3	0.34	0.44	1	0.32	0.46
		15	3	0.46	0.67	1	0.42	0.69
		16	3	0.49	0.65	1	0.44	0.65
		17	3	0.67	0.55	1	0.61	0.50
MA	8	18	6	0.58	0.80	2	0.49	0.77
		19	3	0.50	0.65	1	0.47	0.65
		20	3	0.65	0.72	1	0.61	0.71
		21	6	0.74	0.73	2	0.67	0.69
		22	3	0.78	0.60	1	0.76	0.58
		23	3	0.81	0.53	1	0.79	0.52
		24	3	0.55	0.59	1	0.53	0.58
		25	3	0.46	0.66	1	0.41	0.66
		26	3	0.76	0.65	1	0.75	0.63
		27	3	0.52	0.57	1	0.51	0.56
		28	3	0.57	0.54	1	0.52	0.57
		29	6	0.56	0.64	2	0.40	0.60
		30	6	0.62	0.66	2	0.46	0.58
		31	6	0.45	0.70	2	0.37	0.67
		32	3	0.23	0.55	1	0.18	0.52
		33	3	0.25	0.08	1	0.22	0.05
		34	3	0.38	0.29	1	0.36	0.28
		35	3	0.63	0.67	1	0.61	0.66

Table 28
Mathematics Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
MA	8	36	3	0.58	0.65	1	0.55	0.63
		37	3	0.31	0.34	1	0.29	0.35
		38	3	0.49	0.50	1	0.46	0.50

Table 28
Mathematics Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
		1	6	0.70	0.76	2	0.58	0.72
		2	6	0.72	0.75	2	0.64	0.77
		3	6	0.60	0.76	2	0.50	0.73
		4	3	0.50	0.43	1	0.47	0.47
		5	6	0.73	0.74	2	0.62	0.77
		6	6	0.44	0.63	2	0.32	0.57
		7	3	0.63	0.66	1	0.60	0.67
		8	3	0.54	0.57	1	0.53	0.57
		9	3	0.43	0.45	1	0.42	0.46
		10	3	0.46	0.36	1	0.44	0.36
		11	3	0.32	0.33	1	0.30	0.34
		12	3	0.31	0.38	1	0.30	0.39
		13	6	0.56	0.79	2	0.42	0.74
		14	3	0.37	0.64	1	0.34	0.64
		15	6	0.57	0.80	2	0.49	0.77
		16	3	0.45	0.43	1	0.39	0.37
		17	3	0.35	0.58	1	0.30	0.59
MA	9	18	3	0.18	0.20	1	0.15	0.21
		19	3	0.36	0.54	1	0.32	0.55
		20	3	0.76	0.57	1	0.72	0.54
		21	3	0.27	0.24	1	0.25	0.23
		22	3	0.39	0.33	1	0.35	0.30
		23	3	0.66	0.62	1	0.64	0.63
		24	3	0.66	0.46	1	0.63	0.45
		25	6	0.55	0.62	2	0.44	0.59
		26	3	0.66	0.63	1	0.64	0.62
		27	3	0.53	0.64	1	0.50	0.65
		28	6	0.61	0.71	2	0.48	0.68
		29	6	0.47	0.74	2	0.38	0.71
		30	3	0.23	0.52	1	0.17	0.46
		31	3	0.28	0.27	1	0.25	0.24
		32	3	0.26	0.25	1	0.23	0.24
		33	3	0.37	0.38	1	0.34	0.38
		34	3	0.48	0.54	1	0.47	0.53
		35	3	0.22	0.09	1	0.20	0.11

Table 28
Mathematics Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
MA	9	36	3	0.39	0.34	1	0.36	0.33
		37	3	0.52	0.59	1	0.49	0.59
		38	3	0.34	0.41	1	0.31	0.43

Table 28
Mathematics Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
		1	6	0.65	0.73	2	0.53	0.69
		2	6	0.74	0.68	2	0.64	0.70
		3	6	0.60	0.71	2	0.51	0.70
		4	6	0.54	0.62	2	0.44	0.63
		5	3	0.33	0.50	1	0.28	0.50
		6	6	0.74	0.72	2	0.63	0.73
		7	3	0.68	0.64	1	0.66	0.62
		8	3	0.52	0.47	1	0.51	0.48
		9	3	0.42	0.43	1	0.39	0.44
		10	3	0.33	0.31	1	0.30	0.30
		11	3	0.20	0.10	1	0.18	0.05
		12	3	0.28	0.39	1	0.26	0.37
		13	3	0.33	0.21	1	0.30	0.18
		14	3	0.31	0.30	1	0.28	0.28
		15	6	0.66	0.72	2	0.55	0.71
		16	3	0.66	0.66	1	0.61	0.63
		17	3	0.71	0.59	1	0.67	0.60
MA	10	18	3	0.20	0.37	1	0.16	0.32
		19	6	0.46	0.71	2	0.35	0.66
		20	3	0.37	0.42	1	0.32	0.39
		21	3	0.31	0.53	1	0.28	0.52
		22	3	0.37	0.29	1	0.35	0.25
		23	3	0.61	0.58	1	0.59	0.58
		24	6	0.81	0.71	2	0.75	0.69
		25	3	0.24	0.45	1	0.21	0.44
		26	3	0.58	0.72	1	0.54	0.72
		27	3	0.62	0.63	1	0.60	0.64
		28	6	0.58	0.59	2	0.43	0.55
		29	6	0.59	0.63	2	0.39	0.60
		30	6	0.41	0.70	2	0.29	0.64
		31	3	0.09	0.37	1	0.06	0.31
		32	3	0.31	0.23	1	0.27	0.20
		33	3	0.19	0.12	1	0.17	0.11
		34	3	0.19	0.27	1	0.16	0.25
		35	3	0.35	0.54	1	0.32	0.54

Table 28
Mathematics Item Level Statistics With and Without Level of Independence
(continued)

Content	Grade	Item	With Level of Independence			Without Level of Independence		
			Max Score Points	Item Difficulty	Item-Test Correlation	Max Score Points	Item Difficulty	Item-Test Correlation
		36	6	0.39	0.61	2	0.27	0.57
		37	3	0.47	0.58	1	0.45	0.59
MA	10	38	3	0.58	0.60	1	0.57	0.59
		39	3	0.57	0.59	1	0.55	0.58
		40	3	0.30	0.37	1	0.28	0.36

Table 29
Summary of *P*-values and Point-Biserial by Grade and Content Area Including Level of Independence

Content	Grade	<i>P</i> -value			Point Biserial		
		High	Mean	Low	High	Mean	Low
RD	3	0.87	0.54	0.23	0.67	0.51	0.24
	4	0.84	0.54	0.24	0.69	0.54	0.34
	5	0.85	0.56	0.23	0.73	0.56	0.21
	6	0.87	0.61	0.25	0.71	0.57	0.17
	7	0.85	0.53	0.23	0.70	0.52	0.23
	8	0.84	0.52	0.31	0.69	0.53	0.33
	9	0.85	0.55	0.29	0.73	0.56	0.27
	10	0.75	0.50	0.26	0.69	0.50	0.30
WR	3	0.81	0.51	0.27	0.81	0.54	0.25
	4	0.79	0.50	0.18	0.83	0.55	0.17
	5	0.81	0.55	0.22	0.86	0.58	0.28
	6	0.83	0.59	0.35	0.84	0.58	0.20
	7	0.83	0.56	0.21	0.88	0.59	0.21
	8	0.83	0.55	0.27	0.88	0.57	0.18
	9	0.81	0.56	0.30	0.87	0.58	0.18
	10	0.83	0.54	0.17	0.86	0.55	0.14
MA	3	0.88	0.62	0.37	0.80	0.61	0.39
	4	0.87	0.62	0.12	0.80	0.64	0.25
	5	0.84	0.56	0.29	0.77	0.62	0.35
	6	0.82	0.58	0.27	0.79	0.60	0.15
	7	0.80	0.52	0.13	0.76	0.57	0.33
	8	0.81	0.53	0.23	0.80	0.56	0.08
	9	0.76	0.47	0.18	0.80	0.52	0.09
	10	0.81	0.46	0.09	0.73	0.51	0.10

Table 30
Summary of *P*-values and Point-Biserial by Grade and Content Area Without Including Level of Independence

Content	Grade	<i>P</i> -value			Point Biserial		
		High	Mean	Low	High	Mean	Low
RD	3	0.85	0.51	0.21	0.70	0.53	0.26
	4	0.83	0.52	0.21	0.69	0.55	0.34
	5	0.84	0.53	0.21	0.73	0.57	0.23
	6	0.85	0.60	0.23	0.72	0.58	0.19
	7	0.84	0.52	0.22	0.72	0.53	0.24
	8	0.83	0.51	0.29	0.69	0.53	0.33
	9	0.84	0.53	0.26	0.74	0.57	0.27
	10	0.73	0.48	0.24	0.69	0.50	0.31
WR	3	0.80	0.46	0.24	0.77	0.54	0.25
	4	0.75	0.47	0.16	0.81	0.56	0.19
	5	0.77	0.51	0.20	0.82	0.58	0.29
	6	0.80	0.56	0.33	0.82	0.58	0.21
	7	0.80	0.53	0.20	0.85	0.60	0.21
	8	0.82	0.52	0.25	0.83	0.57	0.20
	9	0.78	0.53	0.29	0.85	0.59	0.17
	10	0.80	0.51	0.16	0.84	0.54	0.16
MA	3	0.86	0.55	0.29	0.79	0.60	0.35
	4	0.85	0.57	0.09	0.81	0.63	0.26
	5	0.79	0.50	0.22	0.77	0.61	0.36
	6	0.81	0.52	0.24	0.80	0.59	0.17
	7	0.73	0.46	0.09	0.77	0.57	0.34
	8	0.79	0.48	0.18	0.77	0.55	0.05
	9	0.72	0.42	0.15	0.77	0.51	0.11
	10	0.75	0.40	0.06	0.73	0.49	0.05

Table 31
Reading Expanded Benchmark Level Statistics, Ordered by Mean Difficulty (*P*-value)

Content	Expanded Grade	Benchmark	Critical Concept	<i>P</i> -value				Point Biserial			
				High	Mean	Low	SD	High	Mean	Low	SD
RD	3	1.2	Demonstrate understanding of symbolic representation	0.87	0.72	0.42	0.18	0.65	0.61	0.57	0.04
		1.4	Use a variety of strategies to make meaning of text	0.76	0.68	0.59	0.07	0.66	0.61	0.51	0.06
		3.2	Understand informational text	0.70	0.59	0.42	0.13	0.64	0.46	0.28	0.13
		1.3	Demonstrate understanding of beginning principles of phonics	0.80	0.58	0.26	0.27	0.67	0.51	0.24	0.20
		2.1	Make connections to reading passages	0.56	0.47	0.24	0.13	0.64	0.49	0.31	0.12
		3.1	Demonstrate knowledge that various texts have different purposes	0.58	0.40	0.23	0.15	0.59	0.45	0.26	0.14
		2.2	Identify elements of literature (character, plot, setting)	0.46	0.38	0.34	0.05	0.63	0.46	0.30	0.12
	4	1.2	Demonstrate understanding of symbolic representation	0.84	0.73	0.60	0.09	0.69	0.63	0.57	0.05
		1.3	Demonstrate understanding of beginning principles of phonics	0.84	0.70	0.28	0.23	0.67	0.59	0.34	0.14
		1.4	Use a variety of strategies to make meaning of text	0.72	0.53	0.24	0.20	0.66	0.56	0.35	0.13
		2.1	Make connections to reading passages	0.59	0.50	0.39	0.09	0.57	0.52	0.44	0.05
		3.2	Understand informational text	0.64	0.49	0.28	0.14	0.63	0.50	0.35	0.14
		3.1	Demonstrate knowledge that various texts have different purposes	0.59	0.43	0.32	0.11	0.61	0.50	0.35	0.10
		2.2	Identify elements of literature (character, plot, setting)	0.53	0.41	0.29	0.10	0.55	0.47	0.39	0.06

Table 31
Reading Expanded Benchmark Level Statistics, Ordered by Mean Difficulty (*P*-value) (continued)

Content	Expanded Grade	Benchmark	Critical Concept	<i>P</i> -value				Point Biserial			
				High	Mean	Low	SD	High	Mean	Low	SD
RD	5	1.2	Demonstrate understanding of symbolic representation	0.85	0.70	0.53	0.14	0.64	0.60	0.55	0.04
		1.4	Use a variety of strategies to make meaning of text	0.74	0.61	0.46	0.13	0.73	0.64	0.50	0.10
		2.1	Make connections to reading passages	0.75	0.56	0.36	0.18	0.69	0.58	0.41	0.12
		1.3	Demonstrate understanding of beginning principles of phonics	0.81	0.53	0.23	0.24	0.66	0.50	0.21	0.19
		3.2	Understand informational text	0.65	0.52	0.45	0.08	0.63	0.53	0.41	0.10
		2.2	Identify elements of literature (character, plot, setting)	0.61	0.50	0.40	0.10	0.71	0.58	0.52	0.08
		3.1	Demonstrate knowledge that various texts have different purposes	0.68	0.47	0.36	0.12	0.70	0.50	0.25	0.19
	6	1.3	Demonstrate understanding of beginning principles of phonics	0.87	0.74	0.44	0.18	0.70	0.60	0.42	0.12
		1.2	Demonstrate understanding of symbolic representation	0.78	0.69	0.58	0.08	0.68	0.64	0.57	0.05
		1.4	Use a variety of strategies to make meaning of text	0.82	0.68	0.47	0.18	0.71	0.61	0.54	0.08
		2.1	Make connections to reading passages	0.74	0.60	0.51	0.10	0.66	0.61	0.55	0.04
		3.2	Understand informational text	0.77	0.54	0.34	0.20	0.61	0.46	0.17	0.17
		2.2	Identify elements of literature (character, plot, setting)	0.71	0.53	0.40	0.12	0.66	0.57	0.47	0.08
		3.1	Demonstrate knowledge that various texts have different purposes	0.84	0.49	0.25	0.29	0.64	0.49	0.34	0.13

Table 31
Reading Expanded Benchmark Level Statistics, Ordered by Mean Difficulty (*P*-value) (continued)

Content	Expanded Grade	Expanded Benchmark	Critical Concept	<i>P</i> -value				Point Biserial			
				High	Mean	Low	SD	High	Mean	Low	SD
RD	7	1.3	Demonstrate understanding of beginning principles of phonics	0.85	0.73	0.46	0.17	0.67	0.61	0.43	0.10
		1.2	Demonstrate understanding of symbolic representation	0.81	0.71	0.62	0.09	0.69	0.65	0.60	0.04
		1.4	Use a variety of strategies to make meaning of text	0.80	0.60	0.34	0.20	0.70	0.58	0.42	0.11
		3.2	Understand informational text	0.62	0.48	0.35	0.11	0.60	0.48	0.35	0.09
		2.1	Make connections to reading passages	0.71	0.45	0.23	0.20	0.66	0.49	0.30	0.15
		2.2	Identify elements of literature (character, plot, setting)	0.56	0.43	0.27	0.10	0.64	0.51	0.38	0.12
		3.1	Demonstrate knowledge that various texts have different purposes	0.61	0.36	0.25	0.15	0.46	0.32	0.23	0.09
	8	1.3	Demonstrate understanding of beginning principles of phonics	0.84	0.67	0.50	0.16	0.63	0.57	0.48	0.07
		1.2	Demonstrate understanding of symbolic representation	0.75	0.63	0.43	0.14	0.68	0.60	0.53	0.07
		1.4	Use a variety of strategies to make meaning of text	0.75	0.51	0.31	0.21	0.69	0.55	0.38	0.14
		3.2	Understand informational text	0.63	0.49	0.35	0.12	0.58	0.50	0.34	0.10
		3.1	Demonstrate knowledge that various texts have different purposes	0.62	0.48	0.37	0.09	0.63	0.52	0.35	0.10
		2.1	Make connections to reading passages	0.54	0.47	0.33	0.08	0.56	0.47	0.33	0.10
		2.2	Identify elements of literature (character, plot, setting)	0.52	0.43	0.35	0.07	0.53	0.47	0.34	0.08

Table 31
Reading Expanded Benchmark Level Statistics, Ordered by Mean Difficulty (*P*-value) (continued)

Content	Expanded Grade	Expanded Benchmark	Critical Concept	<i>P</i> -value				Point Biserial			
				High	Mean	Low	SD	High	Mean	Low	SD
RD	9	1.3	Demonstrate understanding of beginning principles of phonics	0.85	0.69	0.48	0.15	0.63	0.60	0.52	0.05
		1.2	Demonstrate understanding of symbolic representation	0.76	0.65	0.44	0.15	0.68	0.61	0.50	0.08
		1.4	Use a variety of strategies to make meaning of text	0.77	0.60	0.29	0.20	0.68	0.59	0.40	0.12
		3.2	Understand informational text	0.66	0.54	0.46	0.08	0.63	0.52	0.41	0.09
		2.2	Identify elements of literature (character, plot, setting)	0.59	0.50	0.31	0.11	0.73	0.54	0.27	0.17
		2.1	Make connections to reading passages	0.50	0.46	0.41	0.04	0.61	0.53	0.44	0.08
		3.1	Demonstrate knowledge that various texts have different purposes	0.52	0.44	0.29	0.10	0.64	0.52	0.37	0.12
	10	1.3	Demonstrate understanding of beginning principles of phonics	0.69	0.55	0.38	0.11	0.61	0.47	0.37	0.09
		1.2	Demonstrate understanding of symbolic representation	0.75	0.54	0.31	0.17	0.67	0.53	0.38	0.13
		2.2	Identify elements of literature (character, plot, setting)	0.70	0.52	0.28	0.18	0.66	0.55	0.34	0.15
		1.4	Use a variety of strategies to make meaning of text	0.71	0.52	0.41	0.13	0.62	0.46	0.30	0.17
		3.2	Understand informational text	0.59	0.49	0.43	0.07	0.61	0.51	0.41	0.07
		2.1	Make connections to reading passages	0.59	0.48	0.38	0.08	0.69	0.55	0.40	0.11
		3.1	Demonstrate knowledge that various texts have different purposes	0.53	0.40	0.26	0.11	0.53	0.41	0.34	0.08

Table 32
Writing Expanded Benchmark Level Statistics, Ordered by Mean Difficulty (*P*-value)

Content	Grade	Expanded Benchmark	Critical Concept	<i>P</i> -value				Point Biserial			
				High	Mean	Low	SD	High	Mean	Low	SD
WR	3	1.1	Demonstrate an understanding that writing communicates a message	0.77	0.62	0.30	0.19	0.73	0.58	0.25	0.19
		1.2	Organize writing to create a draft document	0.81	0.60	0.47	0.17	0.80	0.61	0.51	0.11
		2.1	Use systematic conventions to make written product understandable by others	0.73	0.56	0.41	0.14	0.74	0.60	0.47	0.10
		2.3	Edit a written product using legible handwriting/word processor for publication	0.68	0.42	0.28	0.14	0.78	0.45	0.26	0.19
		2.2	Apply elements of writing through appropriate word usage	0.49	0.38	0.27	0.08	0.81	0.50	0.26	0.25
	4	2.1	Use systematic conventions to make written product understandable by others	0.74	0.58	0.26	0.18	0.78	0.61	0.41	0.14
		1.1	Demonstrate an understanding that writing communicates a message	0.79	0.56	0.32	0.20	0.75	0.57	0.34	0.16
		1.2	Organize writing to create a draft document	0.70	0.54	0.32	0.14	0.82	0.59	0.24	0.22
		2.3	Edit a written product using legible handwriting/word processor for publication	0.73	0.48	0.35	0.13	0.78	0.52	0.32	0.15
		2.2	Apply elements of writing through appropriate word usage	0.52	0.40	0.18	0.13	0.83	0.50	0.17	0.25
	5	1.1	Demonstrate an understanding that writing communicates a message	0.81	0.68	0.42	0.15	0.76	0.63	0.42	0.13
		2.1	Use systematic conventions to make written product understandable by others	0.77	0.62	0.33	0.16	0.77	0.61	0.39	0.14
		1.2	Organize writing to create a draft document	0.73	0.55	0.29	0.18	0.85	0.59	0.38	0.17
		2.3	Edit a written product using legible handwriting/word processor for publication	0.73	0.46	0.22	0.16	0.82	0.49	0.28	0.18
		2.2	Apply elements of writing through appropriate word usage	0.54	0.45	0.26	0.11	0.86	0.59	0.28	0.23

Table 32
Writing Expanded Benchmark Level Statistics, Ordered by Mean Difficulty (*P*-value) (continued)

Content	Grade	Expanded Benchmark	Critical Concept	<i>P</i> -value				Point Biserial			
				High	Mean	Low	SD	High	Mean	Low	SD
WR	6	1.1	Demonstrate an understanding that writing communicates a message	0.83	0.74	0.69	0.05	0.77	0.68	0.61	0.06
		2.1	Use systematic conventions to make written product understandable by others	0.78	0.67	0.49	0.13	0.78	0.61	0.40	0.15
		1.2	Organize writing to create a draft document	0.73	0.65	0.49	0.10	0.84	0.67	0.38	0.17
		2.3	Edit a written product using legible handwriting/word processor for publication	0.75	0.48	0.36	0.13	0.80	0.45	0.29	0.17
		2.2	Apply elements of writing through appropriate word usage	0.59	0.48	0.35	0.09	0.83	0.53	0.20	0.25
	7	1.1	Demonstrate an understanding that writing communicates a message	0.83	0.70	0.47	0.13	0.84	0.70	0.60	0.09
		1.2	Organize writing to create a draft document	0.66	0.60	0.52	0.06	0.86	0.68	0.55	0.12
		2.1	Use systematic conventions to make written product understandable by others	0.79	0.58	0.29	0.19	0.77	0.59	0.32	0.16
		2.3	Edit a written product using legible handwriting/word processor for publication	0.62	0.48	0.21	0.15	0.59	0.48	0.27	0.12
		2.2	Apply elements of writing through appropriate word usage	0.67	0.47	0.31	0.13	0.88	0.55	0.21	0.26
	8	1.1	Demonstrate an understanding that writing communicates a message	0.83	0.74	0.70	0.05	0.85	0.74	0.67	0.06
		1.2	Organize writing to create a draft document	0.73	0.65	0.61	0.05	0.85	0.71	0.61	0.09
		2.1	Use systematic conventions to make written product understandable by others	0.81	0.50	0.31	0.22	0.75	0.46	0.24	0.22
		2.3	Edit a written product using legible handwriting/word processor for publication	0.64	0.47	0.30	0.12	0.68	0.50	0.26	0.14
		2.2	Apply elements of writing through appropriate word usage	0.63	0.41	0.27	0.15	0.88	0.49	0.18	0.27

Table 32
Writing Expanded Benchmark Level Statistics, Ordered by Mean Difficulty (*P*-value) (continued)

Content	Grade	Expanded Benchmark	Critical Concept	<i>P</i> -value				Point Biserial			
				High	Mean	Low	SD	High	Mean	Low	SD
WR	9	1.1	Demonstrate an understanding that writing communicates a message	0.81	0.75	0.70	0.04	0.82	0.73	0.59	0.08
		2.1	Use systematic conventions to make written product understandable by others	0.81	0.59	0.40	0.17	0.77	0.61	0.37	0.15
		1.2	Organize writing to create a draft document	0.68	0.53	0.43	0.10	0.87	0.57	0.43	0.19
		2.2	Apply elements of writing through appropriate word usage	0.63	0.48	0.32	0.13	0.87	0.57	0.18	0.27
		2.3	Edit a written product using legible handwriting/word processor for publication	0.60	0.43	0.30	0.11	0.57	0.44	0.30	0.11
	10	1.1	Demonstrate an understanding that writing communicates a message	0.83	0.72	0.54	0.10	0.82	0.70	0.58	0.08
		1.2	Organize writing to create a draft document	0.66	0.57	0.47	0.08	0.86	0.63	0.51	0.13
		2.2	Apply elements of writing through appropriate word usage	0.64	0.50	0.29	0.12	0.85	0.51	0.26	0.24
		2.3	Edit a written product using legible handwriting/word processor for publication	0.63	0.46	0.17	0.16	0.64	0.46	0.14	0.18
		2.1	Use systematic conventions to make written product understandable by others	0.78	0.45	0.26	0.19	0.70	0.46	0.29	0.16

Table 33
Mathematics Expanded Benchmark Level Statistics, Ordered by Mean Difficulty (*P*-value)

Content	Grade	Expanded Benchmark	Critical Concept	<i>P</i> -value				Point Biserial			
				High	Mean	Low	SD	High	Mean	Low	SD
MA	3	4	Identifies, sorts, and matches geometric shapes	0.88	0.72	0.37	0.19	0.68	0.58	0.39	0.10
		1	Counts, represents quantities, reads and writes numbers	0.87	0.70	0.44	0.14	0.77	0.66	0.47	0.10
		2	Identifies, describes, and creates patterns to solve problems	0.69	0.59	0.53	0.08	0.61	0.57	0.53	0.04
		3	Displays and analyzes data	0.67	0.56	0.37	0.12	0.80	0.67	0.51	0.13
		6	Uses calculation strategies to compute problems	0.69	0.54	0.42	0.12	0.69	0.63	0.50	0.09
		5	Applies a variety of measurement skills	0.64	0.53	0.46	0.07	0.64	0.53	0.40	0.09
	4	1	Counts, represents quantities, reads and writes numbers	0.87	0.72	0.57	0.10	0.80	0.67	0.58	0.07
		4	Identifies, sorts, and matches geometric shapes	0.85	0.69	0.52	0.12	0.78	0.65	0.46	0.11
		2	Identifies, describes, and creates patterns to solve problems	0.70	0.59	0.51	0.09	0.69	0.61	0.49	0.09
		5	Applies a variety of measurement skills	0.70	0.55	0.37	0.13	0.66	0.61	0.56	0.04
		6	Uses calculation strategies to compute problems	0.64	0.55	0.38	0.12	0.77	0.67	0.59	0.09
		3	Displays and analyzes data	0.77	0.55	0.12	0.25	0.74	0.61	0.25	0.20
	5	4	Identifies, sorts, and matches geometric shapes	0.84	0.65	0.47	0.13	0.71	0.62	0.46	0.09
		1	Counts, represents quantities, reads and writes numbers	0.81	0.62	0.36	0.15	0.77	0.65	0.35	0.11
		3	Displays and analyzes data	0.73	0.54	0.35	0.15	0.77	0.68	0.54	0.10
		6	Uses calculation strategies to compute problems	0.77	0.52	0.33	0.21	0.69	0.60	0.40	0.14
		5	Applies a variety of measurement skills	0.64	0.50	0.29	0.11	0.73	0.57	0.47	0.09
		2	Identifies, describes, and creates patterns to solve problems	0.60	0.47	0.33	0.12	0.63	0.55	0.42	0.08

Table 33
Mathematics Expanded Benchmark Level Statistics, Ordered by Mean Difficulty (*P*-value) (continued)

Content	Grade	Expanded Benchmark	Critical Concept	<i>P</i> -value				Point Biserial			
				High	Mean	Low	SD	High	Mean	Low	SD
MA	6	1	Counts, represents quantities, reads and writes numbers	0.81	0.66	0.49	0.11	0.79	0.67	0.54	0.10
		4	Identifies, sorts, and matches geometric shapes	0.82	0.65	0.32	0.20	0.73	0.54	0.23	0.20
		3	Displays and analyzes data	0.75	0.57	0.36	0.14	0.75	0.66	0.57	0.08
		6	Uses calculation strategies to compute problems	0.78	0.53	0.29	0.21	0.68	0.58	0.45	0.11
		2	Identifies, describes, and creates patterns to solve problems	0.62	0.52	0.43	0.09	0.72	0.57	0.48	0.10
		5	Applies a variety of measurement skills	0.67	0.51	0.27	0.16	0.70	0.54	0.15	0.21
	7	1	Counts, represents quantities, reads and writes numbers	0.80	0.63	0.44	0.12	0.76	0.67	0.50	0.10
		4	Identifies, sorts, and matches geometric shapes	0.73	0.57	0.36	0.16	0.64	0.53	0.35	0.14
		3	Displays and analyzes data	0.77	0.56	0.33	0.19	0.72	0.64	0.46	0.11
		5	Applies a variety of measurement skills	0.64	0.48	0.13	0.19	0.73	0.62	0.43	0.12
		6	Uses calculation strategies to compute problems	0.53	0.43	0.34	0.08	0.61	0.48	0.40	0.10
		2	Identifies, describes, and creates patterns to solve problems	0.55	0.42	0.27	0.12	0.61	0.47	0.33	0.10
	8	4	Identifies, sorts, and matches geometric shapes	0.81	0.67	0.46	0.16	0.66	0.61	0.53	0.05
		3	Displays and analyzes data	0.74	0.61	0.49	0.10	0.80	0.68	0.55	0.09
		1	Counts, represents quantities, reads and writes numbers	0.73	0.60	0.45	0.10	0.73	0.62	0.36	0.13
		6	Uses calculation strategies to compute problems	0.63	0.47	0.31	0.14	0.67	0.50	0.34	0.16
		5	Applies a variety of measurement skills	0.62	0.45	0.23	0.15	0.70	0.50	0.08	0.21
		2	Identifies, describes, and creates patterns to solve problems	0.51	0.42	0.34	0.08	0.67	0.46	0.30	0.15

Table 33
Mathematics Expanded Benchmark Level Statistics, Ordered by Mean Difficulty (*P*-value) (continued)

Content	Grade	Expanded Benchmark	Critical Concept	<i>P</i> -value				Point Biserial			
				High	Mean	Low	SD	High	Mean	Low	SD
MA	9	1	Counts, represents quantities, reads and writes numbers	0.73	0.62	0.44	0.11	0.76	0.67	0.43	0.12
		4	Identifies, sorts, and matches geometric shapes	0.76	0.55	0.27	0.21	0.62	0.44	0.24	0.16
		5	Applies a variety of measurement skills	0.66	0.45	0.23	0.17	0.74	0.55	0.25	0.19
		3	Displays and analyzes data	0.57	0.41	0.18	0.15	0.80	0.56	0.20	0.23
		2	Identifies, describes, and creates patterns to solve problems	0.54	0.41	0.31	0.09	0.64	0.45	0.33	0.13
		6	Uses calculation strategies to compute problems	0.52	0.38	0.22	0.11	0.59	0.39	0.09	0.18
	10	1	Counts, represents quantities, reads and writes numbers	0.74	0.58	0.33	0.15	0.73	0.65	0.50	0.08
		3	Displays and analyzes data	0.71	0.51	0.20	0.20	0.72	0.58	0.37	0.15
		4	Identifies, sorts, and matches geometric shapes	0.81	0.47	0.24	0.24	0.71	0.51	0.29	0.16
		5	Applies a variety of measurement skills	0.62	0.42	0.09	0.20	0.72	0.50	0.12	0.23
		6	Uses calculation strategies to compute problems	0.58	0.41	0.19	0.16	0.60	0.49	0.27	0.14
		2	Identifies, describes, and creates patterns to solve problems	0.52	0.34	0.20	0.10	0.47	0.31	0.10	0.13

Table 34
Reading Grade 3 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	11	11	1.87%	1.87%
		1	1	12	0.17%	2.04%
		2	1	13	0.17%	2.21%
		3	0	13	0%	2.21%
		4	1	14	0.17%	2.38%
		5	1	15	0.17%	2.55%
		6	4	19	0.68%	3.23%
		7	2	21	0.34%	3.57%
		8	1	22	0.17%	3.74%
		9	3	25	0.51%	4.24%
		10	0	25	0%	4.24%
		11	2	27	0.34%	4.58%
		12	0	27	0.00%	4.58%
		13	2	29	0.34%	4.92%
		14	1	30	0.17%	5.09%
		15	4	34	0.68%	5.77%
RD	3	16	3	37	0.51%	6.28%
		17	1	38	0.17%	6.45%
		18	4	42	0.68%	7.13%
		19	5	47	0.85%	7.98%
		20	2	49	0.34%	8.32%
		21	4	53	0.68%	9.00%
		22	4	57	0.68%	9.68%
		23	1	58	0.17%	9.85%
		24	4	62	0.68%	10.53%
		25	3	65	0.51%	11.04%
		26	3	68	0.51%	11.54%
		27	4	72	0.68%	12.22%
		28	4	76	0.68%	12.90%
		29	4	80	0.68%	13.58%
		30	11	91	1.87%	15.45%
		31	3	94	0.51%	15.96%
		32	4	98	0.68%	16.64%
		33	9	107	1.53%	18.17%

Table 34
Reading Grade 3 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	3	110	0.51%	18.68%
		35	3	113	0.51%	19.19%
		36	13	126	2.21%	21.39%
		37	6	132	1.02%	22.41%
		38	5	137	0.85%	23.26%
		39	11	148	1.87%	25.13%
		40	4	152	0.68%	25.81%
		41	7	159	1.19%	26.99%
		42	13	172	2.21%	29.20%
		43	3	175	0.51%	29.71%
		44	3	178	0.51%	30.22%
		45	5	183	0.85%	31.07%
		46	3	186	0.51%	31.58%
		47	4	190	0.68%	32.26%
		48	17	207	2.89%	35.14%
		49	4	211	0.68%	35.82%
RD	3	50	6	217	1.02%	36.84%
		51	12	229	2.04%	38.88%
		52	5	234	0.85%	39.73%
		53	5	239	0.85%	40.58%
		54	19	258	3.23%	43.80%
		55	5	263	0.85%	44.65%
		56	5	268	0.85%	45.50%
		57	20	288	3.40%	48.90%
		58	0	288	0.00%	48.90%
		59	6	294	1.02%	49.92%
		60	13	307	2.21%	52.12%
		61	3	310	0.51%	52.63%
		62	2	312	0.34%	52.97%
		63	27	339	4.58%	57.56%
		64	4	343	0.68%	58.23%
		65	4	347	0.68%	58.91%
		66	21	368	3.57%	62.48%
		67	3	371	0.51%	62.99%

Table 34
Reading Grade 3 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	5	376	0.85%	63.84%
		69	21	397	3.57%	67.40%
		70	4	401	0.68%	68.08%
		71	6	407	1.02%	69.10%
		72	17	424	2.89%	71.99%
		73	2	426	0.34%	72.33%
		74	5	431	0.85%	73.17%
		75	23	454	3.90%	77.08%
		76	2	456	0.34%	77.42%
		77	8	464	1.36%	78.78%
		78	17	481	2.89%	81.66%
		79	0	481	0%	81.66%
		80	6	487	1.02%	82.68%
		81	10	497	1.70%	84.38%
		82	1	498	0.17%	84.55%
		83	1	499	0.17%	84.72%
RD	3	84	12	511	2.04%	86.76%
		85	1	512	0.17%	86.93%
		86	6	518	1.02%	87.95%
		87	9	527	1.53%	89.47%
		88	2	529	0.34%	89.81%
		89	3	532	0.51%	90.32%
		90	20	552	3.40%	93.72%
		91	0	552	0%	93.72%
		92	2	554	0.34%	94.06%
		93	11	565	1.87%	95.93%
		94	2	567	0.34%	96.26%
		95	2	569	0.34%	96.60%
		96	6	575	1.02%	97.62%
		97	0	575	0%	97.62%
		98	0	575	0%	97.62%
		99	9	584	1.53%	99.15%
		100	0	584	0%	99.15%
		101	1	585	0.17%	99.32%

Table 34
Reading Grade 3 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	4	589	0.68%	100%
RD	3	103	0	589	0%	100%
		104	0	589	0%	100%
		105	0	589	0%	100%

Table 35
Reading Grade 4 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	25	25	3.63%	3.63%
		1	3	28	0.44%	4.06%
		2	1	29	0.15%	4.21%
		3	0	29	0%	4.21%
		4	0	29	0%	4.21%
		5	2	31	0.29%	4.50%
		6	0	31	0%	4.50%
		7	0	31	0%	4.50%
		8	0	31	0%	4.50%
		9	1	32	0.15%	4.64%
		10	3	35	0.44%	5.08%
		11	2	37	0.29%	5.37%
		12	2	39	0.29%	5.66%
		13	1	40	0.15%	5.81%
		14	3	43	0.44%	6.24%
		15	5	48	0.73%	6.97%
RD	4	16	1	49	0.15%	7.11%
		17	2	51	0.29%	7.40%
		18	3	54	0.44%	7.84%
		19	3	57	0.44%	8.27%
		20	5	62	0.73%	9.00%
		21	2	64	0.29%	9.29%
		22	4	68	0.58%	9.87%
		23	0	68	0%	9.87%
		24	6	74	0.87%	10.74%
		25	3	77	0.44%	11.18%
		26	7	84	1.02%	12.19%
		27	11	95	1.60%	13.79%
		28	0	95	0%	13.79%
		29	8	103	1.16%	14.95%
		30	10	113	1.45%	16.40%
		31	1	114	0.15%	16.55%
		32	6	120	0.87%	17.42%
		33	12	132	1.74%	19.16%

Table 35
Reading Grade 4 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	3	135	0.44%	19.59%
		35	5	140	0.73%	20.32%
		36	16	156	2.32%	22.64%
		37	3	159	0.44%	23.08%
		38	4	163	0.58%	23.66%
		39	13	176	1.89%	25.54%
		40	4	180	0.58%	26.12%
		41	0	180	0%	26.12%
		42	13	193	1.89%	28.01%
		43	8	201	1.16%	29.17%
		44	3	204	0.44%	29.61%
		45	24	228	3.48%	33.09%
		46	3	231	0.44%	33.53%
		47	10	241	1.45%	34.98%
		48	16	257	2.32%	37.30%
		49	2	259	0.29%	37.59%
RD	4	50	9	268	1.31%	38.90%
		51	25	293	3.63%	42.53%
		52	1	294	0.15%	42.67%
		53	3	297	0.44%	43.11%
		54	14	311	2.03%	45.14%
		55	3	314	0.44%	45.57%
		56	3	317	0.44%	46.01%
		57	20	337	2.90%	48.91%
		58	0	337	0%	48.91%
		59	7	344	1.02%	49.93%
		60	20	364	2.90%	52.83%
		61	2	366	0.29%	53.12%
		62	4	370	0.58%	53.70%
		63	21	391	3.05%	56.75%
		64	3	394	0.44%	57.18%
		65	10	404	1.45%	58.64%
		66	18	422	2.61%	61.25%
		67	0	422	0%	61.25%

Table 35
Reading Grade 4 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	5	427	0.73%	61.97%
		69	23	450	3.34%	65.31%
		70	2	452	0.29%	65.60%
		71	5	457	0.73%	66.33%
		72	28	485	4.06%	70.39%
		73	5	490	0.73%	71.12%
		74	1	491	0.15%	71.26%
		75	17	508	2.47%	73.73%
		76	1	509	0.15%	73.88%
		77	6	515	0.87%	74.75%
		78	20	535	2.90%	77.65%
		79	1	536	0.15%	77.79%
		80	4	540	0.58%	78.37%
		81	19	559	2.76%	81.13%
		82	3	562	0.44%	81.57%
		83	4	566	0.58%	82.15%
RD	4	84	17	583	2.47%	84.62%
		85	3	586	0.44%	85.05%
		86	2	588	0.29%	85.34%
		87	15	603	2.18%	87.52%
		88	6	609	0.87%	88.39%
		89	1	610	0.15%	88.53%
		90	20	630	2.90%	91.44%
		91	1	631	0.15%	91.58%
		92	5	636	0.73%	92.31%
		93	14	650	2.03%	94.34%
		94	0	650	0%	94.34%
		95	2	652	0.29%	94.63%
		96	18	670	2.61%	97.24%
		97	0	670	0%	97.24%
		98	5	675	0.73%	97.97%
		99	6	681	0.87%	98.84%
		100	0	681	0%	98.84%
		101	2	683	0.29%	99.13%

Table 35
Reading Grade 4 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	5	688	0.73%	99.85%
		103	0	688	0%	99.85%
		104	0	688	0%	99.85%
RD	4	105	1	689	0.15%	100%

Table 36
Reading Grade 5 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	18	18	2.63%	2.63%
		1	1	19	0.15%	2.77%
		2	2	21	0.29%	3.07%
		3	1	22	0.15%	3.21%
		4	2	24	0.29%	3.50%
		5	2	26	0.29%	3.80%
		6	1	27	0.15%	3.94%
		7	3	30	0.44%	4.38%
		8	0	30	0%	4.38%
		9	4	34	0.58%	4.96%
		10	4	38	0.58%	5.55%
		11	1	39	0.15%	5.69%
		12	4	43	0.58%	6.28%
		13	2	45	0.29%	6.57%
		14	4	49	0.58%	7.15%
		15	8	57	1.17%	8.32%
RD	5	16	1	58	0.15%	8.47%
		17	1	59	0.15%	8.61%
		18	5	64	0.73%	9.34%
		19	1	65	0.15%	9.49%
		20	4	69	0.58%	10.07%
		21	3	72	0.44%	10.51%
		22	6	78	0.88%	11.39%
		23	4	82	0.58%	11.97%
		24	2	84	0.29%	12.26%
		25	2	86	0.29%	12.55%
		26	7	93	1.02%	13.58%
		27	12	105	1.75%	15.33%
		28	1	106	0.15%	15.47%
		29	5	111	0.73%	16.20%
		30	16	127	2.34%	18.54%
		31	4	131	0.58%	19.12%
		32	4	135	0.58%	19.71%
		33	14	149	2.04%	21.75%

Table 36
Reading Grade 5 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	2	151	0.29%	22.04%
		35	1	152	0.15%	22.19%
		36	20	172	2.92%	25.11%
		37	4	176	0.58%	25.69%
		38	2	178	0.29%	25.99%
		39	18	196	2.63%	28.61%
		40	1	197	0.15%	28.76%
		41	4	201	0.58%	29.34%
		42	8	209	1.17%	30.51%
		43	5	214	0.73%	31.24%
		44	2	216	0.29%	31.53%
		45	16	232	2.34%	33.87%
		46	1	233	0.15%	34.01%
		47	5	238	0.73%	34.74%
		48	13	251	1.90%	36.64%
		49	5	256	0.73%	37.37%
RD	5	50	4	260	0.58%	37.96%
		51	13	273	1.90%	39.85%
		52	1	274	0.15%	40.00%
		53	7	281	1.02%	41.02%
		54	17	298	2.48%	43.50%
		55	1	299	0.15%	43.65%
		56	3	302	0.44%	44.09%
		57	16	318	2.34%	46.42%
		58	2	320	0.29%	46.72%
		59	2	322	0.29%	47.01%
		60	20	342	2.92%	49.93%
		61	1	343	0.15%	50.07%
		62	4	347	0.58%	50.66%
		63	17	364	2.48%	53.14%
		64	0	364	0%	53.14%
		65	1	365	0.15%	53.28%
		66	10	375	1.46%	54.74%
		67	3	378	0.44%	55.18%

Table 36
Reading Grade 5 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	2	380	0.29%	55.47%
		69	18	398	2.63%	58.10%
		70	3	401	0.44%	58.54%
		71	6	407	0.88%	59.42%
		72	23	430	3.36%	62.77%
		73	3	433	0.44%	63.21%
		74	4	437	0.58%	63.80%
		75	22	459	3.21%	67.01%
		76	3	462	0.44%	67.45%
		77	4	466	0.58%	68.03%
		78	23	489	3.36%	71.39%
		79	1	490	0.15%	71.53%
		80	4	494	0.58%	72.12%
		81	23	517	3.36%	75.47%
		82	3	520	0.44%	75.91%
		83	13	533	1.90%	77.81%
RD	5	84	21	554	3.07%	80.88%
		85	2	556	0.29%	81.17%
		86	2	558	0.29%	81.46%
		87	28	586	4.09%	85.55%
		88	1	587	0.15%	85.69%
		89	3	590	0.44%	86.13%
		90	27	617	3.94%	90.07%
		91	1	618	0.15%	90.22%
		92	2	620	0.29%	90.51%
		93	23	643	3.36%	93.87%
		94	2	645	0.29%	94.16%
		95	1	646	0.15%	94.31%
		96	17	663	2.48%	96.79%
		97	1	664	0.15%	96.93%
		98	1	665	0.15%	97.08%
		99	10	675	1.46%	98.54%
		100	0	675	0%	98.54%
		101	2	677	0.29%	98.83%

Table 36
Reading Grade 5 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	5	682	0.73%	99.56%
		103	0	682	0%	99.56%
		104	0	682	0%	99.56%
RD	5	105	3	685	0.44%	100%

Table 37
Reading Grade 6 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	17	17	2.60%	2.60%
		1	0	17	0%	2.60%
		2	0	17	0%	2.60%
		3	5	22	0.76%	3.36%
		4	0	22	0%	3.36%
		5	2	24	0.31%	3.66%
		6	2	26	0.31%	3.97%
		7	0	26	0%	3.97%
		8	3	29	0.46%	4.43%
		9	1	30	0.15%	4.58%
		10	2	32	0.31%	4.89%
		11	0	32	0%	4.89%
		12	2	34	0.31%	5.19%
		13	2	36	0.31%	5.50%
		14	0	36	0%	5.50%
		15	2	38	0.31%	5.80%
RD	6	16	3	41	0.46%	6.26%
		17	1	42	0.15%	6.41%
		18	1	43	0.15%	6.56%
		19	3	46	0.46%	7.02%
		20	3	49	0.46%	7.48%
		21	3	52	0.46%	7.94%
		22	0	52	0%	7.94%
		23	5	57	0.76%	8.70%
		24	9	66	1.37%	10.08%
		25	1	67	0.15%	10.23%
		26	3	70	0.46%	10.69%
		27	3	73	0.46%	11.15%
		28	1	74	0.15%	11.30%
		29	5	79	0.76%	12.06%
		30	10	89	1.53%	13.59%
		31	0	89	0%	13.59%
		32	1	90	0.15%	13.74%
		33	9	99	1.37%	15.11%

Table 37
Reading Grade 6 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	0	99	0%	15.11%
		35	1	100	0.15%	15.27%
		36	11	111	1.68%	16.95%
		37	0	111	0%	16.95%
		38	2	113	0.31%	17.25%
		39	7	120	1.07%	18.32%
		40	1	121	0.15%	18.47%
		41	4	125	0.61%	19.08%
		42	23	148	3.51%	22.60%
		43	2	150	0.31%	22.90%
		44	2	152	0.31%	23.21%
		45	15	167	2.29%	25.50%
		46	0	167	0%	25.50%
		47	3	170	0.46%	25.95%
		48	13	183	1.98%	27.94%
		49	4	187	0.61%	28.55%
RD	6	50	4	191	0.61%	29.16%
		51	12	203	1.83%	30.99%
		52	4	207	0.61%	31.60%
		53	3	210	0.46%	32.06%
		54	9	219	1.37%	33.44%
		55	1	220	0.15%	33.59%
		56	4	224	0.61%	34.20%
		57	17	241	2.60%	36.79%
		58	2	243	0.31%	37.10%
		59	4	247	0.61%	37.71%
		60	15	262	2.29%	40.00%
		61	5	267	0.76%	40.76%
		62	3	270	0.46%	41.22%
		63	19	289	2.90%	44.12%
		64	1	290	0.15%	44.27%
		65	4	294	0.61%	44.89%
		66	24	318	3.66%	48.55%
		67	4	322	0.61%	49.16%

Table 37
Reading Grade 6 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	4	326	0.61%	49.77%
		69	18	344	2.75%	52.52%
		70	0	344	0%	52.52%
		71	2	346	0.31%	52.82%
		72	19	365	2.90%	55.73%
		73	3	368	0.46%	56.18%
		74	4	372	0.61%	56.79%
		75	24	396	3.66%	60.46%
		76	1	397	0.15%	60.61%
		77	3	400	0.46%	61.07%
		78	25	425	3.82%	64.89%
		79	2	427	0.31%	65.19%
		80	6	433	0.92%	66.11%
		81	21	454	3.21%	69.31%
		82	3	457	0.46%	69.77%
		83	3	460	0.46%	70.23%
RD	6	84	26	486	3.97%	74.20%
		85	2	488	0.31%	74.50%
		86	1	489	0.15%	74.66%
		87	26	515	3.97%	78.63%
		88	2	517	0.31%	78.93%
		89	5	522	0.76%	79.69%
		90	28	550	4.27%	83.97%
		91	0	550	0%	83.97%
		92	8	558	1.22%	85.19%
		93	26	584	3.97%	89.16%
		94	1	585	0.15%	89.31%
		95	5	590	0.76%	90.08%
		96	31	621	4.73%	94.81%
		97	1	622	0.15%	94.96%
		98	2	624	0.31%	95.27%
		99	19	643	2.90%	98.17%
		100	0	643	0%	98.17%
		101	2	645	0.31%	98.47%

Table 37
Reading Grade 6 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	6	651	0.92%	99.39%
		103	0	651	0%	99.39%
		104	0	651	0%	99.39%
RD	6	105	4	655	0.61%	100%

Table 38
Reading Grade 7 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	18	18	2.86%	2.86%
		1	3	21	0.48%	3.33%
		2	2	23	0.32%	3.65%
		3	3	26	0.48%	4.13%
		4	0	26	0%	4.13%
		5	0	26	0%	4.13%
		6	2	28	0.32%	4.44%
		7	1	29	0.16%	4.60%
		8	2	31	0.32%	4.92%
		9	4	35	0.63%	5.56%
		10	2	37	0.32%	5.87%
		11	0	37	0%	5.87%
		12	4	41	0.63%	6.51%
		13	0	41	0%	6.51%
		14	3	44	0.48%	6.98%
		15	3	47	0.48%	7.46%
RD	7	16	2	49	0.32%	7.78%
		17	3	52	0.48%	8.25%
		18	2	54	0.32%	8.57%
		19	2	56	0.32%	8.89%
		20	2	58	0.32%	9.21%
		21	5	63	0.79%	10.00%
		22	4	67	0.63%	10.63%
		23	2	69	0.32%	10.95%
		24	12	81	1.90%	12.86%
		25	2	83	0.32%	13.17%
		26	2	85	0.32%	13.49%
		27	8	93	1.27%	14.76%
		28	2	95	0.32%	15.08%
		29	7	102	1.11%	16.19%
		30	7	109	1.11%	17.30%
		31	1	110	0.16%	17.46%
		32	0	110	0%	17.46%
		33	12	122	1.90%	19.37%

Table 38
Reading Grade 7 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	4	126	0.63%	20.00%
		35	4	130	0.63%	20.63%
		36	10	140	1.59%	22.22%
		37	3	143	0.48%	22.70%
		38	5	148	0.79%	23.49%
		39	12	160	1.90%	25.40%
		40	2	162	0.32%	25.71%
		41	4	166	0.63%	26.35%
		42	13	179	2.06%	28.41%
		43	4	183	0.63%	29.05%
		44	0	183	0%	29.05%
		45	20	203	3.17%	32.22%
		46	1	204	0.16%	32.38%
		47	5	209	0.79%	33.17%
		48	21	230	3.33%	36.51%
		49	1	231	0.16%	36.67%
RD	7	50	5	236	0.79%	37.46%
		51	19	255	3.02%	40.48%
		52	1	256	0.16%	40.63%
		53	4	260	0.63%	41.27%
		54	23	283	3.65%	44.92%
		55	4	287	0.63%	45.56%
		56	5	292	0.79%	46.35%
		57	21	313	3.33%	49.68%
		58	1	314	0.16%	49.84%
		59	5	319	0.79%	50.63%
		60	20	339	3.17%	53.81%
		61	1	340	0.16%	53.97%
		62	3	343	0.48%	54.44%
		63	13	356	2.06%	56.51%
		64	1	357	0.16%	56.67%
		65	5	362	0.79%	57.46%
		66	20	382	3.17%	60.63%
		67	1	383	0.16%	60.79%

Table 38
Reading Grade 7 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	6	389	0.95%	61.75%
		69	23	412	3.65%	65.40%
		70	0	412	0%	65.40%
		71	5	417	0.79%	66.19%
		72	35	452	5.56%	71.75%
		73	2	454	0.32%	72.06%
		74	4	458	0.63%	72.70%
		75	28	486	4.44%	77.14%
		76	1	487	0.16%	77.30%
		77	5	492	0.79%	78.10%
		78	22	514	3.49%	81.59%
		79	1	515	0.16%	81.75%
		80	7	522	1.11%	82.86%
		81	19	541	3.02%	85.87%
		82	3	544	0.48%	86.35%
		83	2	546	0.32%	86.67%
RD	7	84	20	566	3.17%	89.84%
		85	0	566	0%	89.84%
		86	5	571	0.79%	90.63%
		87	16	587	2.54%	93.17%
		88	1	588	0.16%	93.33%
		89	4	592	0.63%	93.97%
		90	12	604	1.90%	95.87%
		91	1	605	0.16%	96.03%
		92	2	607	0.32%	96.35%
		93	6	613	0.95%	97.30%
		94	1	614	0.16%	97.46%
		95	1	615	0.16%	97.62%
		96	8	623	1.27%	98.89%
		97	0	623	0%	98.89%
		98	0	623	0%	98.89%
		99	4	627	0.63%	99.52%
		100	1	628	0.16%	99.68%
		101	0	628	0%	99.68%

Table 38
Reading Grade 7 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	2	630	0.32%	100%
RD	7	103	0	630	0%	100%
		104	0	630	0%	100%
		105	0	630	0%	100%

Table 39
Reading Grade 8 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	16	16	2.71%	2.71%
		1	1	17	0.17%	2.88%
		2	4	21	0.68%	3.56%
		3	5	26	0.85%	4.41%
		4	3	29	0.51%	4.92%
		5	3	32	0.51%	5.42%
		6	5	37	0.85%	6.27%
		7	0	37	0%	6.27%
		8	1	38	0.17%	6.44%
		9	2	40	0.34%	6.78%
		10	1	41	0.17%	6.95%
		11	1	42	0.17%	7.12%
		12	4	46	0.68%	7.80%
		13	0	46	0%	7.80%
		14	1	47	0.17%	7.97%
		15	1	48	0.17%	8.14%
RD	8	16	1	49	0.17%	8.31%
		17	2	51	0.34%	8.64%
		18	3	54	0.51%	9.15%
		19	2	56	0.34%	9.49%
		20	1	57	0.17%	9.66%
		21	12	69	2.03%	11.69%
		22	1	70	0.17%	11.86%
		23	4	74	0.68%	12.54%
		24	7	81	1.19%	13.73%
		25	1	82	0.17%	13.90%
		26	2	84	0.34%	14.24%
		27	12	96	2.03%	16.27%
		28	1	97	0.17%	16.44%
		29	1	98	0.17%	16.61%
		30	13	111	2.20%	18.81%
		31	5	116	0.85%	19.66%
		32	4	120	0.68%	20.34%
		33	9	129	1.53%	21.86%

Table 39
Reading Grade 8 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	2	131	0.34%	22.20%
		35	6	137	1.02%	23.22%
		36	19	156	3.22%	26.44%
		37	5	161	0.85%	27.29%
		38	4	165	0.68%	27.97%
		39	16	181	2.71%	30.68%
		40	2	183	0.34%	31.02%
		41	4	187	0.68%	31.69%
		42	16	203	2.71%	34.41%
		43	4	207	0.68%	35.08%
		44	2	209	0.34%	35.42%
		45	7	216	1.19%	36.61%
		46	2	218	0.34%	36.95%
		47	2	220	0.34%	37.29%
		48	18	238	3.05%	40.34%
		49	2	240	0.34%	40.68%
RD	8	50	2	242	0.34%	41.02%
		51	17	259	2.88%	43.90%
		52	1	260	0.17%	44.07%
		53	2	262	0.34%	44.41%
		54	12	274	2.03%	46.44%
		55	2	276	0.34%	46.78%
		56	3	279	0.51%	47.29%
		57	17	296	2.88%	50.17%
		58	2	298	0.34%	50.51%
		59	0	298	0%	50.51%
		60	21	319	3.56%	54.07%
		61	1	320	0.17%	54.24%
		62	2	322	0.34%	54.58%
		63	23	345	3.90%	58.47%
		64	0	345	0%	58.47%
		65	2	347	0.34%	58.81%
		66	15	362	2.54%	61.36%
		67	1	363	0.17%	61.53%

Table 39
Reading Grade 8 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	2	365	0.34%	61.86%
		69	27	392	4.58%	66.44%
		70	1	393	0.17%	66.61%
		71	4	397	0.68%	67.29%
		72	28	425	4.75%	72.03%
		73	1	426	0.17%	72.20%
		74	4	430	0.68%	72.88%
		75	23	453	3.90%	76.78%
		76	2	455	0.34%	77.12%
		77	2	457	0.34%	77.46%
		78	15	472	2.54%	80.00%
		79	5	477	0.85%	80.85%
		80	1	478	0.17%	81.02%
		81	17	495	2.88%	83.90%
		82	2	497	0.34%	84.24%
		83	2	499	0.34%	84.58%
RD	8	84	17	516	2.88%	87.46%
		85	3	519	0.51%	87.97%
		86	3	522	0.51%	88.47%
		87	10	532	1.69%	90.17%
		88	0	532	0%	90.17%
		89	4	536	0.68%	90.85%
		90	13	549	2.20%	93.05%
		91	0	549	0%	93.05%
		92	1	550	0.17%	93.22%
		93	14	564	2.37%	95.59%
		94	0	564	0%	95.59%
		95	1	565	0.17%	95.76%
		96	11	576	1.86%	97.63%
		97	1	577	0.17%	97.80%
		98	3	580	0.51%	98.31%
		99	5	585	0.85%	99.15%
		100	0	585	0%	99.15%
		101	1	586	0.17%	99.32%

Table 39
Reading Grade 8 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	3	589	0.51%	99.83%
		103	0	589	0%	99.83%
		104	0	589	0%	99.83%
		105	1	590	0.17%	100%

Table 40
Reading Grade 9 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	18	18	3.47%	3.47%
		1	1	19	0.19%	3.67%
		2	1	20	0.19%	3.86%
		3	2	22	0.39%	4.25%
		4	1	23	0.19%	4.44%
		5	2	25	0.39%	4.83%
		6	1	26	0.19%	5.02%
		7	1	27	0.19%	5.21%
		8	0	27	0%	5.21%
		9	3	30	0.58%	5.79%
		10	2	32	0.39%	6.18%
		11	1	33	0.19%	6.37%
		12	3	36	0.58%	6.95%
		13	1	37	0.19%	7.14%
		14	0	37	0%	7.14%
		15	3	40	0.58%	7.72%
RD	9	16	0	40	0%	7.72%
		17	1	41	0.19%	7.92%
		18	5	46	0.97%	8.88%
		19	2	48	0.39%	9.27%
		20	4	52	0.77%	10.04%
		21	7	59	1.35%	11.39%
		22	4	63	0.77%	12.16%
		23	1	64	0.19%	12.36%
		24	8	72	1.54%	13.90%
		25	4	76	0.77%	14.67%
		26	3	79	0.58%	15.25%
		27	10	89	1.93%	17.18%
		28	1	90	0.19%	17.37%
		29	3	93	0.58%	17.95%
		30	14	107	2.70%	20.66%
		31	0	107	0%	20.66%
		32	3	110	0.58%	21.24%
		33	15	125	2.90%	24.13%

Table 40
Reading Grade 9 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	18	18	3.47%	3.47%
		1	1	19	0.19%	3.67%
		2	1	20	0.19%	3.86%
		3	2	22	0.39%	4.25%
		4	1	23	0.19%	4.44%
		5	2	25	0.39%	4.83%
		6	1	26	0.19%	5.02%
		7	1	27	0.19%	5.21%
		8	0	27	0%	5.21%
		9	3	30	0.58%	5.79%
		10	2	32	0.39%	6.18%
		11	1	33	0.19%	6.37%
		12	3	36	0.58%	6.95%
		13	1	37	0.19%	7.14%
		14	0	37	0%	7.14%
		15	3	40	0.58%	7.72%
RD	9	16	0	40	0%	7.72%
		17	1	41	0.19%	7.92%
		18	5	46	0.97%	8.88%
		19	2	48	0.39%	9.27%
		20	4	52	0.77%	10.04%
		21	7	59	1.35%	11.39%
		22	4	63	0.77%	12.16%
		23	1	64	0.19%	12.36%
		24	8	72	1.54%	13.90%
		25	4	76	0.77%	14.67%
		26	3	79	0.58%	15.25%
		27	10	89	1.93%	17.18%
		28	1	90	0.19%	17.37%
		29	3	93	0.58%	17.95%
		30	14	107	2.70%	20.66%
		31	0	107	0%	20.66%
		32	3	110	0.58%	21.24%
		33	15	125	2.90%	24.13%

Table 40
Reading Grade 9 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	1	305	0.19%	58.88%
		69	22	327	4.25%	63.13%
		70	2	329	0.39%	63.51%
		71	3	332	0.58%	64.09%
		72	13	345	2.51%	66.60%
		73	2	347	0.39%	66.99%
		74	6	353	1.16%	68.15%
		75	15	368	2.90%	71.04%
		76	0	368	0%	71.04%
		77	1	369	0.19%	71.24%
		78	19	388	3.67%	74.90%
		79	2	390	0.39%	75.29%
		80	5	395	0.97%	76.25%
		81	21	416	4.05%	80.31%
		82	3	419	0.58%	80.89%
		83	5	424	0.97%	81.85%
		84	20	444	3.86%	85.71%
RD	9	85	1	445	0.19%	85.91%
		86	3	448	0.58%	86.49%
		87	9	457	1.74%	88.22%
		88	1	458	0.19%	88.42%
		89	2	460	0.39%	88.80%
		90	18	478	3.47%	92.28%
		91	3	481	0.58%	92.86%
		92	4	485	0.77%	93.63%
		93	12	497	2.32%	95.95%
		94	1	498	0.19%	96.14%
		95	2	500	0.39%	96.53%
		96	13	513	2.51%	99.03%
		97	0	513	0%	99.03%
		98	0	513	0%	99.03%
		99	4	517	0.77%	99.81%
		100	1	518	0.19%	100%
		101	0	518	0%	100%
		102	0	518	0%	100%

Table 41
Reading Grade 10 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	22	22	4.01%	4.01%
		1	2	24	0.36%	4.37%
		2	1	25	0.18%	4.55%
		3	1	26	0.18%	4.74%
		4	1	27	0.18%	4.92%
		5	1	28	0.18%	5.10%
		6	0	28	0%	5.10%
		7	1	29	0.18%	5.28%
		8	1	30	0.18%	5.46%
		9	0	30	0%	5.46%
		10	1	31	0.18%	5.65%
		11	0	31	0%	5.65%
		12	2	33	0.36%	6.01%
		13	0	33	0%	6.01%
		14	3	36	0.55%	6.56%
		15	7	43	1.28%	7.83%
RD	10	16	1	44	0.18%	8.01%
		17	2	46	0.36%	8.38%
		18	4	50	0.73%	9.11%
		19	2	52	0.36%	9.47%
		20	2	54	0.36%	9.84%
		21	6	60	1.09%	10.93%
		22	1	61	0.18%	11.11%
		23	0	61	0%	11.11%
		24	17	78	3.10%	14.21%
		25	2	80	0.36%	14.57%
		26	9	89	1.64%	16.21%
		27	19	108	3.46%	19.67%
		28	1	109	0.18%	19.85%
		29	2	111	0.36%	20.22%
		30	17	128	3.10%	23.32%
		31	1	129	0.18%	23.50%
		32	3	132	0.55%	24.04%
		33	20	152	3.64%	27.69%

Table 41
Reading Grade 10 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	3	155	0.55%	28.23%
		35	0	155	0%	28.23%
		36	14	169	2.55%	30.78%
		37	3	172	0.55%	31.33%
		38	4	176	0.73%	32.06%
		39	20	196	3.64%	35.70%
		40	2	198	0.36%	36.07%
		41	5	203	0.91%	36.98%
		42	19	222	3.46%	40.44%
		43	3	225	0.55%	40.98%
		44	5	230	0.91%	41.89%
		45	22	252	4.01%	45.90%
		46	3	255	0.55%	46.45%
		47	2	257	0.36%	46.81%
		48	16	273	2.91%	49.73%
		49	1	274	0.18%	49.91%
RD	10	50	4	278	0.73%	50.64%
		51	10	288	1.82%	52.46%
		52	1	289	0.18%	52.64%
		53	2	291	0.36%	53.01%
		54	10	301	1.82%	54.83%
		55	3	304	0.55%	55.37%
		56	4	308	0.73%	56.10%
		57	12	320	2.19%	58.29%
		58	0	320	0%	58.29%
		59	2	322	0.36%	58.65%
		60	17	339	3.10%	61.75%
		61	2	341	0.36%	62.11%
		62	1	342	0.18%	62.30%
		63	23	365	4.19%	66.48%
		64	2	367	0.36%	66.85%
		65	2	369	0.36%	67.21%
		66	15	384	2.73%	69.95%
		67	4	388	0.73%	70.67%

Table 41
Reading Grade 10 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	0	388	0%	70.67%
		69	14	402	2.55%	73.22%
		70	1	403	0.18%	73.41%
		71	2	405	0.36%	73.77%
		72	25	430	4.55%	78.32%
		73	3	433	0.55%	78.87%
		74	4	437	0.73%	79.60%
		75	15	452	2.73%	82.33%
		76	2	454	0.36%	82.70%
		77	2	456	0.36%	83.06%
		78	22	478	4.01%	87.07%
		79	1	479	0.18%	87.25%
		80	3	482	0.55%	87.80%
		81	9	491	1.64%	89.44%
		82	1	492	0.18%	89.62%
		83	1	493	0.18%	89.80%
		84	13	506	2.37%	92.17%
RD	10	85	1	507	0.18%	92.35%
		86	4	511	0.73%	93.08%
		87	11	522	2.00%	95.08%
		88	1	523	0.18%	95.26%
		89	3	526	0.55%	95.81%
		90	10	536	1.82%	97.63%
		91	0	536	0%	97.63%
		92	1	537	0.18%	97.81%
		93	3	540	0.55%	98.36%
		94	0	540	0%	98.36%
		95	2	542	0.36%	98.72%
		96	4	546	0.73%	99.45%
		97	0	546	0%	99.45%
		98	1	547	0.18%	99.64%
		99	1	548	0.18%	99.82%
		100	0	548	0%	99.82%
		101	0	548	0%	99.82%
		102	1	549	0.18%	100%

Table 42
Writing Grade 3 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	12	12	2.03%	2.03%
		1	2	14	0.34%	2.37%
		2	2	16	0.34%	2.71%
		3	5	21	0.85%	3.56%
		4	1	22	0.17%	3.73%
		5	1	23	0.17%	3.90%
		6	0	23	0%	3.90%
		7	2	25	0.34%	4.24%
		8	0	25	0%	4.24%
		9	3	28	0.51%	4.75%
		10	4	32	0.68%	5.42%
		11	5	37	0.85%	6.27%
		12	10	47	1.69%	7.97%
		13	3	50	0.51%	8.47%
		14	6	56	1.02%	9.49%
		15	14	70	2.37%	11.86%
WR	3	16	1	71	0.17%	12.03%
		17	5	76	0.85%	12.88%
		18	11	87	1.86%	14.75%
		19	5	92	0.85%	15.59%
		20	2	94	0.34%	15.93%
		21	7	101	1.19%	17.12%
		22	5	106	0.85%	17.97%
		23	7	113	1.19%	19.15%
		24	5	118	0.85%	20.00%
		25	2	120	0.34%	20.34%
		26	5	125	0.85%	21.19%
		27	7	132	1.19%	22.37%
		28	4	136	0.68%	23.05%
		29	3	139	0.51%	23.56%
		30	5	144	0.85%	24.41%
		31	3	147	0.51%	24.92%
		32	8	155	1.36%	26.27%
		33	6	161	1.02%	27.29%

Table 42
Writing Grade 3 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	2	163	0.34%	27.63%
		35	5	168	0.85%	28.47%
		36	4	172	0.68%	29.15%
		37	4	176	0.68%	29.83%
		38	11	187	1.86%	31.69%
		39	3	190	0.51%	32.20%
		40	2	192	0.34%	32.54%
		41	11	203	1.86%	34.41%
		42	7	210	1.19%	35.59%
		43	5	215	0.85%	36.44%
		44	6	221	1.02%	37.46%
		45	6	227	1.02%	38.47%
		46	3	230	0.51%	38.98%
		47	7	237	1.19%	40.17%
		48	6	243	1.02%	41.19%
		49	4	247	0.68%	41.86%
WR	3	50	5	252	0.85%	42.71%
		51	6	258	1.02%	43.73%
		52	6	264	1.02%	44.75%
		53	4	268	0.68%	45.42%
		54	5	273	0.85%	46.27%
		55	2	275	0.34%	46.61%
		56	5	280	0.85%	47.46%
		57	2	282	0.34%	47.80%
		58	6	288	1.02%	48.81%
		59	7	295	1.19%	50.00%
		60	3	298	0.51%	50.51%
		61	9	307	1.53%	52.03%
		62	9	316	1.53%	53.56%
		63	4	320	0.68%	54.24%
		64	10	330	1.69%	55.93%
		65	9	339	1.53%	57.46%
		66	5	344	0.85%	58.31%
		67	6	350	1.02%	59.32%

Table 42
Writing Grade 3 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	10	360	1.69%	61.02%
		69	8	368	1.36%	62.37%
		70	10	378	1.69%	64.07%
		71	10	388	1.69%	65.76%
		72	9	397	1.53%	67.29%
		73	8	405	1.36%	68.64%
		74	4	409	0.68%	69.32%
		75	13	422	2.20%	71.53%
		76	15	437	2.54%	74.07%
		77	10	447	1.69%	75.76%
		78	11	458	1.86%	77.63%
		79	11	469	1.86%	79.49%
		80	7	476	1.19%	80.68%
		81	9	485	1.53%	82.20%
		82	8	493	1.36%	83.56%
		83	6	499	1.02%	84.58%
WR	3	84	7	506	1.19%	85.76%
		85	13	519	2.20%	87.97%
		86	5	524	0.85%	88.81%
		87	11	535	1.86%	90.68%
		88	9	544	1.53%	92.20%
		89	5	549	0.85%	93.05%
		90	7	556	1.19%	94.24%
		91	5	561	0.85%	95.08%
		92	5	566	0.85%	95.93%
		93	2	568	0.34%	96.27%
		94	3	571	0.51%	96.78%
		95	3	574	0.51%	97.29%
		96	2	576	0.34%	97.63%
		97	4	580	0.68%	98.31%
		98	3	583	0.51%	98.81%
		99	6	589	1.02%	99.83%
		100	0	589	0%	99.83%
		101	0	589	0%	100%

Table 42
Writing Grade 3 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	0	589	0%	100%
		103	0	589	0%	100%
WR	3	104	0	589	0%	100%
		105	1	590	0.17%	100%

Table 43
Writing Grade 4 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	24	24	3.51%	3.51%
		1	4	28	0.58%	4.09%
		2	3	31	0.44%	4.53%
		3	0	31	0%	4.53%
		4	2	33	0.29%	4.82%
		5	2	35	0.29%	5.12%
		6	2	37	0.29%	5.41%
		7	1	38	0.15%	5.56%
		8	2	40	0.29%	5.85%
		9	6	46	0.88%	6.73%
		10	3	49	0.44%	7.16%
		11	6	55	0.88%	8.04%
		12	11	66	1.61%	9.65%
		13	5	71	0.73%	10.38%
		14	4	75	0.58%	10.96%
		15	4	79	0.58%	11.55%
WR	4	16	2	81	0.29%	11.84%
		17	3	84	0.44%	12.28%
		18	6	90	0.88%	13.16%
		19	2	92	0.29%	13.45%
		20	7	99	1.02%	14.47%
		21	15	114	2.19%	16.67%
		22	2	116	0.29%	16.96%
		23	5	121	0.73%	17.69%
		24	11	132	1.61%	19.30%
		25	0	132	0%	19.30%
		26	5	137	0.73%	20.03%
		27	7	144	1.02%	21.05%
		28	2	146	0.29%	21.35%
		29	8	154	1.17%	22.51%
		30	7	161	1.02%	23.54%
		31	4	165	0.58%	24.12%
		32	6	171	0.88%	25.00%
		33	8	179	1.17%	26.17%

Table 43
Writing Grade 4 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	1	180	0.15%	26.32%
		35	2	182	0.29%	26.61%
		36	6	188	0.88%	27.49%
		37	6	194	0.88%	28.36%
		38	8	202	1.17%	29.53%
		39	6	208	0.88%	30.41%
		40	3	211	0.44%	30.85%
		41	6	217	0.88%	31.73%
		42	5	222	0.73%	32.46%
		43	3	225	0.44%	32.89%
		44	5	230	0.73%	33.63%
		45	5	235	0.73%	34.36%
		46	9	244	1.32%	35.67%
		47	5	249	0.73%	36.40%
		48	9	258	1.32%	37.72%
		49	2	260	0.29%	38.01%
WR	4	50	8	268	1.17%	39.18%
		51	6	274	0.88%	40.06%
		52	6	280	0.88%	40.94%
		53	5	285	0.73%	41.67%
		54	10	295	1.46%	43.13%
		55	6	301	0.88%	44.01%
		56	6	307	0.88%	44.88%
		57	3	310	0.44%	45.32%
		58	6	316	0.88%	46.20%
		59	4	320	0.58%	46.78%
		60	6	326	0.88%	47.66%
		61	9	335	1.32%	48.98%
		62	5	340	0.73%	49.71%
		63	8	348	1.17%	50.88%
		64	7	355	1.02%	51.90%
		65	8	363	1.17%	53.07%
		66	6	369	0.88%	53.95%
		67	14	383	2.05%	55.99%

Table 43
Writing Grade 4 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	4	387	0.58%	56.58%
		69	10	397	1.46%	58.04%
		70	19	416	2.78%	60.82%
		71	6	422	0.88%	61.70%
		72	15	437	2.19%	63.89%
		73	14	451	2.05%	65.94%
		74	8	459	1.17%	67.11%
		75	8	467	1.17%	68.27%
		76	8	475	1.17%	69.44%
		77	13	488	1.90%	71.35%
		78	7	495	1.02%	72.37%
		79	8	503	1.17%	73.54%
		80	11	514	1.61%	75.15%
		81	8	522	1.17%	76.32%
		82	11	533	1.61%	77.92%
		83	7	540	1.02%	78.95%
WR	4	84	8	548	1.17%	80.12%
		85	12	560	1.75%	81.87%
		86	5	565	0.73%	82.60%
		87	17	582	2.49%	85.09%
		88	11	593	1.61%	86.70%
		89	7	600	1.02%	87.72%
		90	9	609	1.32%	89.04%
		91	10	619	1.46%	90.50%
		92	7	626	1.02%	91.52%
		93	10	636	1.46%	92.98%
		94	5	641	0.73%	93.71%
		95	3	644	0.44%	94.15%
		96	7	651	1.02%	95.18%
		97	4	655	0.58%	95.76%
		98	4	659	0.58%	96.35%
		99	9	668	1.32%	97.66%
		100	4	672	0.58%	98.25%
		101	3	675	0.44%	98.68%

Table 43
Writing Grade 4 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	4	679	0.58%	99.27%
		103	2	681	0.29%	99.56%
		104	0	681	0%	99.56%
WR	4	105	2	683	0.29%	99.85%
		106	1	684	0.15%	100%
		107	0	684	0%	100%
		108	0	684	0%	100%

Table 44
Writing Grade 5 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	22	22	3.19%	3.19%
		1	2	24	0.29%	3.48%
		2	2	26	0.29%	3.77%
		3	3	29	0.43%	4.20%
		4	1	30	0.14%	4.35%
		5	6	36	0.87%	5.22%
		6	4	40	0.58%	5.80%
		7	1	41	0.14%	5.94%
		8	2	43	0.29%	6.23%
		9	5	48	0.72%	6.96%
		10	3	51	0.43%	7.39%
		11	2	53	0.29%	7.68%
		12	11	64	1.59%	9.28%
		13	5	69	0.72%	10.00%
		14	2	71	0.29%	10.29%
		15	11	82	1.59%	11.88%
WR	5	16	3	85	0.43%	12.32%
		17	3	88	0.43%	12.75%
		18	4	92	0.58%	13.33%
		19	0	92	0.00%	13.33%
		20	7	99	1.01%	14.35%
		21	6	105	0.87%	15.22%
		22	2	107	0.29%	15.51%
		23	8	115	1.16%	16.67%
		24	3	118	0.43%	17.10%
		25	5	123	0.72%	17.83%
		26	2	125	0.29%	18.12%
		27	4	129	0.58%	18.70%
		28	2	131	0.29%	18.99%
		29	7	138	1.01%	20.00%
		30	8	146	1.16%	21.16%
		31	4	150	0.58%	21.74%
		32	5	155	0.72%	22.46%
		33	7	162	1.01%	23.48%

Table 44
Writing Grade 5 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	3	165	0.43%	23.91%
		35	3	168	0.43%	24.35%
		36	4	172	0.58%	24.93%
		37	3	175	0.43%	25.36%
		38	4	179	0.58%	25.94%
		39	5	184	0.72%	26.67%
		40	2	186	0.29%	26.96%
		41	5	191	0.72%	27.68%
		42	6	197	0.87%	28.55%
		43	3	200	0.43%	28.99%
		44	3	203	0.43%	29.42%
		45	9	212	1.30%	30.72%
		46	3	215	0.43%	31.16%
		47	4	219	0.58%	31.74%
		48	11	230	1.59%	33.33%
		49	7	237	1.01%	34.35%
WR	5	50	4	241	0.58%	34.93%
		51	10	251	1.45%	36.38%
		52	5	256	0.72%	37.10%
		53	6	262	0.87%	37.97%
		54	4	266	0.58%	38.55%
		55	3	269	0.43%	38.99%
		56	5	274	0.72%	39.71%
		57	7	281	1.01%	40.72%
		58	1	282	0.14%	40.87%
		59	7	289	1.01%	41.88%
		60	6	295	0.87%	42.75%
		61	7	302	1.01%	43.77%
		62	3	305	0.43%	44.20%
		63	5	310	0.72%	44.93%
		64	11	321	1.59%	46.52%
		65	5	326	0.72%	47.25%
		66	9	335	1.30%	48.55%
		67	15	350	2.17%	50.72%

Table 44
Writing Grade 5 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	6	356	0.87%	51.59%
		69	10	366	1.45%	53.04%
		70	14	380	2.03%	55.07%
		71	8	388	1.16%	56.23%
		72	15	403	2.17%	58.41%
		73	10	413	1.45%	59.86%
		74	5	418	0.72%	60.58%
		75	15	433	2.17%	62.75%
		76	17	450	2.46%	65.22%
		77	6	456	0.87%	66.09%
		78	16	472	2.32%	68.41%
		79	13	485	1.88%	70.29%
		80	11	496	1.59%	71.88%
		81	18	514	2.61%	74.49%
		82	16	530	2.32%	76.81%
		83	6	536	0.87%	77.68%
WR	5	84	15	551	2.17%	79.86%
		85	8	559	1.16%	81.01%
		86	5	564	0.72%	81.74%
		87	14	578	2.03%	83.77%
		88	10	588	1.45%	85.22%
		89	6	594	0.87%	86.09%
		90	12	606	1.74%	87.83%
		91	11	617	1.59%	89.42%
		92	9	626	1.30%	90.72%
		93	6	632	0.87%	91.59%
		94	4	636	0.58%	92.17%
		95	6	642	0.87%	93.04%
		96	18	660	2.61%	95.65%
		97	3	663	0.43%	96.09%
		98	3	666	0.43%	96.52%
		99	6	672	0.87%	97.39%
		100	3	675	0.43%	97.83%
		101	4	679	0.58%	98.41%

Table 44
Writing Grade 5 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	9	688	1.30%	100%
		103	0	688	0%	100%
WR	5	104	1	689	0.14%	100%
		105	1	690	0.14%	100%

Table 45
Writing Grade 6 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	22	22	3.38%	3.38%
		1	1	23	0.15%	3.54%
		2	2	25	0.31%	3.85%
		3	5	30	0.77%	4.62%
		4	1	31	0.15%	4.77%
		5	3	34	0.46%	5.23%
		6	0	34	0.00%	5.23%
		7	3	37	0.46%	5.69%
		8	1	38	0.15%	5.85%
		9	4	42	0.62%	6.46%
		10	0	42	0%	6.46%
		11	1	43	0.15%	6.62%
		12	11	54	1.69%	8.31%
		13	0	54	0.00%	8.31%
		14	3	57	0.46%	8.77%
		15	5	62	0.77%	9.54%
WR	6	16	3	65	0.46%	10.00%
		17	3	68	0.46%	10.46%
		18	5	73	0.77%	11.23%
		19	2	75	0.31%	11.54%
		20	2	77	0.31%	11.85%
		21	7	84	1.08%	12.92%
		22	1	85	0.15%	13.08%
		23	2	87	0.31%	13.38%
		24	3	90	0.46%	13.85%
		25	1	91	0.15%	14.00%
		26	0	91	0%	14.00%
		27	4	95	0.62%	14.62%
		28	2	97	0.31%	14.92%
		29	6	103	0.92%	15.85%
		30	0	103	0%	15.85%
		31	2	105	0.31%	16.15%
		32	6	111	0.92%	17.08%
		33	2	113	0.31%	17.38%

Table 45
Writing Grade 6 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	1	114	0.15%	17.54%
		35	3	117	0.46%	18.00%
		36	3	120	0.46%	18.46%
		37	9	129	1.38%	19.85%
		38	5	134	0.77%	20.62%
		39	7	141	1.08%	21.69%
		40	3	144	0.46%	22.15%
		41	9	153	1.38%	23.54%
		42	2	155	0.31%	23.85%
		43	4	159	0.62%	24.46%
		44	6	165	0.92%	25.38%
		45	7	172	1.08%	26.46%
		46	6	178	0.92%	27.38%
		47	3	181	0.46%	27.85%
		48	2	183	0.31%	28.15%
		49	1	184	0.15%	28.31%
WR	6	50	3	187	0.46%	28.77%
		51	3	190	0.46%	29.23%
		52	3	193	0.46%	29.69%
		53	7	200	1.08%	30.77%
		54	4	204	0.62%	31.38%
		55	9	213	1%	32.77%
		56	8	221	1.23%	34.00%
		57	2	223	0.31%	34.31%
		58	4	227	0.62%	34.92%
		59	3	230	0.46%	35.38%
		60	6	236	0.92%	36.31%
		61	4	240	0.62%	36.92%
		62	7	247	1.08%	38.00%
		63	4	251	0.62%	38.62%
		64	5	256	0.77%	39.38%
		65	5	261	0.77%	40.15%
		66	9	270	1.38%	41.54%
		67	10	280	1.54%	43.08%

Table 45
Writing Grade 6 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	9	289	1.38%	44.46%
		69	9	298	1.38%	45.85%
		70	9	307	1.38%	47.23%
		71	4	311	0.62%	47.85%
		72	8	319	1.23%	49.08%
		73	8	327	1.23%	50.31%
		74	10	337	1.54%	51.85%
		75	12	349	1.85%	53.69%
		76	11	360	1.69%	55.38%
		77	4	364	0.62%	56.00%
		78	8	372	1.23%	57.23%
		79	18	390	2.77%	60.00%
		80	7	397	1.08%	61.08%
		81	18	415	2.77%	63.85%
		82	10	425	1.54%	65.38%
		83	20	445	3.08%	68.46%
WR	6	84	17	462	2.62%	71.08%
		85	20	482	3.08%	74.15%
		86	11	493	1.69%	75.85%
		87	16	509	2.46%	78.31%
		88	13	522	2.00%	80.31%
		89	11	533	1.69%	82.00%
		90	18	551	2.77%	84.77%
		91	11	562	1.69%	86.46%
		92	10	572	1.54%	88.00%
		93	10	582	1.54%	89.54%
		94	4	586	0.62%	90.15%
		95	10	596	1.54%	91.69%
		96	21	617	3.23%	94.92%
		97	4	621	0.62%	95.54%
		98	7	628	1.08%	96.62%
		99	12	640	1.85%	98.46%
		100	0	640	0%	98.46%
		101	2	642	0.31%	98.77%

Table 45
Writing Grade 6 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	2	644	0.31%	99.08%
		103	1	645	0.15%	99.23%
WR	6	104	0	645	0%	99.23%
		105	5	650	0.77%	100%

Table 46
Writing Grade 7 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	23	23	3.67%	3.67%
		1	2	25	0.32%	3.99%
		2	2	27	0.32%	4.31%
		3	7	34	1.12%	5.43%
		4	2	36	0.32%	5.75%
		5	3	39	0.48%	6.23%
		6	6	45	0.96%	7.19%
		7	2	47	0.32%	7.51%
		8	4	51	0.64%	8.15%
		9	2	53	0.32%	8.47%
		10	1	54	0.16%	8.63%
		11	1	55	0.16%	8.79%
		12	2	57	0.32%	9.11%
		13	2	59	0.32%	9.42%
		14	1	60	0.16%	9.58%
		15	7	67	1.12%	10.70%
WR	7	16	3	70	0.48%	11.18%
		17	0	70	0%	11.18%
		18	8	78	1.28%	12.46%
		19	2	80	0.32%	12.78%
		20	0	80	0%	12.78%
		21	6	86	0.96%	13.74%
		22	3	89	0.48%	14.22%
		23	4	93	0.64%	14.86%
		24	3	96	0.48%	15.34%
		25	2	98	0.32%	15.65%
		26	2	100	0.32%	15.97%
		27	6	106	0.96%	16.93%
		28	3	109	0.48%	17.41%
		29	4	113	0.64%	18.05%
		30	5	118	0.80%	18.85%
		31	3	121	0.48%	19.33%
		32	4	125	0.64%	19.97%
		33	9	134	1.44%	21.41%

Table 46
Writing Grade 7 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	0	134	0%	21.41%
		35	8	142	1.28%	22.68%
		36	6	148	0.96%	23.64%
		37	5	153	0.80%	24.44%
		38	2	155	0.32%	24.76%
		39	5	160	0.80%	25.56%
		40	5	165	0.80%	26.36%
		41	5	170	0.80%	27.16%
		42	10	180	1.60%	28.75%
		43	0	180	0%	28.75%
		44	7	187	1.12%	29.87%
		45	2	189	0.32%	30.19%
		46	2	191	0.32%	30.51%
		47	8	199	1.28%	31.79%
		48	8	207	1.28%	33.07%
		49	4	211	0.64%	33.71%
WR	7	50	9	220	1.44%	35.14%
		51	0	220	0%	35.14%
		52	3	223	0.48%	35.62%
		53	2	225	0.32%	35.94%
		54	6	231	0.96%	36.90%
		55	2	233	0.32%	37.22%
		56	5	238	0.80%	38.02%
		57	3	241	0.48%	38.50%
		58	6	247	0.96%	39.46%
		59	2	249	0.32%	39.78%
		60	4	253	0.64%	40.42%
		61	1	254	0.16%	40.58%
		62	9	263	1.44%	42.01%
		63	3	266	0.48%	42.49%
		64	4	270	0.64%	43.13%
		65	4	274	0.64%	43.77%
		66	4	278	0.64%	44.41%
		67	3	281	0.48%	44.89%

Table 46
Writing Grade 7 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	9	290	1.44%	46.33%
		69	1	291	0.16%	46.49%
		70	9	300	1.44%	47.92%
		71	7	307	1.12%	49.04%
		72	6	313	0.96%	50.00%
		73	9	322	1.44%	51.44%
		74	6	328	0.96%	52.40%
		75	9	337	1.44%	53.83%
		76	14	351	2.24%	56.07%
		77	9	360	1.44%	57.51%
		78	2	362	0.32%	57.83%
		79	17	379	2.72%	60.54%
		80	11	390	1.76%	62.30%
		81	13	403	2.08%	64.38%
		82	9	412	1.44%	65.81%
		83	8	420	1.28%	67.09%
WR	7	84	16	436	2.56%	69.65%
		85	7	443	1.12%	70.77%
		86	10	453	1.60%	72.36%
		87	8	461	1.28%	73.64%
		88	13	474	2.08%	75.72%
		89	10	484	1.60%	77.32%
		90	15	499	2.40%	79.71%
		91	14	513	2.24%	81.95%
		92	10	523	1.60%	83.55%
		93	14	537	2.24%	85.78%
		94	7	544	1.12%	86.90%
		95	13	557	2.08%	88.98%
		96	13	570	2.08%	91.05%
		97	7	577	1.12%	92.17%
		98	7	584	1.12%	93.29%
		99	13	597	2.08%	95.37%
		100	3	600	0.48%	95.85%
		101	3	603	0.48%	96.33%

Table 46
Writing Grade 7 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	6	609	0.96%	97.28%
		103	2	611	0.32%	97.60%
		104	3	614	0.48%	98.08%
WR	7	105	8	622	1.28%	99.36%
		106	2	624	0.32%	99.68%
		107	1	625	0.16%	100%
		108	1	626	0.16%	100%

Table 47
Writing Grade 8 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	20	20	3.40%	3.40%
		1	4	24	0.68%	4.07%
		2	2	26	0.34%	4.41%
		3	2	28	0.34%	4.75%
		4	2	30	0.34%	5.09%
		5	1	31	0.17%	5.26%
		6	7	38	1.19%	6.45%
		7	0	38	0%	6.45%
		8	2	40	0.34%	6.79%
		9	3	43	0.51%	7.30%
		10	3	46	0.51%	7.81%
		11	1	47	0.17%	7.98%
		12	8	55	1.36%	9.34%
		13	1	56	0.17%	9.51%
		14	3	59	0.51%	10.02%
		15	9	68	1.53%	11.54%
WR	8	16	0	68	0%	11.54%
		17	1	69	0.17%	11.71%
		18	6	75	1.02%	12.73%
		19	1	76	0.17%	12.90%
		20	0	76	0%	12.90%
		21	3	79	0.51%	13.41%
		22	0	79	0%	13.41%
		23	2	81	0.34%	13.75%
		24	8	89	1.36%	15.11%
		25	3	92	0.51%	15.62%
		26	3	95	0.51%	16.13%
		27	6	101	1.02%	17.15%
		28	3	104	0.51%	17.66%
		29	5	109	0.85%	18.51%
		30	6	115	1.02%	19.52%
		31	3	118	0.51%	20.03%
		32	2	120	0.34%	20.37%
		33	9	129	1.53%	21.90%

Table 47
Writing Grade 8 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	2	131	0.34%	22.24%
		35	3	134	0.51%	22.75%
		36	5	139	0.85%	23.60%
		37	4	143	0.68%	24.28%
		38	5	148	0.85%	25.13%
		39	5	153	0.85%	25.98%
		40	3	156	0.51%	26.49%
		41	2	158	0.34%	26.83%
		42	4	162	0.68%	27.50%
		43	1	163	0.17%	27.67%
		44	4	167	0.68%	28.35%
		45	2	169	0.34%	28.69%
		46	8	177	1.36%	30.05%
		47	2	179	0.34%	30.39%
		48	0	179	0.00%	30.39%
		49	2	181	0.34%	30.73%
WR	8	50	5	186	0.85%	31.58%
		51	2	188	0.34%	31.92%
		52	6	194	1.02%	32.94%
		53	6	200	1.02%	33.96%
		54	7	207	1.19%	35.14%
		55	6	213	1.02%	36.16%
		56	6	219	1.02%	37.18%
		57	2	221	0.34%	37.52%
		58	4	225	0.68%	38.20%
		59	5	230	0.85%	39.05%
		60	4	234	0.68%	39.73%
		61	3	237	0.51%	40.24%
		62	4	241	0.68%	40.92%
		63	3	244	0.51%	41.43%
		64	8	252	1.36%	42.78%
		65	2	254	0.34%	43.12%
		66	4	258	0.68%	43.80%
		67	10	268	1.70%	45.50%

Table 47
Writing Grade 8 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	3	271	0.51%	46.01%
		69	4	275	0.68%	46.69%
		70	8	283	1.36%	48.05%
		71	9	292	1.53%	49.58%
		72	6	298	1.02%	50.59%
		73	11	309	1.87%	52.46%
		74	6	315	1.02%	53.48%
		75	10	325	1.70%	55.18%
		76	9	334	1.53%	56.71%
		77	8	342	1.36%	58.06%
		78	13	355	2.21%	60.27%
		79	15	370	2.55%	62.82%
		80	15	385	2.55%	65.37%
		81	14	399	2.38%	67.74%
		82	8	407	1.36%	69.10%
		83	12	419	2.04%	71.14%
WR	8	84	14	433	2.38%	73.51%
		85	11	444	1.87%	75.38%
		86	16	460	2.72%	78.10%
		87	20	480	3.40%	81.49%
		88	7	487	1.19%	82.68%
		89	13	500	2.21%	84.89%
		90	24	524	4.07%	88.96%
		91	5	529	0.85%	89.81%
		92	5	534	0.85%	90.66%
		93	16	550	2.72%	93.38%
		94	2	552	0.34%	93.72%
		95	6	558	1.02%	94.74%
		96	10	568	1.70%	96.43%
		97	0	568	0%	96.43%
		98	1	569	0.17%	96.60%
		99	6	575	1.02%	97.62%
		100	1	576	0.17%	97.79%
		101	2	578	0.34%	98.13%

Table 47
Writing Grade 8 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	5	583	0.85%	98.98%
		103	0	583	0%	98.98%
		104	1	584	0.17%	99.15%
WR	8	105	2	586	0.34%	99.49%
		106	1	587	0.17%	100%
		107	2	589	0.34%	100%
		108	0	589	0%	100%

Table 48
Writing Grade 9 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	22	22	4.25%	4.25%
		1	1	23	0.19%	4.44%
		2	0	23	0%	4.44%
		3	1	24	0.19%	4.63%
		4	2	26	0.39%	5.02%
		5	2	28	0.39%	5.41%
		6	3	31	0.58%	5.98%
		7	0	31	0%	5.98%
		8	1	32	0.19%	6.18%
		9	0	32	0%	6.18%
		10	4	36	0.77%	6.95%
		11	4	40	0.77%	7.72%
		12	4	44	0.77%	8.49%
		13	3	47	0.58%	9.07%
		14	2	49	0.39%	9.46%
		15	6	55	1.16%	10.62%
WR	9	16	0	55	0%	10.62%
		17	3	58	0.58%	11.20%
		18	5	63	0.97%	12.16%
		19	0	63	0%	12.16%
		20	5	68	0.97%	13.13%
		21	11	79	2.12%	15.25%
		22	3	82	0.58%	15.83%
		23	2	84	0.39%	16.22%
		24	4	88	0.77%	16.99%
		25	2	90	0.39%	17.37%
		26	3	93	0.58%	17.95%
		27	5	98	0.97%	18.92%
		28	5	103	0.97%	19.88%
		29	2	105	0.39%	20.27%
		30	7	112	1.35%	21.62%
		31	3	115	0.58%	22.20%
		32	1	116	0.19%	22.39%
		33	4	120	0.77%	23.17%

Table 48
Writing Grade 9 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	4	124	0.77%	23.94%
		35	4	128	0.77%	24.71%
		36	1	129	0.19%	24.90%
		37	5	134	0.97%	25.87%
		38	4	138	0.77%	26.64%
		39	1	139	0.19%	26.83%
		40	1	140	0.19%	27.03%
		41	2	142	0.39%	27.41%
		42	4	146	0.77%	28.19%
		43	2	148	0.39%	28.57%
		44	3	151	0.58%	29.15%
		45	2	153	0.39%	29.54%
		46	3	156	0.58%	30.12%
		47	2	158	0.39%	30.50%
		48	2	160	0.39%	30.89%
		49	2	162	0.39%	31.27%
WR	9	50	1	163	0.19%	31.47%
		51	3	166	0.58%	32.05%
		52	4	170	0.77%	32.82%
		53	5	175	0.97%	33.78%
		54	3	178	0.58%	34.36%
		55	1	179	0.19%	34.56%
		56	2	181	0.39%	34.94%
		57	5	186	0.97%	35.91%
		58	9	195	1.74%	37.64%
		59	3	198	0.58%	38.22%
		60	5	203	0.97%	39.19%
		61	2	205	0.39%	39.58%
		62	9	214	1.74%	41.31%
		63	4	218	0.77%	42.08%
		64	4	222	0.77%	42.86%
		65	3	225	0.58%	43.44%
		66	3	228	0.58%	44.02%
		67	8	236	1.54%	45.56%

Table 48
Writing Grade 9 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	6	242	1.16%	46.72%
		69	4	246	0.77%	47.49%
		70	6	252	1.16%	48.65%
		71	8	260	1.54%	50.19%
		72	5	265	0.97%	51.16%
		73	9	274	1.74%	52.90%
		74	7	281	1.35%	54.25%
		75	7	288	1.35%	55.60%
		76	15	303	2.90%	58.49%
		77	10	313	1.93%	60.42%
		78	10	323	1.93%	62.36%
		79	15	338	2.90%	65.25%
		80	4	342	0.77%	66.02%
		81	16	358	3.09%	69.11%
		82	11	369	2.12%	71.24%
		83	5	374	0.97%	72.20%
WR	9	84	22	396	4.25%	76.45%
		85	9	405	1.74%	78.19%
		86	10	415	1.93%	80.12%
		87	13	428	2.51%	82.63%
		88	2	430	0.39%	83.01%
		89	14	444	2.70%	85.71%
		90	11	455	2.12%	87.84%
		91	8	463	1.54%	89.38%
		92	12	475	2.32%	91.70%
		93	10	485	1.93%	93.63%
		94	6	491	1.16%	94.79%
		95	3	494	0.58%	95.37%
		96	10	504	1.93%	97.30%
		97	1	505	0.19%	97.49%
		98	1	506	0.19%	97.68%
		99	8	514	1.54%	99.23%
		100	1	515	0.19%	99.42%
		101	2	517	0.39%	99.81%

Table 48
Writing Grade 9 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	1	518	0.19%	100%
WR	9	103	0	518	0%	100%
		104	0	518	0%	100%
		105	0	518	0%	100%

Table 49
Writing Grade 10 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	22	22	4.03%	4.03%
		1	1	23	0.18%	4.21%
		2	1	24	0.18%	4.40%
		3	2	26	0.37%	4.76%
		4	0	26	0%	4.76%
		5	2	28	0.37%	5.13%
		6	1	29	0.18%	5.31%
		7	1	30	0.18%	5.49%
		8	1	31	0.18%	5.68%
		9	2	33	0.37%	6.04%
		10	1	34	0.18%	6.23%
		11	0	34	0%	6.23%
		12	7	41	1.28%	7.51%
		13	0	41	0.00%	7.51%
		14	5	46	0.92%	8.42%
		15	6	52	1.10%	9.52%
		16	0	52	0%	9.52%
WR	10	17	1	53	0.18%	9.71%
		18	4	57	0.73%	10.44%
		19	1	58	0.18%	10.62%
		20	2	60	0.37%	10.99%
		21	12	72	2.20%	13.19%
		22	1	73	0.18%	13.37%
		23	1	74	0.18%	13.55%
		24	7	81	1.28%	14.84%
		25	4	85	0.73%	15.57%
		26	3	88	0.55%	16.12%
		27	2	90	0.37%	16.48%
		28	3	93	0.55%	17.03%
		29	1	94	0.18%	17.22%
		30	1	95	0.18%	17.40%
		31	6	101	1.10%	18.50%
		32	0	101	0%	18.50%
		33	5	106	0.92%	19.41%

Table 49
Writing Grade 10 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	3	109	0.55%	19.96%
		35	4	113	0.73%	20.70%
		36	2	115	0.37%	21.06%
		37	7	122	1.28%	22.34%
		38	5	127	0.92%	23.26%
		39	3	130	0.55%	23.81%
		40	9	139	1.65%	25.46%
		41	3	142	0.55%	26.01%
		42	2	144	0.37%	26.37%
		43	3	147	0.55%	26.92%
		44	3	150	0.55%	27.47%
		45	1	151	0.18%	27.66%
		46	5	156	0.92%	28.57%
		47	1	157	0.18%	28.75%
		48	4	161	0.73%	29.49%
		49	2	163	0.37%	29.85%
WR	10	50	4	167	0.73%	30.59%
		51	1	168	0.18%	30.77%
		52	7	175	1.28%	32.05%
		53	3	178	0.55%	32.60%
		54	7	185	1.28%	33.88%
		55	4	189	0.73%	34.62%
		56	1	190	0.18%	34.80%
		57	5	195	0.92%	35.71%
		58	6	201	1.10%	36.81%
		59	9	210	1.65%	38.46%
		60	6	216	1.10%	39.56%
		61	6	222	1.10%	40.66%
		62	8	230	1.47%	42.12%
		63	9	239	1.65%	43.77%
		64	5	244	0.92%	44.69%
		65	3	247	0.55%	45.24%
		66	5	252	0.92%	46.15%
		67	8	260	1.47%	47.62%

Table 49
Writing Grade 10 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	7	267	1.28%	48.90%
		69	11	278	2.01%	50.92%
		70	9	287	1.65%	52.56%
		71	9	296	1.65%	54.21%
		72	4	300	0.73%	54.95%
		73	10	310	1.83%	56.78%
		74	9	319	1.65%	58.42%
		75	9	328	1.65%	60.07%
		76	8	336	1.47%	61.54%
		77	10	346	1.83%	63.37%
		78	9	355	1.65%	65.02%
		79	11	366	2.01%	67.03%
		80	7	373	1.28%	68.32%
		81	13	386	2.38%	70.70%
		82	8	394	1.47%	72.16%
		83	12	406	2.20%	74.36%
WR	10	84	14	420	2.56%	76.92%
		85	15	435	2.75%	79.67%
		86	11	446	2.01%	81.68%
		87	14	460	2.56%	84.25%
		88	6	466	1.10%	85.35%
		89	7	473	1.28%	86.63%
		90	8	481	1.47%	88.10%
		91	4	485	0.73%	88.83%
		92	3	488	0.55%	89.38%
		93	9	497	1.65%	91.03%
		94	7	504	1.28%	92.31%
		95	6	510	1.10%	93.41%
		96	8	518	1.47%	94.87%
		97	3	521	0.55%	95.42%
		98	6	527	1.10%	96.52%
		99	9	536	1.65%	98.17%
		100	3	539	0.55%	98.72%
		101	1	540	0.18%	98.90%

Table 49
Writing Grade 10 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	3	543	0.55%	99.45%
		103	0	543	0%	99.45%
		104	0	543	0%	99.45%
WR	10	105	3	546	0.55%	100%
		106	0	546	0%	100%
		107	0	546	0%	100%
		108	0	546	0%	100%

Table 50
Mathematics Grade 3 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	10	10	1.72%	1.72%
		1	1	11	0.17%	1.89%
		2	2	13	0.34%	2.23%
		3	2	15	0.34%	2.57%
		4	3	18	0.51%	3.09%
		5	1	19	0.17%	3.26%
		6	3	22	0.51%	3.77%
		7	0	22	0%	3.77%
		8	0	22	0%	3.77%
		9	3	25	0.51%	4.29%
		10	3	28	0.51%	4.80%
		11	0	28	0%	4.80%
		12	2	30	0.34%	5.15%
		13	2	32	0.34%	5.49%
		14	1	33	0.17%	5.66%
		15	2	35	0.34%	6.00%
MA	3	16	3	38	0.51%	6.52%
		17	0	38	0%	6.52%
		18	1	39	0.17%	6.69%
		19	2	41	0.34%	7.03%
		20	2	43	0.34%	7.38%
		21	0	43	0%	7.38%
		22	1	44	0.17%	7.55%
		23	2	46	0.34%	7.89%
		24	3	49	0.51%	8.40%
		25	1	50	0.17%	8.58%
		26	1	51	0.17%	8.75%
		27	2	53	0.34%	9.09%
		28	1	54	0.17%	9.26%
		29	3	57	0.51%	9.78%
		30	5	62	0.86%	10.63%
		31	5	67	0.86%	11.49%
		32	1	68	0.17%	11.66%
		33	1	69	0.17%	11.84%

Table 50
Mathematics Grade 3 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	2	71	0.34%	12.18%
		35	2	73	0.34%	12.52%
		36	3	76	0.51%	13.04%
		37	5	81	0.86%	13.89%
		38	1	82	0.17%	14.07%
		39	3	85	0.51%	14.58%
		40	3	88	0.51%	15.09%
		41	4	92	0.69%	15.78%
		42	4	96	0.69%	16.47%
		43	3	99	0.51%	16.98%
		44	5	104	0.86%	17.84%
		45	8	112	1.37%	19.21%
		46	6	118	1.03%	20.24%
		47	3	121	0.51%	20.75%
		48	3	124	0.51%	21.27%
		49	5	129	0.86%	22.13%
MA	3	50	4	133	0.69%	22.81%
		51	4	137	0.69%	23.50%
		52	3	140	0.51%	24.01%
		53	3	143	0.51%	24.53%
		54	3	146	0.51%	25.04%
		55	2	148	0.34%	25.39%
		56	7	155	1.20%	26.59%
		57	0	155	0%	26.59%
		58	0	155	0%	26.59%
		59	3	158	0.51%	27.10%
		60	5	163	0.86%	27.96%
		61	7	170	1.20%	29.16%
		62	4	174	0.69%	29.85%
		63	6	180	1.03%	30.87%
		64	3	183	0.51%	31.39%
		65	4	187	0.69%	32.08%
		66	7	194	1.20%	33.28%
		67	2	196	0.34%	33.62%

Table 50
Mathematics Grade 3 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	3	199	0.51%	34.13%
		69	3	202	0.51%	34.65%
		70	4	206	0.69%	35.33%
		71	7	213	1.20%	36.54%
		72	3	216	0.51%	37.05%
		73	3	219	0.51%	37.56%
		74	2	221	0.34%	37.91%
		75	6	227	1.03%	38.94%
		76	4	231	0.69%	39.62%
		77	1	232	0.17%	39.79%
		78	2	234	0.34%	40.14%
		79	4	238	0.69%	40.82%
		80	5	243	0.86%	41.68%
		81	6	249	1.03%	42.71%
		82	6	255	1.03%	43.74%
		83	6	261	1.03%	44.77%
MA	3	84	5	266	0.86%	45.63%
		85	6	272	1.03%	46.66%
		86	6	278	1.03%	47.68%
		87	8	286	1.37%	49.06%
		88	8	294	1.37%	50.43%
		89	9	303	1.54%	51.97%
		90	9	312	1.54%	53.52%
		91	4	316	0.69%	54.20%
		92	10	326	1.72%	55.92%
		93	3	329	0.51%	56.43%
		94	11	340	1.89%	58.32%
		95	6	346	1.03%	59.35%
		96	7	353	1.20%	60.55%
		97	6	359	1.03%	61.58%
		98	7	366	1.20%	62.78%
		99	6	372	1.03%	63.81%
		100	11	383	1.89%	65.69%
		101	8	391	1.37%	67.07%

Table 50
Mathematics Grade 3 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	7	398	1.20%	68.27%
		103	9	407	1.54%	69.81%
		104	14	421	2.40%	72.21%
		105	12	433	2.06%	74.27%
		106	5	438	0.86%	75.13%
		107	10	448	1.72%	76.84%
		108	9	457	1.54%	78.39%
		109	11	468	1.89%	80.27%
		110	11	479	1.89%	82.16%
		111	13	492	2.23%	84.39%
		112	13	505	2.23%	86.62%
		113	8	513	1.37%	87.99%
MA	3	114	12	525	2.06%	90.05%
		115	7	532	1.20%	91.25%
		116	5	537	0.86%	92.11%
		117	7	544	1.20%	93.31%
		118	9	553	1.54%	94.85%
		119	6	559	1.03%	95.88%
		120	4	563	0.69%	96.57%
		121	5	568	0.86%	97.43%
		122	4	572	0.69%	98.11%
		123	6	578	1.03%	99.14%
		124	1	579	0.17%	99.31%
		125	3	582	0.51%	99.83%
		126	1	583	0.17%	100%

Table 51
Mathematics Grade 4 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	23	23	3.39%	3.39%
		1	0	23	0%	3.39%
		2	0	23	0%	3.39%
		3	2	25	0.29%	3.68%
		4	1	26	0.15%	3.83%
		5	2	28	0.29%	4.12%
		6	4	32	0.59%	4.71%
		7	3	35	0.44%	5.15%
		8	0	35	0%	5.15%
		9	2	37	0.29%	5.45%
		10	2	39	0.29%	5.74%
		11	1	40	0.15%	5.89%
		12	3	43	0.44%	6.33%
		13	0	43	0%	6.33%
		14	3	46	0.44%	6.77%
		15	2	48	0.29%	7.07%
MA	4	16	2	50	0.29%	7.36%
		17	1	51	0.15%	7.51%
		18	3	54	0.44%	7.95%
		19	3	57	0.44%	8.39%
		20	1	58	0.15%	8.54%
		21	2	60	0.29%	8.84%
		22	2	62	0.29%	9.13%
		23	5	67	0.74%	9.87%
		24	2	69	0.29%	10.16%
		25	3	72	0.44%	10.60%
		26	4	76	0.59%	11.19%
		27	2	78	0.29%	11.49%
		28	1	79	0.15%	11.63%
		29	4	83	0.59%	12.22%
		30	5	88	0.74%	12.96%
		31	2	90	0.29%	13.25%
		32	4	94	0.59%	13.84%
		33	3	97	0.44%	14.29%

Table 51
Mathematics Grade 4 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	1	98	0.15%	14.43%
		35	3	101	0.44%	14.87%
		36	3	104	0.44%	15.32%
		37	9	113	1.33%	16.64%
		38	1	114	0.15%	16.79%
		39	3	117	0.44%	17.23%
		40	3	120	0.44%	17.67%
		41	4	124	0.59%	18.26%
		42	2	126	0.29%	18.56%
		43	3	129	0.44%	19.00%
		44	5	134	0.74%	19.73%
		45	7	141	1.03%	20.77%
		46	4	145	0.59%	21.35%
		47	2	147	0.29%	21.65%
		48	3	150	0.44%	22.09%
		49	2	152	0.29%	22.39%
MA	4	50	3	155	0.44%	22.83%
		51	3	158	0.44%	23.27%
		52	7	165	1.03%	24.30%
		53	4	169	0.59%	24.89%
		54	1	170	0.15%	25.04%
		55	6	176	0.88%	25.92%
		56	3	179	0.44%	26.36%
		57	1	180	0.15%	26.51%
		58	2	182	0.29%	26.80%
		59	3	185	0.44%	27.25%
		60	4	189	0.59%	27.84%
		61	6	195	0.88%	28.72%
		62	6	201	0.88%	29.60%
		63	3	204	0.44%	30.04%
		64	3	207	0.44%	30.49%
		65	2	209	0.29%	30.78%
		66	4	213	0.59%	31.37%
		67	2	215	0.29%	31.66%

Table 51
Mathematics Grade 4 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	5	220	0.74%	32.40%
		69	3	223	0.44%	32.84%
		70	6	229	0.88%	33.73%
		71	4	233	0.59%	34.32%
		72	3	236	0.44%	34.76%
		73	3	239	0.44%	35.20%
		74	4	243	0.59%	35.79%
		75	4	247	0.59%	36.38%
		76	4	251	0.59%	36.97%
		77	4	255	0.59%	37.56%
		78	2	257	0.29%	37.85%
		79	6	263	0.88%	38.73%
		80	5	268	0.74%	39.47%
		81	10	278	1.47%	40.94%
		82	9	287	1.33%	42.27%
		83	6	293	0.88%	43.15%
MA	4	84	8	301	1.18%	44.33%
		85	4	305	0.59%	44.92%
		86	7	312	1.03%	45.95%
		87	4	316	0.59%	46.54%
		88	6	322	0.88%	47.42%
		89	8	330	1.18%	48.60%
		90	4	334	0.59%	49.19%
		91	9	343	1.33%	50.52%
		92	8	351	1.18%	51.69%
		93	9	360	1.33%	53.02%
		94	8	368	1.18%	54.20%
		95	2	370	0.29%	54.49%
		96	8	378	1.18%	55.67%
		97	8	386	1.18%	56.85%
		98	8	394	1.18%	58.03%
		99	5	399	0.74%	58.76%
		100	7	406	1.03%	59.79%
		101	10	416	1.47%	61.27%

Table 51
Mathematics Grade 4 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	13	429	1.91%	63.18%
		103	13	442	1.91%	65.10%
		104	9	451	1.33%	66.42%
		105	7	458	1.03%	67.45%
		106	13	471	1.91%	69.37%
		107	11	482	1.62%	70.99%
		108	8	490	1.18%	72.16%
		109	10	500	1.47%	73.64%
		110	12	512	1.77%	75.41%
		111	17	529	2.50%	77.91%
		112	10	539	1.47%	79.38%
		113	15	554	2.21%	81.59%
		114	12	566	1.77%	83.36%
MA	4	115	7	573	1.03%	84.39%
		116	9	582	1.33%	85.71%
		117	8	590	1.18%	86.89%
		118	12	602	1.77%	88.66%
		119	16	618	2.36%	91.02%
		120	4	622	0.59%	91.61%
		121	10	632	1.47%	93.08%
		122	11	643	1.62%	94.70%
		123	8	651	1.18%	95.88%
		124	8	659	1.18%	97.05%
		125	7	666	1.03%	98.09%
		126	3	669	0.44%	98.53%
		127	2	671	0.29%	98.82%
		128	5	676	0.74%	99.56%
		129	3	679	0.44%	100%

Table 52
Mathematics Grade 5 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	16	16	2.33%	2.33%
		1	6	22	0.87%	3.20%
		2	4	26	0.58%	3.78%
		3	2	28	0.29%	4.08%
		4	2	30	0.29%	4.37%
		5	0	30	0%	4.37%
		6	0	30	0%	4.37%
		7	2	32	0.29%	4.66%
		8	1	33	0.15%	4.80%
		9	5	38	0.73%	5.53%
		10	1	39	0.15%	5.68%
		11	2	41	0.29%	5.97%
		12	3	44	0.44%	6.40%
		13	1	45	0.15%	6.55%
		14	6	51	0.87%	7.42%
		15	3	54	0.44%	7.86%
MA	5	16	1	55	0.15%	8.01%
		17	1	56	0.15%	8.15%
		18	2	58	0.29%	8.44%
		19	2	60	0.29%	8.73%
		20	3	63	0.44%	9.17%
		21	5	68	0.73%	9.90%
		22	2	70	0.29%	10.19%
		23	4	74	0.58%	10.77%
		24	1	75	0.15%	10.92%
		25	1	76	0.15%	11.06%
		26	3	79	0.44%	11.50%
		27	2	81	0.29%	11.79%
		28	3	84	0.44%	12.23%
		29	4	88	0.58%	12.81%
		30	3	91	0.44%	13.25%
		31	3	94	0.44%	13.68%
		32	2	96	0.29%	13.97%
		33	5	101	0.73%	14.70%

Table 52
Mathematics Grade 5 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	1	102	0.15%	14.85%
		35	2	104	0.29%	15.14%
		36	2	106	0.29%	15.43%
		37	2	108	0.29%	15.72%
		38	4	112	0.58%	16.30%
		39	3	115	0.44%	16.74%
		40	1	116	0.15%	16.89%
		41	2	118	0.29%	17.18%
		42	5	123	0.73%	17.90%
		43	2	125	0.29%	18.20%
		44	4	129	0.58%	18.78%
		45	3	132	0.44%	19.21%
		46	3	135	0.44%	19.65%
		47	4	139	0.58%	20.23%
		48	0	139	0%	20.23%
		49	0	139	0%	20.23%
MA	5	50	2	141	0.29%	20.52%
		51	2	143	0.29%	20.82%
		52	4	147	0.58%	21.40%
		53	2	149	0.29%	21.69%
		54	2	151	0.29%	21.98%
		55	4	155	0.58%	22.56%
		56	5	160	0.73%	23.29%
		57	5	165	0.73%	24.02%
		58	3	168	0.44%	24.45%
		59	4	172	0.58%	25.04%
		60	4	176	0.58%	25.62%
		61	2	178	0.29%	25.91%
		62	2	180	0.29%	26.20%
		63	4	184	0.58%	26.78%
		64	4	188	0.58%	27.37%
		65	5	193	0.73%	28.09%
		66	2	195	0.29%	28.38%
		67	2	197	0.29%	28.68%

Table 52
Mathematics Grade 5 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	3	200	0.44%	29.11%
		69	2	202	0.29%	29.40%
		70	2	204	0.29%	29.69%
		71	2	206	0.29%	29.99%
		72	3	209	0.44%	30.42%
		73	4	213	0.58%	31.00%
		74	1	214	0.15%	31.15%
		75	8	222	1.16%	32.31%
		76	2	224	0.29%	32.61%
		77	0	224	0%	32.61%
		78	2	226	0.29%	32.90%
		79	1	227	0.15%	33.04%
		80	4	231	0.58%	33.62%
		81	2	233	0.29%	33.92%
		82	4	237	0.58%	34.50%
		83	7	244	1.02%	35.52%
MA	5	84	4	248	0.58%	36.10%
		85	1	249	0.15%	36.24%
		86	2	251	0.29%	36.54%
		87	3	254	0.44%	36.97%
		88	2	256	0.29%	37.26%
		89	3	259	0.44%	37.70%
		90	4	263	0.58%	38.28%
		91	4	267	0.58%	38.86%
		92	8	275	1.16%	40.03%
		93	2	277	0.29%	40.32%
		94	9	286	1.31%	41.63%
		95	9	295	1.31%	42.94%
		96	2	297	0.29%	43.23%
		97	5	302	0.73%	43.96%
		98	3	305	0.44%	44.40%
		99	1	306	0.15%	44.54%
		100	5	311	0.73%	45.27%
		101	8	319	1.16%	46.43%

Table 52
Mathematics Grade 5 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	3	322	0.44%	46.87%
		103	7	329	1.02%	47.89%
		104	4	333	0.58%	48.47%
		105	7	340	1.02%	49.49%
		106	7	347	1.02%	50.51%
		107	6	353	0.87%	51.38%
		108	4	357	0.58%	51.97%
		109	3	360	0.44%	52.40%
		110	5	365	0.73%	53.13%
		111	5	370	0.73%	53.86%
		112	7	377	1.02%	54.88%
		113	14	391	2.04%	56.91%
		114	2	393	0.29%	57.21%
		115	6	399	0.87%	58.08%
		116	4	403	0.58%	58.66%
		117	2	405	0.29%	58.95%
MA	5	118	5	410	0.73%	59.68%
		119	7	417	1.02%	60.70%
		120	11	428	1.60%	62.30%
		121	5	433	0.73%	63.03%
		122	2	435	0.29%	63.32%
		123	6	441	0.87%	64.19%
		124	3	444	0.44%	64.63%
		125	6	450	0.87%	65.50%
		126	3	453	0.44%	65.94%
		127	4	457	0.58%	66.52%
		128	8	465	1.16%	67.69%
		129	11	476	1.60%	69.29%
		130	5	481	0.73%	70.01%
		131	8	489	1.16%	71.18%
		132	10	499	1.46%	72.63%
		133	2	501	0.29%	72.93%
		134	2	503	0.29%	73.22%
		135	6	509	0.87%	74.09%

Table 52
Mathematics Grade 5 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		136	17	526	2.47%	76.56%
		137	6	532	0.87%	77.44%
		138	5	537	0.73%	78.17%
		139	10	547	1.46%	79.62%
		140	7	554	1.02%	80.64%
		141	4	558	0.58%	81.22%
		142	8	566	1.16%	82.39%
		143	9	575	1.31%	83.70%
		144	10	585	1.46%	85.15%
		145	10	595	1.46%	86.61%
		146	11	606	1.60%	88.21%
		147	8	614	1.16%	89.37%
		148	5	619	0.73%	90.10%
		149	4	623	0.58%	90.68%
		150	8	631	1.16%	91.85%
		151	7	638	1.02%	92.87%
MA	5	152	6	644	0.87%	93.74%
		153	3	647	0.44%	94.18%
		154	1	648	0.15%	94.32%
		155	2	650	0.29%	94.61%
		156	0	650	0%	94.61%
		157	4	654	0.58%	95.20%
		158	7	661	1.02%	96.22%
		159	0	661	0%	96.22%
		160	0	661	0%	96.22%
		161	2	663	0.29%	96.51%
		162	2	665	0.29%	96.80%
		163	2	667	0.29%	97.09%
		164	3	670	0.44%	97.53%
		165	3	673	0.44%	97.96%
		166	2	675	0.29%	98.25%
		167	3	678	0.44%	98.69%
		168	5	683	0.73%	99.42%
		169	2	685	0.29%	99.71%

Table 52
Mathematics Grade 5 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
MA	5	170	1	686	0.15%	99.85%
		171	1	687	0.15%	100%

Table 53
Mathematics Grade 6 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	20	20	3.06%	3.06%
		1	2	22	0.31%	3.36%
		2	3	25	0.46%	3.82%
		3	6	31	0.92%	4.74%
		4	0	31	0%	4.74%
		5	1	32	0.15%	4.89%
		6	1	33	0.15%	5.05%
		7	3	36	0.46%	5.50%
		8	3	39	0.46%	5.96%
		9	2	41	0.31%	6.27%
		10	0	41	0%	6.27%
		11	3	44	0.46%	6.73%
		12	4	48	0.61%	7.34%
		13	1	49	0.15%	7.49%
		14	1	50	0.15%	7.65%
		15	5	55	0.76%	8.41%
MA	6	16	2	57	0.31%	8.72%
		17	1	58	0.15%	8.87%
		18	3	61	0.46%	9.33%
		19	3	64	0.46%	9.79%
		20	1	65	0.15%	9.94%
		21	0	65	0%	9.94%
		22	3	68	0.46%	10.40%
		23	1	69	0.15%	10.55%
		24	3	72	0.46%	11.01%
		25	2	74	0.31%	11.31%
		26	2	76	0.31%	11.62%
		27	2	78	0.31%	11.93%
		28	2	80	0.31%	12.23%
		29	4	84	0.61%	12.84%
		30	4	88	0.61%	13.46%
		31	1	89	0.15%	13.61%
		32	1	90	0.15%	13.76%
		33	2	92	0.31%	14.07%

Table 53
Mathematics Grade 6 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	4	96	0.61%	14.68%
		35	5	101	0.76%	15.44%
		36	4	105	0.61%	16.06%
		37	2	107	0.31%	16.36%
		38	1	108	0.15%	16.51%
		39	2	110	0.31%	16.82%
		40	3	113	0.46%	17.28%
		41	3	116	0.46%	17.74%
		42	3	119	0.46%	18.20%
		43	2	121	0.31%	18.50%
		44	4	125	0.61%	19.11%
		45	2	127	0.31%	19.42%
		46	6	133	0.92%	20.34%
		47	3	136	0.46%	20.80%
		48	6	142	0.92%	21.71%
		49	2	144	0.31%	22.02%
MA	6	50	2	146	0.31%	22.32%
		51	5	151	0.76%	23.09%
		52	5	156	0.76%	23.85%
		53	7	163	1.07%	24.92%
		54	3	166	0.46%	25.38%
		55	4	170	0.61%	25.99%
		56	3	173	0.46%	26.45%
		57	2	175	0.31%	26.76%
		58	4	179	0.61%	27.37%
		59	3	182	0.46%	27.83%
		60	7	189	1.07%	28.90%
		61	4	193	0.61%	29.51%
		62	5	198	0.76%	30.28%
		63	5	203	0.76%	31.04%
		64	6	209	0.92%	31.96%
		65	3	212	0.46%	32.42%
		66	3	215	0.46%	32.87%
		67	3	218	0.46%	33.33%

Table 53
Mathematics Grade 6 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	3	221	0.46%	33.79%
		69	6	227	0.92%	34.71%
		70	5	232	0.76%	35.47%
		71	4	236	0.61%	36.09%
		72	6	242	0.92%	37.00%
		73	1	243	0.15%	37.16%
		74	5	248	0.76%	37.92%
		75	5	253	0.76%	38.69%
		76	5	258	0.76%	39.45%
		77	4	262	0.61%	40.06%
		78	4	266	0.61%	40.67%
		79	5	271	0.76%	41.44%
		80	1	272	0.15%	41.59%
		81	4	276	0.61%	42.20%
		82	8	284	1.22%	43.43%
		83	3	287	0.46%	43.88%
MA	6	84	7	294	1.07%	44.95%
		85	4	298	0.61%	45.57%
		86	3	301	0.46%	46.02%
		87	5	306	0.76%	46.79%
		88	9	315	1.38%	48.17%
		89	5	320	0.76%	48.93%
		90	3	323	0.46%	49.39%
		91	9	332	1.38%	50.76%
		92	6	338	0.92%	51.68%
		93	2	340	0.31%	51.99%
		94	10	350	1.53%	53.52%
		95	2	352	0.31%	53.82%
		96	3	355	0.46%	54.28%
		97	8	363	1.22%	55.50%
		98	6	369	0.92%	56.42%
		99	1	370	0.15%	56.57%
		100	4	374	0.61%	57.19%
		101	8	382	1.22%	58.41%

Table 53
Mathematics Grade 6 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	10	392	1.53%	59.94%
		103	6	398	0.92%	60.86%
		104	9	407	1.38%	62.23%
		105	7	414	1.07%	63.30%
		106	9	423	1.38%	64.68%
		107	14	437	2.14%	66.82%
		108	9	446	1.38%	68.20%
		109	10	456	1.53%	69.72%
		110	10	466	1.53%	71.25%
		111	10	476	1.53%	72.78%
		112	9	485	1.38%	74.16%
		113	14	499	2.14%	76.30%
		114	8	507	1.22%	77.52%
		115	11	518	1.68%	79.20%
		116	17	535	2.60%	81.80%
		117	11	546	1.68%	83.49%
MA	6	118	6	552	0.92%	84.40%
		119	10	562	1.53%	85.93%
		120	6	568	0.92%	86.85%
		121	3	571	0.46%	87.31%
		122	10	581	1.53%	88.84%
		123	15	596	2.29%	91.13%
		124	5	601	0.76%	91.90%
		125	10	611	1.53%	93.43%
		126	7	618	1.07%	94.50%
		127	8	626	1.22%	95.72%
		128	5	631	0.76%	96.48%
		129	9	640	1.38%	97.86%
		130	2	642	0.31%	98.17%
		131	5	647	0.76%	98.93%
		132	4	651	0.61%	99.54%
		133	1	652	0.15%	99.69%
		134	1	653	0.15%	99.85%
		135	0	653	0.00%	99.85%

Table 53
Mathematics Grade 6 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		136	0	653	0%	99.85%
MA	6	137	0	653	0%	99.85%
		138	1	654	0.15%	100%

Table 54
Mathematics Grade 7 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	20	20	3.20%	3.20%
		1	1	21	0.16%	3.36%
		2	1	22	0.16%	3.52%
		3	4	26	0.64%	4.16%
		4	2	28	0.32%	4.48%
		5	3	31	0.48%	4.96%
		6	5	36	0.80%	5.76%
		7	2	38	0.32%	6.08%
		8	2	40	0.32%	6.40%
		9	4	44	0.64%	7.04%
		10	0	44	0%	7.04%
		11	3	47	0.48%	7.52%
		12	3	50	0.48%	8.00%
		13	1	51	0.16%	8.16%
		14	5	56	0.80%	8.96%
		15	3	59	0.48%	9.44%
MA	7	16	3	62	0.48%	9.92%
		17	1	63	0.16%	10.08%
		18	5	68	0.80%	10.88%
		19	1	69	0.16%	11.04%
		20	0	69	0%	11.04%
		21	3	72	0.48%	11.52%
		22	2	74	0.32%	11.84%
		23	0	74	0.00%	11.84%
		24	2	76	0.32%	12.16%
		25	4	80	0.64%	12.80%
		26	3	83	0.48%	13.28%
		27	0	83	0%	13.28%
		28	4	87	0.64%	13.92%
		29	4	91	0.64%	14.56%
		30	5	96	0.80%	15.36%
		31	2	98	0.32%	15.68%
		32	2	100	0.32%	16.00%
		33	4	104	0.64%	16.64%

Table 54
Mathematics Grade 7 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	10	114	1.60%	18.24%
		35	4	118	0.64%	18.88%
		36	1	119	0.16%	19.04%
		37	7	126	1.12%	20.16%
		38	1	127	0.16%	20.32%
		39	3	130	0.48%	20.80%
		40	6	136	0.96%	21.76%
		41	4	140	0.64%	22.40%
		42	3	143	0.48%	22.88%
		43	4	147	0.64%	23.52%
		44	5	152	0.80%	24.32%
		45	4	156	0.64%	24.96%
		46	3	159	0.48%	25.44%
		47	6	165	0.96%	26.40%
		48	3	168	0.48%	26.88%
		49	7	175	1.12%	28.00%
MA	7	50	5	180	0.80%	28.80%
		51	6	186	0.96%	29.76%
		52	5	191	0.80%	30.56%
		53	6	197	0.96%	31.52%
		54	1	198	0.16%	31.68%
		55	4	202	0.64%	32.32%
		56	11	213	1.76%	34.08%
		57	3	216	0.48%	34.56%
		58	1	217	0.16%	34.72%
		59	3	220	0.48%	35.20%
		60	7	227	1.12%	36.32%
		61	5	232	0.80%	37.12%
		62	5	237	0.80%	37.92%
		63	5	242	0.80%	38.72%
		64	2	244	0.32%	39.04%
		65	12	256	1.92%	40.96%
		66	5	261	0.80%	41.76%
		67	1	262	0.16%	41.92%

Table 54
Mathematics Grade 7 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	3	265	0.48%	42.40%
		69	4	269	0.64%	43.04%
		70	7	276	1.12%	44.16%
		71	8	284	1.28%	45.44%
		72	1	285	0.16%	45.60%
		73	2	287	0.32%	45.92%
		74	7	294	1.12%	47.04%
		75	3	297	0.48%	47.52%
		76	7	304	1.12%	48.64%
		77	7	311	1.12%	49.76%
		78	6	317	0.96%	50.72%
		79	8	325	1.28%	52.00%
		80	16	341	2.56%	54.56%
		81	8	349	1.28%	55.84%
		82	2	351	0.32%	56.16%
		83	6	357	0.96%	57.12%
MA	7	84	6	363	0.96%	58.08%
		85	4	367	0.64%	58.72%
		86	7	374	1.12%	59.84%
		87	8	382	1.28%	61.12%
		88	7	389	1.12%	62.24%
		89	11	400	1.76%	64.00%
		90	6	406	0.96%	64.96%
		91	7	413	1.12%	66.08%
		92	5	418	0.80%	66.88%
		93	2	420	0.32%	67.20%
		94	7	427	1.12%	68.32%
		95	7	434	1.12%	69.44%
		96	4	438	0.64%	70.08%
		97	4	442	0.64%	70.72%
		98	8	450	1.28%	72.00%
		99	4	454	0.64%	72.64%
		100	9	463	1.44%	74.08%
		101	7	470	1.12%	75.20%

Table 54
Mathematics Grade 7 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	8	478	1.28%	76.48%
		103	6	484	0.96%	77.44%
		104	15	499	2.40%	79.84%
		105	8	507	1.28%	81.12%
		106	10	517	1.60%	82.72%
		107	6	523	0.96%	83.68%
		108	8	531	1.28%	84.96%
		109	3	534	0.48%	85.44%
		110	9	543	1.44%	86.88%
		111	6	549	0.96%	87.84%
		112	1	550	0.16%	88.00%
		113	5	555	0.80%	88.80%
		114	7	562	1.12%	89.92%
		115	9	571	1.44%	91.36%
		116	4	575	0.64%	92.00%
MA	7	117	4	579	0.64%	92.64%
		118	8	587	1.28%	93.92%
		119	5	592	0.80%	94.72%
		120	5	597	0.80%	95.52%
		121	6	603	0.96%	96.48%
		122	4	607	0.64%	97.12%
		123	4	611	0.64%	97.76%
		124	4	615	0.64%	98.40%
		125	2	617	0.32%	98.72%
		126	3	620	0.48%	99.20%
		127	1	621	0.16%	99.36%
		128	1	622	0.16%	99.52%
		129	2	624	0.32%	99.84%
		130	0	624	0%	99.84%
		131	1	625	0.16%	100%
		132	0	625	0%	100%

Table 55
Mathematics Grade 8 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	19	19	3.23%	3.23%
		1	2	21	0.34%	3.57%
		2	2	23	0.34%	3.90%
		3	5	28	0.85%	4.75%
		4	1	29	0.17%	4.92%
		5	1	30	0.17%	5.09%
		6	3	33	0.51%	5.60%
		7	2	35	0.34%	5.94%
		8	1	36	0.17%	6.11%
		9	3	39	0.51%	6.62%
		10	2	41	0.34%	6.96%
		11	3	44	0.51%	7.47%
		12	2	46	0.34%	7.81%
		13	2	48	0.34%	8.15%
		14	2	50	0.34%	8.49%
		15	2	52	0.34%	8.83%
MA	8	16	2	54	0.34%	9.17%
		17	1	55	0.17%	9.34%
		18	4	59	0.68%	10.02%
		19	0	59	0%	10.02%
		20	4	63	0.68%	10.70%
		21	1	64	0.17%	10.87%
		22	0	64	0%	10.87%
		23	1	65	0.17%	11.04%
		24	0	65	0%	11.04%
		25	5	70	0.85%	11.88%
		26	3	73	0.51%	12.39%
		27	1	74	0.17%	12.56%
		28	2	76	0.34%	12.90%
		29	1	77	0.17%	13.07%
		30	1	78	0.17%	13.24%
		31	2	80	0.34%	13.58%
		32	0	80	0%	13.58%
		33	3	83	0.51%	14.09%

Table 55
Mathematics Grade 8 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	3	86	0.51%	14.60%
		35	1	87	0.17%	14.77%
		36	2	89	0.34%	15.11%
		37	4	93	0.68%	15.79%
		38	1	94	0.17%	15.96%
		39	2	96	0.34%	16.30%
		40	5	101	0.85%	17.15%
		41	3	104	0.51%	17.66%
		42	5	109	0.85%	18.51%
		43	3	112	0.51%	19.02%
		44	1	113	0.17%	19.19%
		45	6	119	1.02%	20.20%
		46	2	121	0.34%	20.54%
		47	5	126	0.85%	21.39%
		48	2	128	0.34%	21.73%
		49	7	135	1.19%	22.92%
MA	8	50	4	139	0.68%	23.60%
		51	2	141	0.34%	23.94%
		52	5	146	0.85%	24.79%
		53	3	149	0.51%	25.30%
		54	1	150	0.17%	25.47%
		55	5	155	0.85%	26.32%
		56	2	157	0.34%	26.66%
		57	3	160	0.51%	27.16%
		58	4	164	0.68%	27.84%
		59	5	169	0.85%	28.69%
		60	9	178	1.53%	30.22%
		61	3	181	0.51%	30.73%
		62	3	184	0.51%	31.24%
		63	3	187	0.51%	31.75%
		64	5	192	0.85%	32.60%
		65	3	195	0.51%	33.11%
		66	2	197	0.34%	33.45%
		67	1	198	0.17%	33.62%

Table 55
Mathematics Grade 8 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	6	204	1.02%	34.63%
		69	7	211	1.19%	35.82%
		70	6	217	1.02%	36.84%
		71	1	218	0.17%	37.01%
		72	2	220	0.34%	37.35%
		73	4	224	0.68%	38.03%
		74	6	230	1.02%	39.05%
		75	3	233	0.51%	39.56%
		76	4	237	0.68%	40.24%
		77	0	237	0%	40.24%
		78	4	241	0.68%	40.92%
		79	6	247	1.02%	41.94%
		80	11	258	1.87%	43.80%
		81	4	262	0.68%	44.48%
		82	3	265	0.51%	44.99%
		83	6	271	1.02%	46.01%
MA	8	84	3	274	0.51%	46.52%
		85	4	278	0.68%	47.20%
		86	9	287	1.53%	48.73%
		87	5	292	0.85%	49.58%
		88	4	296	0.68%	50.25%
		89	2	298	0.34%	50.59%
		90	2	300	0.34%	50.93%
		91	11	311	1.87%	52.80%
		92	5	316	0.85%	53.65%
		93	5	321	0.85%	54.50%
		94	7	328	1.19%	55.69%
		95	6	334	1.02%	56.71%
		96	4	338	0.68%	57.39%
		97	5	343	0.85%	58.23%
		98	6	349	1.02%	59.25%
		99	7	356	1.19%	60.44%
		100	4	360	0.68%	61.12%
		101	8	368	1.36%	62.48%

Table 55
Mathematics Grade 8 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	11	379	1.87%	64.35%
		103	3	382	0.51%	64.86%
		104	10	392	1.70%	66.55%
		105	9	401	1.53%	68.08%
		106	8	409	1.36%	69.44%
		107	3	412	0.51%	69.95%
		108	7	419	1.19%	71.14%
		109	5	424	0.85%	71.99%
		110	7	431	1.19%	73.17%
		111	12	443	2.04%	75.21%
		112	7	450	1.19%	76.40%
		113	9	459	1.53%	77.93%
		114	5	464	0.85%	78.78%
		115	2	466	0.34%	79.12%
		116	5	471	0.85%	79.97%
		117	5	476	0.85%	80.81%
MA	8	118	3	479	0.51%	81.32%
		119	8	487	1.36%	82.68%
		120	5	492	0.85%	83.53%
		121	3	495	0.51%	84.04%
		122	5	500	0.85%	84.89%
		123	7	507	1.19%	86.08%
		124	5	512	0.85%	86.93%
		125	6	518	1.02%	87.95%
		126	7	525	1.19%	89.13%
		127	9	534	1.53%	90.66%
		128	5	539	0.85%	91.51%
		129	7	546	1.19%	92.70%
		130	4	550	0.68%	93.38%
		131	9	559	1.53%	94.91%
		132	0	559	0%	94.91%
		133	4	563	0.68%	95.59%
		134	1	564	0.17%	95.76%
		135	4	568	0.68%	96.43%

Table 55
Mathematics Grade 8 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		136	8	576	1.36%	97.79%
		137	6	582	1.02%	98.81%
		138	2	584	0.34%	99.15%
		139	1	585	0.17%	99.32%
		140	3	588	0.51%	99.83%
MA	8	141	0	588	0%	100%
		142	0	588	0%	100%
		143	0	588	0%	100%
		144	0	588	0%	100%
		145	0	588	0%	100%
		146	0	588	0%	100%
		147	1	589	0%	100%

Table 56
Mathematics Grade 9 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	20	20	3.84%	3.84%
		1	0	20	0%	3.84%
		2	1	21	0.19%	4.03%
		3	1	22	0.19%	4.22%
		4	1	23	0.19%	4.41%
		5	1	24	0.19%	4.61%
		6	2	26	0.38%	4.99%
		7	1	27	0.19%	5.18%
		8	3	30	0.58%	5.76%
		9	4	34	0.77%	6.53%
		10	6	40	1.15%	7.68%
		11	4	44	0.77%	8.45%
		12	5	49	0.96%	9.40%
		13	0	49	0%	9.40%
		14	1	50	0.19%	9.60%
		15	2	52	0.38%	9.98%
MA	9	16	4	56	0.77%	10.75%
		17	1	57	0.19%	10.94%
		18	2	59	0.38%	11.32%
		19	1	60	0.19%	11.52%
		20	4	64	0.77%	12.28%
		21	2	66	0.38%	12.67%
		22	0	66	0%	12.67%
		23	1	67	0.19%	12.86%
		24	4	71	0.77%	13.63%
		25	2	73	0.38%	14.01%
		26	4	77	0.77%	14.78%
		27	2	79	0.38%	15.16%
		28	2	81	0.38%	15.55%
		29	2	83	0.38%	15.93%
		30	2	85	0.38%	16.31%
		31	1	86	0.19%	16.51%
		32	0	86	0%	16.51%
		33	5	91	0.96%	17.47%

Table 56
Mathematics Grade 9 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	3	94	0.58%	18.04%
		35	3	97	0.58%	18.62%
		36	2	99	0.38%	19.00%
		37	3	102	0.58%	19.58%
		38	5	107	0.96%	20.54%
		39	2	109	0.38%	20.92%
		40	4	113	0.77%	21.69%
		41	1	114	0.19%	21.88%
		42	12	126	2.30%	24.18%
		43	4	130	0.77%	24.95%
		44	2	132	0.38%	25.34%
		45	3	135	0.58%	25.91%
		46	1	136	0.19%	26.10%
		47	4	140	0.77%	26.87%
		48	3	143	0.58%	27.45%
		49	6	149	1.15%	28.60%
MA	9	50	3	152	0.58%	29.17%
		51	0	152	0%	29.17%
		52	4	156	0.77%	29.94%
		53	5	161	0.96%	30.90%
		54	6	167	1.15%	32.05%
		55	2	169	0.38%	32.44%
		56	1	170	0.19%	32.63%
		57	4	174	0.77%	33.40%
		58	4	178	0.77%	34.17%
		59	2	180	0.38%	34.55%
		60	8	188	1.54%	36.08%
		61	2	190	0.38%	36.47%
		62	4	194	0.77%	37.24%
		63	0	194	0%	37.24%
		64	5	199	0.96%	38.20%
		65	2	201	0.38%	38.58%
		66	5	206	0.96%	39.54%
		67	6	212	1.15%	40.69%

Table 56
Mathematics Grade 9 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	3	215	0.58%	41.27%
		69	4	219	0.77%	42.03%
		70	9	228	1.73%	43.76%
		71	4	232	0.77%	44.53%
		72	1	233	0.19%	44.72%
		73	7	240	1.34%	46.07%
		74	2	242	0.38%	46.45%
		75	3	245	0.58%	47.02%
		76	3	248	0.58%	47.60%
		77	6	254	1.15%	48.75%
		78	5	259	0.96%	49.71%
		79	6	265	1.15%	50.86%
		80	5	270	0.96%	51.82%
		81	5	275	0.96%	52.78%
		82	9	284	1.73%	54.51%
		83	5	289	0.96%	55.47%
MA	9	84	6	295	1.15%	56.62%
		85	7	302	1.34%	57.97%
		86	8	310	1.54%	59.50%
		87	5	315	0.96%	60.46%
		88	4	319	0.77%	61.23%
		89	7	326	1.34%	62.57%
		90	6	332	1.15%	63.72%
		91	5	337	0.96%	64.68%
		92	3	340	0.58%	65.26%
		93	11	351	2.11%	67.37%
		94	3	354	0.58%	67.95%
		95	9	363	1.73%	69.67%
		96	8	371	1.54%	71.21%
		97	6	377	1.15%	72.36%
		98	2	379	0.38%	72.74%
		99	6	385	1.15%	73.90%
		100	6	391	1.15%	75.05%
		101	4	395	0.77%	75.82%

Table 56
Mathematics Grade 9 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	6	401	1.15%	76.97%
		103	7	408	1.34%	78.31%
		104	3	411	0.58%	78.89%
		105	7	418	1.34%	80.23%
		106	2	420	0.38%	80.61%
		107	6	426	1.15%	81.77%
		108	5	431	0.96%	82.73%
		109	6	437	1.15%	83.88%
		110	8	445	1.54%	85.41%
		111	5	450	0.96%	86.37%
		112	7	457	1.34%	87.72%
		113	9	466	1.73%	89.44%
		114	2	468	0.38%	89.83%
		115	5	473	0.96%	90.79%
		116	2	475	0.38%	91.17%
		117	3	478	0.58%	91.75%
MA	9	118	5	483	0.96%	92.71%
		119	1	484	0.19%	92.90%
		120	5	489	0.96%	93.86%
		121	2	491	0.38%	94.24%
		122	7	498	1.34%	95.59%
		123	4	502	0.77%	96.35%
		124	3	505	0.58%	96.93%
		125	1	506	0.19%	97.12%
		126	1	507	0.19%	97.31%
		127	3	510	0.58%	97.89%
		128	1	511	0.19%	98.08%
		129	2	513	0.38%	98.46%
		130	1	514	0.19%	98.66%
		131	4	518	0.77%	99.42%
		132	1	519	0.19%	99.62%
		133	0	519	0%	99.62%
		134	0	519	0%	99.62%
		135	0	519	0%	99.62%

Table 56
Mathematics Grade 9 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		136	0	519	0%	99.62%
		137	1	520	0.19%	99.81%
		138	1	521	0.19%	100%
		139	0	521	0%	100%
MA	9	140	0	521	0%	100%
		141	0	521	0%	100%
		142	0	521	0%	100%
		143	0	521	0%	100%
		144	0	521	0%	100%

Table 57
Mathematics Grade 10 Raw Score Frequency Distributions

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		0	24	24	4.36%	4.36%
		1	1	25	0.18%	4.54%
		2	2	27	0.36%	4.90%
		3	2	29	0.36%	5.26%
		4	0	29	0%	5.26%
		5	1	30	0.18%	5.44%
		6	3	33	0.54%	5.99%
		7	1	34	0.18%	6.17%
		8	0	34	0%	6.17%
		9	1	35	0.18%	6.35%
		10	1	36	0.18%	6.53%
		11	0	36	0%	6.53%
		12	1	37	0.18%	6.72%
		13	1	38	0.18%	6.90%
		14	1	39	0.18%	7.08%
		15	3	42	0.54%	7.62%
MA	10	16	0	42	0%	7.62%
		17	1	43	0.18%	7.80%
		18	3	46	0.54%	8.35%
		19	2	48	0.36%	8.71%
		20	3	51	0.54%	9.26%
		21	1	52	0.18%	9.44%
		22	1	53	0.18%	9.62%
		23	4	57	0.73%	10.34%
		24	4	61	0.73%	11.07%
		25	1	62	0.18%	11.25%
		26	3	65	0.54%	11.80%
		27	3	68	0.54%	12.34%
		28	2	70	0.36%	12.70%
		29	2	72	0.36%	13.07%
		30	6	78	1.09%	14.16%
		31	1	79	0.18%	14.34%
		32	5	84	0.91%	15.25%
		33	1	85	0.18%	15.43%

Table 57
Mathematics Grade 10 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		34	4	89	0.73%	16.15%
		35	1	90	0.18%	16.33%
		36	3	93	0.54%	16.88%
		37	0	93	0%	16.88%
		38	3	96	0.54%	17.42%
		39	4	100	0.73%	18.15%
		40	5	105	0.91%	19.06%
		41	2	107	0.36%	19.42%
		42	3	110	0.54%	19.96%
		43	3	113	0.54%	20.51%
		44	1	114	0.18%	20.69%
		45	4	118	0.73%	21.42%
		46	3	121	0.54%	21.96%
		47	4	125	0.73%	22.69%
		48	8	133	1.45%	24.14%
		49	4	137	0.73%	24.86%
MA	10	50	3	140	0.54%	25.41%
		51	3	143	0.54%	25.95%
		52	3	146	0.54%	26.50%
		53	3	149	0.54%	27.04%
		54	2	151	0.36%	27.40%
		55	8	159	1.45%	28.86%
		56	7	166	1.27%	30.13%
		57	4	170	0.73%	30.85%
		58	6	176	1.09%	31.94%
		59	2	178	0.36%	32.30%
		60	2	180	0.36%	32.67%
		61	2	182	0.36%	33.03%
		62	3	185	0.54%	33.58%
		63	3	188	0.54%	34.12%
		64	3	191	0.54%	34.66%
		65	5	196	0.91%	35.57%
		66	6	202	1.09%	36.66%
		67	10	212	1.81%	38.48%

Table 57
Mathematics Grade 10 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		68	6	218	1.09%	39.56%
		69	4	222	0.73%	40.29%
		70	3	225	0.54%	40.83%
		71	3	228	0.54%	41.38%
		72	5	233	0.91%	42.29%
		73	10	243	1.81%	44.10%
		74	6	249	1.09%	45.19%
		75	1	250	0.18%	45.37%
		76	4	254	0.73%	46.10%
		77	6	260	1.09%	47.19%
		78	6	266	1.09%	48.28%
		79	4	270	0.73%	49.00%
		80	2	272	0.36%	49.36%
		81	2	274	0.36%	49.73%
		82	7	281	1.27%	51.00%
		83	10	291	1.81%	52.81%
MA	10	84	4	295	0.73%	53.54%
		85	4	299	0.73%	54.26%
		86	5	304	0.91%	55.17%
		87	8	312	1.45%	56.62%
		88	4	316	0.73%	57.35%
		89	7	323	1.27%	58.62%
		90	2	325	0.36%	58.98%
		91	4	329	0.73%	59.71%
		92	6	335	1.09%	60.80%
		93	6	341	1.09%	61.89%
		94	9	350	1.63%	63.52%
		95	6	356	1.09%	64.61%
		96	3	359	0.54%	65.15%
		97	3	362	0.54%	65.70%
		98	6	368	1.09%	66.79%
		99	7	375	1.27%	68.06%
		100	5	380	0.91%	68.97%
		101	5	385	0.91%	69.87%

Table 57
Mathematics Grade 10 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		102	5	390	0.91%	70.78%
		103	2	392	0.36%	71.14%
		104	10	402	1.81%	72.96%
		105	7	409	1.27%	74.23%
		106	6	415	1.09%	75.32%
		107	4	419	0.73%	76.04%
		108	6	425	1.09%	77.13%
		109	8	433	1.45%	78.58%
		110	8	441	1.45%	80.04%
		111	6	447	1.09%	81.13%
		112	6	453	1.09%	82.21%
		113	4	457	0.73%	82.94%
		114	10	467	1.81%	84.75%
		115	3	470	0.54%	85.30%
		116	3	473	0.54%	85.84%
		117	7	480	1.27%	87.11%
MA	10	118	8	488	1.45%	88.57%
		119	3	491	0.54%	89.11%
		120	6	497	1.09%	90.20%
		121	1	498	0.18%	90.38%
		122	3	501	0.54%	90.93%
		123	2	503	0.36%	91.29%
		124	3	506	0.54%	91.83%
		125	2	508	0.36%	92.20%
		126	3	511	0.54%	92.74%
		127	4	515	0.73%	93.47%
		128	2	517	0.36%	93.83%
		129	4	521	0.73%	94.56%
		130	3	524	0.54%	95.10%
		131	4	528	0.73%	95.83%
		132	0	528	0%	95.83%
		133	3	531	0.54%	96.37%
		134	6	537	1.09%	97.46%
		135	1	538	0.18%	97.64%

Table 57
Mathematics Grade 10 Raw Score Frequency Distributions (continued)

Content	Grade	Raw Score	Frequency	Cumulative Frequency	Percent	Cumulative Percent
		136	1	539	0.18%	97.82%
		137	3	542	0.54%	98.37%
		138	1	543	0.18%	98.55%
		139	2	545	0.36%	98.91%
		140	0	545	0%	98.91%
		141	2	547	0.36%	99.27%
		142	1	548	0.18%	99.46%
		143	0	548	0%	99.46%
		144	0	548	0%	99.46%
		145	1	549	0.18%	99.64%
MA	10	146	0	549	0%	99.64%
		147	0	549	0%	99.64%
		148	0	549	0%	99.64%
		149	0	549	0%	100%
		150	0	549	0%	100%
		151	1	550	0.18%	100%
		152	1	551	0.18%	100%
		153	0	551	0%	100%
		154	0	551	0%	100%
		155	0	551	0%	100%
		156	0	551	0%	100%

Table 58
Cut Scores and Percent of Students in Each Proficiency Level

Content	Grade	N	Cut Scores				Percent of Students in Each Proficiency Level					
			Exploring	Emerging	Developing	Novice	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
RD	3	589	31	56	79	95	15.45%	29.20%	37.01%	14.60%	3.74%	18.34%
	4	689	32	53	76	93	16.55%	26.12%	31.06%	18.58%	7.69%	26.27%
	5	685	26	52	72	93	12.55%	27.30%	19.56%	31.09%	9.49%	40.58%
	6	655	25	53	78	97	10.08%	21.53%	29.47%	33.74%	5.19%	38.93%
	7	630	27	50	68	88	13.49%	23.17%	24.13%	32.38%	6.83%	39.21%
	8	590	29	53	70	91	16.44%	27.63%	22.37%	26.61%	6.95%	33.56%
	9	518	24	48	71	89	12.36%	23.94%	27.22%	24.90%	11.58%	36.49%
	10	549	23	43	64	80	11.11%	29.33%	26.05%	20.77%	12.75%	33.52%
WR	3	590	18	48	78	96	12.88%	27.29%	35.59%	21.53%	2.71%	24.24%
	4	684	19	46	78	94	13.16%	21.20%	36.99%	21.64%	7.02%	28.65%
	5	690	19	50	78	93	13.33%	21.01%	31.74%	24.64%	9.28%	33.91%
	6	650	18	51	78	93	10.46%	18.31%	27.23%	32.00%	12.00%	44.00%
	7	626	23	57	80	94	14.22%	23.80%	22.52%	25.24%	14.22%	39.46%
	8	589	27	62	80	90	16.13%	24.11%	22.58%	22.07%	15.11%	37.18%
	9	518	21	60	79	91	13.13%	25.10%	24.13%	25.48%	12.16%	37.64%
	10	546	21	56	81	93	10.99%	23.63%	33.70%	21.06%	10.62%	31.68%

Table 58
Cut Scores and Percent of Students in Each Proficiency Level (continued)

Content	Grade	N	Cut Scores				Percent of Students in Each Proficiency Level					
			Exploring	Emerging	Developing	Novice	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
MA	3	583	19	63	93	108	6.69%	23.16%	26.07%	20.93%	23.16%	44.08%
	4	679	13	72	99	119	6.33%	27.98%	23.71%	30.63%	11.34%	41.97%
	5	687	41	82	115	150	16.89%	17.03%	23.29%	33.48%	9.32%	42.79%
	6	654	28	60	92	113	11.93%	15.90%	22.94%	23.39%	25.84%	49.24%
	7	625	29	61	89	110	13.92%	22.40%	25.92%	23.20%	14.56%	37.76%
	8	589	30	76	107	129	13.07%	26.49%	29.88%	22.07%	8.49%	30.56%
	9	521	29	63	97	116	15.55%	21.69%	33.97%	19.58%	9.21%	28.79%
	10	551	29	67	104	125	12.70%	23.96%	34.48%	20.69%	8.17%	28.86%

Table 59
Total Group Statistics, Including Reliability

Content	Grade	Sample Size	Raw Score		N Students at Max Score	N Students at Min Score	Coefficient Alpha	Standard Error of Measurement
			Mean	SD				
RD	3	589	56.96	24.04	0	11	0.92	6.96
	4	689	57.10	25.43	1	25	0.93	6.92
	5	685	58.44	27.03	3	18	0.93	6.91
	6	655	64.00	26.33	4	17	0.94	6.66
	7	630	56.03	24.47	0	18	0.92	7.02
	8	590	55.10	25.94	1	16	0.92	7.26
	9	518	56.32	26.50	0	18	0.93	6.92
	10	549	50.76	24.30	1	22	0.91	7.34
WR	3	590	54.19	27.24	1	12	0.92	7.73
	4	684	56.63	28.76	0	24	0.93	7.80
	5	690	59.19	28.74	1	22	0.93	7.53
	6	650	63.96	28.40	5	22	0.93	7.49
	7	626	62.54	30.52	1	23	0.94	7.54
	8	589	61.63	29.11	0	20	0.93	7.57
	9	518	60.97	29.01	0	22	0.93	7.44
	10	546	61.47	27.92	0	22	0.92	7.71
MA	3	583	78.95	33.09	1	10	0.94	8.13
	4	679	80.56	35.88	3	23	0.95	8.27
	5	687	96.02	46.85	1	16	0.95	10.13
	6	654	81.34	37.65	1	20	0.94	8.83
	7	625	71.42	34.99	0	20	0.94	8.79
	8	589	80.94	38.60	1	19	0.94	9.34
	9	521	71.86	35.84	0	20	0.93	9.37
	10	551	76.47	37.00	0	24	0.93	9.71

Table 60
Classification Consistency and Accuracy

Content	Grade	Consistency				Accuracy		
		Prob of Correct Classification (PC)	Prob of Correct Classification By Chance (Chance)	Kappa	Prob of Misclassification (PM)	Prob of Accuracy (PA)	Prob of False Positive Error (FP)	Prob of False Negative Error (FN)
RD	3	0.67	0.26	0.56	0.33	0.77	0.12	0.11
	4	0.65	0.24	0.55	0.35	0.75	0.14	0.12
	5	0.66	0.23	0.55	0.34	0.75	0.15	0.11
	6	0.70	0.27	0.59	0.30	0.79	0.11	0.10
	7	0.64	0.24	0.52	0.36	0.74	0.15	0.10
	8	0.64	0.23	0.53	0.36	0.73	0.16	0.11
	9	0.64	0.22	0.54	0.36	0.74	0.14	0.13
	10	0.60	0.21	0.50	0.40	0.71	0.15	0.15
WR	3	0.68	0.27	0.56	0.32	0.77	0.11	0.12
	4	0.64	0.24	0.53	0.36	0.74	0.15	0.11
	5	0.63	0.24	0.52	0.37	0.74	0.16	0.11
	6	0.61	0.24	0.49	0.39	0.72	0.17	0.11
	7	0.61	0.21	0.50	0.39	0.69	0.20	0.11
	8	0.57	0.21	0.46	0.43	0.64	0.23	0.13
	9	0.59	0.22	0.47	0.41	0.69	0.18	0.12
	10	0.60	0.24	0.47	0.40	0.70	0.16	0.14
MA	3	0.63	0.22	0.53	0.37	0.73	0.13	0.14
	4	0.67	0.26	0.55	0.33	0.77	0.15	0.08
	5	0.68	0.24	0.58	0.32	0.77	0.15	0.08
	6	0.64	0.21	0.54	0.36	0.74	0.11	0.15
	7	0.63	0.21	0.53	0.37	0.72	0.13	0.15
	8	0.67	0.24	0.57	0.33	0.77	0.13	0.10
	9	0.63	0.23	0.53	0.37	0.73	0.16	0.11
	10	0.65	0.24	0.54	0.35	0.75	0.15	0.10

Table 61
Level of Independence—Total Percentage by Level across All Items

Content	Total Items	Level of Independence			
		1	2	3	4
RD	170,513	4.60%	2.93%	4.83%	87.62%
WR	144,250	4.98%	2.92%	5.08%	87.00%
MA	174,819	6.32%	4.53%	8.57%	80.56%

Table 62
Reliability of Levels of Independence

Content	Grade	Independent versus Not Independent	All Levels of Independence
RD	3	0.97	0.98
	4	0.98	0.99
	5	0.98	0.99
	6	0.98	0.99
	7	0.99	0.99
	8	0.98	0.99
	9	0.98	0.99
	10	0.98	0.99
WR	3	0.96	0.98
	4	0.97	0.99
	5	0.98	0.99
	6	0.97	0.99
	7	0.98	0.99
	8	0.98	0.99
	9	0.98	0.99
	10	0.97	0.99
MA	3	0.95	0.97
	4	0.97	0.98
	5	0.97	0.99
	6	0.97	0.98
	7	0.97	0.99
	8	0.97	0.99
	9	0.97	0.99
	10	0.97	0.99

Table 63
Percentages of Test Administrator Coding Errors

Content	Grade	Level 1 and correct answer	Levels 2 - 4 and no response
RD	3	0.41%	0.24%
	4	0.17%	0.16%
	5	0.14%	0.07%
	6	0.05%	0.06%
	7	0.11%	0.02%
	8	0.07%	0.00%
	9	0.53%	0.21%
	10	0.48%	0.18%
WR	3	0.30%	0.24%
	4	0.16%	0.25%
	5	0.11%	0.04%
	6	0.04%	0.16%
	7	0.16%	0.03%
	8	0.04%	0.03%
	9	0.57%	0.20%
	10	0.40%	0.20%
MA	3	0.35%	0.33%
	4	0.19%	0.24%
	5	0.13%	0.18%
	6	0.04%	0.10%
	7	0.14%	0.07%
	8	0.06%	0.09%
	9	0.42%	0.29%
	10	0.39%	0.24%

Table 64
Reading Average Level of Independence and Earned Proficiency Level

Content	Grade	Average Level of Independence	Percent of Students in Each Proficiency Level					
			Inconclusive	Exploring	Emerging	Developing	Novice	Developing and Novice
RD	3	3.5-4.0	7.57%	29.28%	41.83%	16.93%	4.38%	21.31%
		3.0-3.4	31.71%	48.78%	17.07%	2.44%	0%	2.44%
		2.5-2.9	78.95%	15.79%	5.26%	0%	0%	0%
		2.0-2.4	77.78%	22.22%	0%	0%	0%	0%
		1.5-1.9	100%	0%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%
	4	3.5-4.0	8.05%	26.17%	35.40%	21.48%	8.89%	30.37%
		3.0-3.4	44.12%	47.06%	8.82%	0%	0%	0%
		2.5-2.9	63.16%	36.84%	0%	0%	0%	0%
		2.0-2.4	88.89%	11.11%	0%	0%	0%	0%
		1.5-1.9	100%	0%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%
	5	3.5-4.0	4.77%	26.41%	21.81%	35.95%	11.07%	47.02%
		3.0-3.4	25.64%	53.85%	15.38%	5.13%	0%	5.13%
		2.5-2.9	46.67%	53.33%	0%	0%	0%	0%
		2.0-2.4	75.00%	25.00%	0%	0%	0%	0%
		1.5-1.9	100%	0%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%
	6	3.5-4.0	2.56%	21.67%	32.25%	37.71%	5.80%	43.51%
		3.0-3.4	45.00%	40.00%	15.00%	0%	0%	0%
		2.5-2.9	56.25%	37.50%	6.25%	0%	0%	0%
		2.0-2.4	100%	0%	0%	0%	0%	0%
		1.5-1.9	100%	0%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%
7	3.5-4.0	5.37%	23.97%	26.65%	36.31%	7.69%	44.00%	
	3.0-3.4	55.56%	22.22%	16.67%	5.56%	0%	5.56%	
	2.5-2.9	50.00%	50.00%	0%	0%	0%	0%	
	2.0-2.4	66.67%	33.33%	0%	0%	0%	0%	
	1.5-1.9	100%	0%	0%	0%	0%	0%	
	1.0-1.4	100%	0%	0%	0%	0%	0%	
8	3.5-4.0	9.31%	29.42%	24.39%	29.24%	7.64%	36.88%	
	3.0-3.4	54.55%	36.36%	9.09%	0%	0%	0%	
	2.5-2.9	90.00%	10.00%	0%	0%	0%	0%	
	2.0-2.4	100%	0%	0%	0%	0%	0%	
	1.5-1.9	100%	0%	0%	0%	0%	0%	
	1.0-1.4	100%	0%	0%	0%	0%	0%	

Table 64
Reading Average Level of Independence and Earned Proficiency Level
(continued)

Content	Grade	Average Level of Independence	Percent of Students in Each Proficiency Level					Developing and Novice
			Inconclusive	Exploring	Emerging	Developing	Novice	
RD	9	3.5-4.0	4.98%	24.24%	29.87%	27.92%	12.99%	40.91%
		3.0-3.4	28.57%	57.14%	14.29%	0%	0%	0%
		2.5-2.9	85.71%	0%	14.29%	0%	0%	0%
		2.0-2.4	63.64%	36.36%	0%	0%	0%	0%
		1.5-1.9	100%	0%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%
	10	3.5-4.0	3.86%	30.89%	28.05%	22.97%	14.23%	37.20%
		3.0-3.4	26.67%	33.33%	33.33%	6.67%	0%	6.67%
		2.5-2.9	66.67%	33.33%	0%	0%	0%	0%
		2.0-2.4	66.67%	33.33%	0%	0%	0%	0%
		1.5-1.9	100%	0%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%

Table 65
Writing Average Level of Independence and Earned Proficiency Level

Content	Grade	Average Level of Independence	Percent of Students in Each Proficiency Level					
			Inconclusive	Exploring	Emerging	Developing	Novice	Developing and Novice
WR	3	3.5-4.0	5.80%	26.60%	39.40%	25.00%	3.20%	28.20%
		3.0-3.4	21.43%	42.86%	30.95%	4.76%	0%	4.76%
		2.5-2.9	50.00%	50.00%	0%	0%	0%	0%
		2.0-2.4	76.47%	23.53%	0%	0%	0%	0%
		1.5-1.9	90.00%	10.00%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%
	4	3.5-4.0	5.74%	19.76%	41.39%	25.00%	8.11%	33.11%
		3.0-3.4	26.67%	46.67%	26.67%	0%	0%	0%
		2.5-2.9	47.62%	52.38%	0%	0%	0%	0%
		2.0-2.4	66.67%	33.33%	0%	0%	0%	0%
		1.5-1.9	100%	0%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%
	5	3.5-4.0	4.23%	20.81%	35.70%	28.43%	10.83%	39.26%
		3.0-3.4	46.88%	31.25%	15.63%	6.25%	0%	6.25%
		2.5-2.9	52.63%	31.58%	16%	0%	0%	0%
		2.0-2.4	62.50%	38%	0%	0%	0%	0%
		1.5-1.9	100%	0%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%
	6	3.5-4.0	4.25%	17.69%	29.59%	35.20%	13.27%	48.47%
		3.0-3.4	23.81%	57.14%	14.29%	4.76%	0%	4.76%
		2.5-2.9	40.00%	60.00%	0%	0%	0%	0%
		2.0-2.4	100%	0%	0%	0%	0%	0%
		1.5-1.9	100%	0%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%
7	3.5-4.0	5.66%	24.09%	25.18%	28.83%	16.24%	45.07%	
	3.0-3.4	36.36%	50.00%	13.64%	0%	0%	0%	
	2.5-2.9	58.33%	41.67%	0%	0%	0%	0%	
	2.0-2.4	91.67%	8.33%	0%	0%	0%	0%	
	1.5-1.9	100%	0%	0%	0%	0%	0%	
	1.0-1.4	100%	0%	0%	0%	0%	0%	
8	3.5-4.0	8.11%	25.85%	24.91%	24.34%	16.79%	41.13%	
	3.0-3.4	68.42%	21.05%	5.26%	5.26%	0%	5.26%	
	2.5-2.9	66.67%	33.33%	0%	0%	0%	0%	
	2.0-2.4	100%	0%	0%	0%	0%	0%	
	1.5-1.9	100%	0%	0%	0%	0%	0%	
	1.0-1.4	100%	0%	0%	0%	0%	0%	

Table 65
Writing Average Level of Independence and Earned Proficiency Level (continued)

Content	Grade	Average Level of Independence	Percent of Students in Each Proficiency Level					
			Inconclusive	Exploring	Emerging	Developing	Novice	Developing and Novice
WR	9	3.5-4.0	5.45%	25.27%	26.80%	28.76%	13.73%	42.49%
		3.0-3.4	43.75%	43.75%	12.50%	0%	0%	0%
		2.5-2.9	57.14%	42.86%	0%	0%	0%	0%
		2.0-2.4	66.67%	33.33%	0%	0%	0%	0%
		1.5-1.9	100%	0%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%
	10	3.5-4.0	4.72%	23.00%	36.76%	23.61%	11.91%	35.52%
		3.0-3.4	20.83%	58.33%	20.83%	0%	0%	0%
		2.5-2.9	50.00%	50.00%	0%	0%	0%	0%
		2.0-2.4	100%	0%	0%	0%	0%	0%
		1.5-1.9	100%	0%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%

Table 66
Mathematics Average Level of Independence and Earned Proficiency Level

Content	Grade	Average Level of Independence	Percent of Students in Each Proficiency Level					
			Inconclusive	Exploring	Emerging	Developing	Novice	Developing and Novice
MA	3	3.5-4.0	0.43%	14.87%	29.31%	26.29%	29.09%	55.38%
		3.0-3.4	7.14%	66.07%	26.79%	0%	0%	0%
		2.5-2.9	16.67%	79.17%	4.17%	0%	0%	0%
		2.0-2.4	52.63%	47.37%	0%	0%	0%	0%
		1.5-1.9	88.89%	11.11%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%
	4	3.5-4.0	0.18%	20.68%	28.06%	37.23%	13.85%	51.08%
		3.0-3.4	6.25%	81.25%	10.42%	2.08%	0%	2.08%
		2.5-2.9	14.29%	85.71%	0%	0%	0%	0%
		2.0-2.4	25.00%	75.00%	0%	0%	0%	0%
		1.5-1.9	72.73%	27.27%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%
	5	3.5-4.0	4.35%	16.49%	26.45%	41.12%	11.59%	52.71%
		3.0-3.4	40.00%	32.00%	22.00%	6.00%	0%	6.00%
		2.5-2.9	61.76%	29.41%	8.82%	0%	0%	0%
		2.0-2.4	100%	0%	0%	0%	0%	0%
		1.5-1.9	100%	0%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%
	6	3.5-4.0	2.25%	12.36%	25.09%	28.65%	31.65%	60.30%
		3.0-3.4	21.43%	50.00%	28.57%	0%	0%	0%
		2.5-2.9	52.63%	47.37%	0%	0%	0%	0%
		2.0-2.4	100%	0%	0%	0%	0%	0%
		1.5-1.9	93%	7%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%
7	3.5-4.0	3.05%	22.52%	29.58%	27.48%	17.37%	44.85%	
	3.0-3.4	27.27%	48.48%	21.21%	3.03%	0%	3.03%	
	2.5-2.9	75.00%	25.00%	0%	0%	0%	0%	
	2.0-2.4	88.89%	11.11%	0%	0%	0%	0%	
	1.5-1.9	100%	0%	0%	0%	0%	0%	
	1.0-1.4	100%	0%	0%	0%	0%	0%	
8	3.5-4.0	2.82%	25.75%	35.21%	26.16%	10.06%	36.22%	
	3.0-3.4	34.29%	62.86%	2.86%	0%	0%	0%	
	2.5-2.9	64.29%	35.71%	0%	0%	0%	0%	
	2.0-2.4	87.50%	12.50%	0%	0%	0%	0%	
	1.5-1.9	100%	0%	0%	0%	0%	0%	
	1.0-1.4	100%	0%	0%	0%	0%	0%	

Table 66
Mathematics Average Level of Independence and Earned Proficiency Level
(continued)

Content	Grade	Average Level of Independence	Percent of Students in Each Proficiency Level					Developing and Novice
			Inconclusive	Exploring	Emerging	Developing	Novice	
MA	9	3.5-4.0	4.18%	20.42%	40.60%	23.67%	11.14%	34.81%
		3.0-3.4	37.50%	59.38%	3.13%	0%	0%	0%
		2.5-2.9	54.55%	36.36%	9.09%	0%	0%	0%
		2.0-2.4	88.24%	11.76%	0%	0%	0%	0%
		1.5-1.9	100%	0%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%
	10	3.5-4.0	3.49%	22.66%	39.87%	24.18%	9.80%	33.98%
		3.0-3.4	26.47%	52.94%	11.76%	8.82%	0%	8.82%
		2.5-2.9	47.83%	39.13%	13.04%	0%	0%	0%
		2.0-2.4	80.00%	20.00%	0%	0%	0%	0%
		1.5-1.9	100%	0%	0%	0%	0%	0%
		1.0-1.4	100%	0%	0%	0%	0%	0%

Table 67
Reading Longitudinal Total Group Means and Standard Deviations

Content	Grade	2014 Raw Score		2013 Raw Score		2012 Raw Score		2011 Raw Score		2010 Raw Score		2009 Raw Score		2008 Raw Score	
		Mean	SD												
RD	3	56.96	24.04	57.07	25.07	56.59	26.37	58.83	25.41	58.92	25.97	60.54	26.14	61.69	25.59
	4	57.10	25.43	55.59	26.44	57.73	26.26	58.76	26.29	59.55	25.60	60.72	26.58	61.14	25.52
	5	58.44	27.03	62.15	26.51	58.70	27.92	62.59	26.96	61.85	27.76	63.22	27.18	61.51	27.30
	6	64.00	26.33	65.00	25.77	65.35	25.71	64.66	27.01	64.60	26.74	64.54	26.59	63.25	28.20
	7	56.03	24.47	58.17	23.33	57.51	24.34	58.17	22.72	56.25	24.50	56.28	24.86	55.20	25.07
	8	55.10	25.94	56.79	24.76	56.62	26.07	53.72	26.06	54.60	27.09	54.03	26.31	56.31	26.35
	9	56.32	26.50	54.67	26.49	53.98	26.71	53.68	26.51	54.29	27.29	54.39	27.07	55.39	26.70
	10	50.76	24.30	51.18	24.31	50.62	24.03	49.32	24.48	49.87	24.74	52.53	24.85	48.80	24.97

Content	Grade	Difference 2014-2013 Raw Score		Difference 2013-2012 Raw Score		Difference 2012-2011 Raw Score		Difference 2011-2010 Raw Score		Difference 2010-2009 Raw Score		Difference 2009-2008 Raw Score	
		Mean	SD										
RD	3	-0.11	-1.03	0.49	-1.31	-2.25	0.96	-0.09	-0.56	-1.62	-0.16	-1.14	0.55
	4	1.51	-1.01	-2.14	0.18	-1.03	-0.03	-0.80	0.69	-1.17	-0.98	-0.42	1.06
	5	-3.71	0.53	3.45	-1.41	-3.89	0.96	0.74	-0.80	-1.37	0.58	1.71	-0.12
	6	-1.01	0.56	-0.35	0.06	0.70	-1.30	0.06	0.27	0.06	0.15	1.29	-1.61
	7	-2.15	1.13	0.66	-1.01	-0.66	1.62	1.93	-1.78	-0.04	-0.36	1.08	-0.21
	8	-1.69	1.18	0.17	-1.31	2.90	0	-0.88	-1.03	0.57	0.78	-2.28	-0.04
	9	1.64	0.01	0.70	-0.21	0.30	0.20	-0.61	-0.79	-0.10	0.23	-1.00	0.37
	10	-0.42	-0.01	0.56	0.28	1.30	-0.45	-0.55	-0.26	-2.67	-0.12	3.73	-0.12

Table 68
Writing Longitudinal Total Group Means and Standard Deviations

Content	Grade	2014		2013		2012		2011		2010		2009		2008	
		Raw Score													
		Mean	SD												
WR	3	54.19	27.24	53.88	28.20	53.11	28.47	55.56	28.67	57.11	28.44	58.34	27.93	60.05	27.69
	4	56.63	28.76	55.29	28.88	57.81	28.88	57.11	29.04	60.78	27.82	61.13	28.85	61.92	27.87
	5	59.19	28.74	63.24	27.94	59.09	28.96	63.52	27.43	63.27	29.23	64.20	27.91	63.05	28.11
	6	63.96	28.40	63.86	28.75	65.05	28.19	63.46	29.28	65.27	28.18	64.44	28.51	62.65	29.81
	7	62.54	30.52	65.47	28.93	63.88	30.49	65.17	28.40	63.67	30.16	64.58	29.31	61.57	31.16
	8	61.63	29.11	63.41	27.84	62.67	28.26	60.59	29.51	60.40	29.56	59.63	29.38	61.87	28.34
	9	60.97	29.01	60.21	28.86	58.86	29.09	58.25	28.52	58.26	29.68	60.19	27.87	60.50	28.04
	10	61.47	27.92	60.69	28.07	60.09	27.45	58.76	28.49	60.23	27.54	62.23	27.60	58.15	27.71

Content	Grade	Difference 2014-2013		Difference 2013-2012		Difference 2012-2011		Difference 2011-2010		Difference 2010-2009		Difference 2009-2008	
		Raw Score											
		Mean	SD										
WR	3	0.32	-0.97	0.77	-0.27	-2.45	-0.19	-1.55	0.23	-1.23	0.51	-1.71	0.24
	4	1.34	-0.12	-2.52	0.00	0.70	-0.16	-3.67	1.22	-0.35	-1.03	-0.79	0.97
	5	-4.04	0.80	4.15	-1.01	-4.44	1.53	0.25	-1.80	-0.93	1.33	1.15	-0.20
	6	0.10	-0.35	-1.19	0.55	1.58	-1.08	-1.81	1.10	0.83	-0.34	1.78	-1.30
	7	-2.93	1.58	1.59	-1.55	-1.30	2.09	1.50	-1.76	-0.91	0.84	3.01	-1.84
	8	-1.78	1.26	0.74	-0.42	2.08	-1.25	0.19	-0.04	0.76	0.18	-2.24	1.04
	9	0.76	0.15	1.35	-0.24	0.60	0.57	-0.01	-1.16	-1.93	1.81	-0.30	-0.17
	10	0.78	-0.15	0.60	0.62	1.33	-1.04	-1.47	0.96	-2.00	-0.06	4.08	-0.11

Table 69
Mathematics Longitudinal Total Group Means and Standard Deviations

Content	Grade	2014 Raw Score		2013 Raw Score		2012 Raw Score		2011 Raw Score		2010 Raw Score		2009 Raw Score		2008 Raw Score		2007 Raw Score	
		Mean	SD														
MA	3	78.95	33.09	78.53	35.39	75.91	35.63	78.47	35.22	80.27	34.65	81.33	34.79	82.14	33.75	84.24	31.56
	4	80.56	35.88	78.31	36.28	79.26	36.48	79.03	36.37	83.16	34.66	82.98	35.91	84.97	34.87	85.88	35.50
	5	96.02	46.85	102.19	46.65	96.31	46.92	101.52	45.57	100.69	46.51	104.89	45.69	100.95	45.42	102.30	42.79
	6	81.34	37.65	82.13	36.63	84.20	37.89	81.64	37.47	83.66	37.12	81.96	36.76	79.99	40.58	79.28	38.15
	7	71.42	34.99	76.40	33.90	74.03	35.56	76.31	33.46	73.06	34.76	73.16	35.38	72.11	37.24	75.18	33.78
	8	80.94	38.60	84.02	37.67	84.53	39.31	82.15	39.69	80.52	39.55	78.28	39.66	82.94	39.03	79.29	37.54
	9	71.86	35.84	71.00	35.77	70.45	36.19	69.34	35.87	69.52	36.46	71.98	35.41	71.80	35.54	68.76	35.54
	10	76.47	37.00	75.15	37.00	73.35	35.56	71.42	35.03	75.12	36.21	76.23	36.83	72.23	35.80	69.47	37.11

Content	Grade	Difference 2014-2013 Raw Score		Difference 2013-2012 Raw Score		Difference 2012-2011 Raw Score		Difference 2011-2010 Raw Score		Difference 2010-2009 Raw Score		Difference 2009-2008 Raw Score		Difference 2008-2007 Raw Score	
		Mean	SD												
MA	3	0.42	-2.30	2.62	-0.24	-2.56	0.42	-1.81	0.56	-1.05	-0.14	-0.81	1.04	-2.10	2.19
	4	2.25	-0.40	-0.95	-0.20	0.23	0.11	-4.13	1.71	0.18	-1.25	-1.98	1.04	-0.92	-0.63
	5	-6.17	0.19	5.88	-0.26	-5.20	1.35	0.83	-0.94	-4.20	0.81	3.94	0.28	-1.35	2.63
	6	-0.79	1.02	-2.07	-1.26	2.56	0.42	-2.02	0.35	1.70	0.36	1.97	-3.82	0.70	2.43
	7	-4.98	1.09	2.36	-1.66	-2.28	2.10	3.26	-1.30	-0.10	-0.63	1.05	-1.86	-3.08	3.46
	8	-3.08	0.92	-0.51	-1.64	2.38	-0.38	1.63	0.14	2.24	-0.11	-4.66	0.63	3.65	1.49
	9	0.86	0.06	0.56	-0.42	1.10	0.32	-0.17	-0.59	-2.47	1.05	0.18	-0.13	3.05	0
	10	1.32	0.00	1.80	1.44	1.92	0.53	-3.70	-1.18	-1.11	-0.62	4.00	1.03	2.76	-1.32

Table 70
Reading Longitudinal Subgroup Participation

			Grade 3						
Content	Variable	Subgroup	2014	2013	2012	2011	2010	2009	2008
RD	Gender	Female	30.90%	34.52%	35.77%	36.19%	35.06%	32.95%	34.58%
		Male	68.59%	65.18%	64.08%	63.65%	64.94%	66.62%	65.42%
	Primary Disability	Autism	21.56%	17.26%	20.55%	18.25%	16.27%	14.16%	12.77%
		Deaf-Blind	0%	0%	0%	0.16%	0%	0.29%	0%
		Emotional Disability	0.51%	0.30%	0.61%	0.78%	2.07%	0.87%	1.56%
		Hearing Disability	0.51%	0.30%	0.46%	0%	1.48%	0.87%	2.18%
		Limited Intellectual Capacity	25.98%	25.60%	25.42%	24.18%	23.52%	27.17%	21.18%
		Multiple Disabilities	32.94%	36.46%	31.51%	26.83%	28.40%	23.84%	24.14%
		Physical Disability	11.71%	12.05%	12.48%	17.16%	12.57%	13.73%	12.62%
		Specific Learning Disability	2.04%	3.57%	3.96%	6.24%	7.40%	10.26%	15.11%
		Speech/Language Disability	1.53%	2.98%	3.96%	4.68%	6.66%	7.66%	9.50%
		Traumatic Brain Injury	0.34%	1.34%	0.76%	1.56%	0.89%	1.01%	0.62%
		Visual Disability	0.51%	0%	0.15%	0.16%	0.74%	0.15%	0.31%
		Orthopedic impairment	0%	-	-	-	-	-	-
		Other health impairment	2.04%	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	0.85%	0.74%	1.07%	1.25%	-	-	-
		Asian	2.38%	1.93%	3.65%	2.18%	-	-	-
		Black/ African American	7.47%	7.44%	5.78%	6.08%	-	-	-
		Hispanic/ Latino	37.18%	38.10%	35.46%	37.13%	-	-	-
		White	47.54%	46.28%	50.08%	49.45%	-	-	-
Native Hawaiian/ Other Pacific Islander		1.02%	0.30%	0.15%	0%	-	-	-	
Two or More Races		3.23%	4.91%	3.65%	3.90%	-	-	-	

Table 70
Reading Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 3					
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
RD	Gender	Female	-3.62%	-1.25%	-0.42%	1.13%	2.11%	-1.63%
		Male	3.41%	1.10%	0.43%	-1.29%	-1.68%	1.20%
	Primary Disability	Autism	4.30%	-3.29%	2.30%	1.98%	2.11%	1.39%
		Deaf-Blind	0%	0%	-0.16%	0.16%	-0.29%	0.29%
		Emotional Disability	0.21%	-0.31%	-0.17%	-1.29%	1.20%	-0.69%
		Hearing Disability	0.21%	-0.16%	0.46%	-1.48%	0.61%	-1.31%
		Limited Intellectual Capacity	0.38%	0.18%	1.24%	0.66%	-3.65%	5.98%
		Multiple Disabilities	-3.52%	4.95%	4.68%	-1.57%	4.56%	-0.30%
		Physical Disability	-0.34%	-0.43%	-4.68%	4.59%	-1.15%	1.11%
		Specific Learning Disability	-1.53%	-0.39%	-2.28%	-1.16%	-2.86%	-4.85%
		Speech/Language Disability	-1.45%	-0.98%	-0.72%	-1.98%	-1.00%	-1.84%
		Traumatic Brain Injury	-1.00%	0.58%	-0.80%	0.67%	-0.12%	0.39%
		Visual Disability	0.51%	-0.15%	-0.01%	-0.58%	0.60%	-0.17%
		Orthopedic impairment	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	0.11%	-0.33%	-0.18%	-	-	-
		Asian	0.45%	-1.72%	1.47%	-	-	-
		Black/ African American	0.03%	1.66%	-0.30%	-	-	-
		Hispanic/ Latino	-0.92%	2.64%	-1.67%	-	-	-
		White	1.26%	-3.80%	0.63%	-	-	-
Native Hawaiian/ Other Pacific Islander		0.72%	0.15%	0.15%	-	-	-	
Two or More Races		-1.68%	1.26%	-0.25%	-	-	-	

Table 70
Reading Longitudinal Subgroup Participation (continued)

			Grade 4						
Content	Variable	Subgroup	2014	2013	2012	2011	2010	2009	2008
RD	Gender	Female	34.98%	36.73%	35.97%	35.32%	34.10%	36.80%	37.76%
		Male	64.88%	63.27%	63.71%	64.36%	65.90%	62.89%	61.77%
	Primary Disability	Autism	16.69%	21.09%	17.12%	16.61%	15.14%	12.42%	10.11%
		Deaf-Blind	0%	0%	0.32%	0%	0.15%	0%	0.16%
		Emotional Disability	0.15%	0.59%	0%	2.42%	0.15%	1.40%	2.37%
		Hearing Disability	0.29%	0.29%	0.16%	0.32%	1.38%	1.40%	1.26%
		Limited Intellectual Capacity	27.43%	27.43%	26.31%	26.61%	29.36%	23.45%	25.59%
		Multiple Disabilities	39.04%	33.19%	32.49%	31.61%	25.84%	27.48%	28.91%
		Physical Disability	9.87%	10.18%	14.58%	11.94%	13.61%	12.73%	11.37%
		Specific Learning Disability	3.19%	3.39%	5.39%	6.94%	9.48%	13.20%	13.90%
		Speech/Language Disability	1.02%	2.65%	2.06%	1.77%	3.67%	6.52%	4.58%
		Traumatic Brain Injury	1.16%	1.03%	1.11%	1.13%	1.07%	0.93%	0.95%
		Visual Disability	0.15%	0.15%	0.16%	0.48%	0.15%	0.31%	0.32%
		Orthopedic impairment	0%	-	-	-	-	-	-
		Other health impairment	0.87%	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	1.31%	1.33%	1.11%	1.45%	-	-	-
		Asian	2.18%	3.69%	2.22%	2.58%	-	-	-
		Black/ African American	8.13%	6.49%	6.02%	5.97%	-	-	-
		Hispanic/ Latino	38.03%	37.02%	36.29%	35.00%	-	-	-
		White	45.86%	48.23%	50.08%	51.77%	-	-	-
Pacific Islander		0.44%	0.15%	0.16%	0.16%	-	-	-	
	Two or More Races	3.92%	3.10%	3.80%	2.90%	-	-	-	

Table 70
Reading Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 4					
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
RD	Gender	Female	-1.75%	0.76%	0.65%	1.23%	-2.70%	-0.96%
		Male	1.61%	-0.44%	-0.64%	-1.55%	3.01%	1.12%
	Primary Disability	Autism	-4.40%	3.97%	0.51%	1.48%	2.72%	2.31%
		Deaf-Blind	0%	-0.32%	0.32%	-0.15%	0.15%	-0.16%
		Emotional Disability	-0.44%	0.59%	-2.42%	2.27%	-1.25%	-0.97%
		Hearing Disability	0%	0.13%	-0.16%	-1.05%	-0.02%	0.13%
		Limited Intellectual Capacity	0%	1.12%	-0.30%	-2.75%	5.91%	-2.15%
		Multiple Disabilities	5.85%	0.70%	0.88%	5.77%	-1.64%	-1.43%
		Physical Disability	-0.31%	-4.40%	2.65%	-1.67%	0.88%	1.36%
		Specific Learning Disability	-0.20%	-2.00%	-1.55%	-2.55%	-3.72%	-0.70%
		Speech/Language Disability	-1.63%	0.59%	0.29%	-1.90%	-2.85%	1.94%
		Traumatic Brain Injury	0.13%	-0.08%	-0.02%	0.06%	0.14%	-0.02%
		Visual Disability	0%	-0.01%	-0.32%	0.33%	-0.16%	-0.01%
		Orthopedic impairment	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	-0.02%	0.22%	-0.34%	-	-	-
		Asian	-1.51%	1.47%	-0.36%	-	-	-
		Black/ African American	1.64%	0.47%	0.05%	-	-	-
		Hispanic/ Latino	1.01%	0.73%	1.29%	-	-	-
		White	-2.37%	-1.85%	-1.69%	-	-	-
Pacific Islander		0.29%	-0.01%	0%	-	-	-	
	Two or More Races	0.82%	-0.70%	0.90%	-	-	-	

Table 70
Reading Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 5						
			2014	2013	2012	2011	2010	2009	2008
RD	Gender	Female	36.06%	37.37%	37.64%	35.94%	39.10%	39.71%	38.95%
		Male	63.80%	62.48%	61.87%	63.61%	60.58%	59.97%	61.05%
	Primary Disability	Autism	19.42%	16.29%	16.64%	14.59%	12.28%	11.44%	8.07%
		Deaf-Blind	0%	0.15%	0%	0.15%	0%	0.16%	0.35%
		Emotional Disability	0.44%	0.45%	0.48%	0.60%	1.13%	2.12%	1.58%
		Hearing Disability	0.15%	0.15%	0.32%	0.75%	1.62%	1.47%	1.75%
		Limited Intellectual Capacity	26.86%	30.19%	30.53%	31.13%	26.33%	28.43%	31.75%
		Multiple Disabilities	37.23%	33.48%	32.79%	30.38%	29.08%	28.27%	29.12%
		Physical Disability	7.88%	11.06%	11.15%	11.88%	11.79%	10.62%	9.30%
		Specific Learning Disability	3.21%	5.08%	5.01%	7.37%	11.15%	11.60%	12.63%
		Speech/Language Disability	1.31%	1.20%	1.62%	1.96%	5.49%	3.76%	4.39%
		Traumatic Brain Injury	1.31%	1.79%	0.65%	0.90%	0.65%	1.14%	1.05%
		Visual Disability	0.15%	0.15%	0.48%	0%	0.16%	0.65%	0%
		Orthopedic impairment	0.29%	-	-	-	-	-	-
		Other health impairment	1.61%	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	0.88%	1.35%	1.29%	0.90%	-	-	-
		Asian	3.36%	2.39%	1.78%	2.11%	-	-	-
		Black/ African American	6.72%	5.68%	6.62%	7.97%	-	-	-
		Hispanic/ Latino	37.37%	37.82%	32.47%	37.29%	-	-	-
		White	48.47%	49.18%	53.80%	48.72%	-	-	-
Native Hawaiian/ Other Pacific Islander		0.44%	0%	0.16%	0.30%	-	-	-	
Two or More Races		2.63%	3.59%	3.39%	2.26%	-	-	-	

Table 70
Reading Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 5					
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
RD	Gender	Female	-1.31%	-0.27%	1.70%	-3.16%	-0.61%	0.76%
		Male	1.32%	0.61%	-1.74%	3.03%	0.61%	-1.09%
	Primary Disability	Autism	3.13%	-0.35%	2.05%	2.31%	0.84%	3.37%
		Deaf-Blind	-0.15%	0.15%	-0.15%	0.15%	-0.16%	-0.19%
		Emotional Disability	-0.01%	-0.03%	-0.12%	-0.53%	-0.99%	0.55%
		Hearing Disability	0%	-0.17%	-0.43%	-0.86%	0.15%	-0.28%
		Limited Intellectual Capacity	-3.33%	-0.34%	-0.60%	4.80%	-2.10%	-3.32%
		Multiple Disabilities	3.75%	0.69%	2.41%	1.30%	0.81%	-0.86%
		Physical Disability	-3.18%	-0.09%	-0.73%	0.09%	1.17%	1.32%
		Specific Learning Disability	-1.87%	0.07%	-2.36%	-3.78%	-0.45%	-1.03%
		Speech/Language Disability	0.11%	-0.42%	-0.34%	-3.54%	1.74%	-0.63%
		Traumatic Brain Injury	-0.48%	1.14%	-0.25%	0.26%	-0.50%	0.09%
		Visual Disability	0%	-0.33%	0.48%	-0.16%	-0.49%	0.65%
		Orthopedic impairment	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	-0.47%	0.06%	0.39%	-	-	-
		Asian	0.97%	0.61%	-0.33%	-	-	-
		Black/ African American	1.04%	-0.94%	-1.35%	-	-	-
		Hispanic/ Latino	-0.45%	5.35%	-4.82%	-	-	-
		White	-0.71%	-4.62%	5.08%	-	-	-
Native Hawaiian/ Other Pacific Islander		0.44%	-0.16%	-0.14%	-	-	-	
Two or More Races		-0.96%	0.20%	1.13%	-	-	-	

Table 70
Reading Longitudinal Subgroup Participation (continued)

			Grade 6						
Content	Variable	Subgroup	2014	2013	2012	2011	2010	2009	2008
RD	Gender	Female	37.56%	38.18%	36.55%	37.10%	38.97%	38.03%	40.36%
		Male	61.98%	61.36%	63.12%	62.90%	61.03%	61.61%	58.92%
	Primary Disability	Autism	16.18%	16.23%	13.85%	14.69%	13.97%	10.60%	9.19%
		Deaf-Blind	0%	0.15%	0%	0%	0.35%	0.37%	0.18%
		Emotional Disability	0%	0.93%	0.48%	1.32%	0.52%	1.28%	1.26%
		Hearing Disability	0.15%	0.31%	0.32%	0.19%	1.21%	2.19%	1.26%
		Limited Intellectual Capacity	29.92%	33.85%	33.01%	32.39%	30.69%	34.55%	27.39%
		Multiple Disabilities	38.17%	33.85%	32.53%	32.02%	31.38%	29.43%	34.41%
		Physical Disability	8.09%	7.88%	13.85%	10.92%	8.45%	6.95%	8.65%
		Specific Learning Disability	3.51%	3.86%	3.54%	4.90%	9.48%	10.24%	13.15%
		Speech/Language Disability	0.61%	1.55%	0.97%	2.45%	1.90%	2.38%	2.88%
		Traumatic Brain Injury	1.98%	0.77%	0.97%	1.13%	1.38%	1.46%	0.90%
		Visual Disability	0.15%	0.62%	0.16%	0%	0.69%	0.18%	0.18%
		Orthopedic impairment	0%	-	-	-	-	-	-
		Other health impairment	0.76%	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	0.76%	1.39%	0.97%	1.13%	-	-	-
		Asian	2.44%	1.70%	1.77%	1.51%	-	-	-
		Black/ African American	6.41%	7.57%	6.44%	7.91%	-	-	-
		Hispanic/ Latino	39.08%	32.30%	37.04%	33.90%	-	-	-
		White	46.41%	52.55%	50.08%	53.11%	-	-	-
Native Hawaiian/ Other Pacific Islander		0.31%	0.15%	0.32%	0.38%	-	-	-	
Two or More Races		4.27%	3.71%	3.06%	2.07%	-	-	-	

Table 70
Reading Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 6					
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
RD	Gender	Female	-0.62%	1.63%	-0.55%	-1.87%	0.94%	-2.33%
		Male	0.62%	-1.76%	0.22%	1.87%	-0.58%	2.69%
	Primary Disability	Autism	-0.05%	2.38%	-0.84%	0.72%	3.36%	1.41%
		Deaf-Blind	-0.15%	0.15%	0%	-0.35%	-0.02%	0.19%
		Emotional Disability	-0.93%	0.45%	-0.84%	0.80%	-0.76%	0.02%
		Hearing Disability	-0.16%	-0.01%	0.13%	-1.02%	-0.99%	0.93%
		Limited Intellectual Capacity	-3.93%	0.84%	0.62%	1.70%	-3.86%	7.17%
		Multiple Disabilities	4.32%	1.32%	0.51%	0.64%	1.95%	-4.98%
		Physical Disability	0.21%	-5.97%	2.93%	2.48%	1.50%	-1.70%
		Specific Learning Disability	-0.35%	0.32%	-1.36%	-4.59%	-0.76%	-2.92%
		Speech/Language Disability	-0.94%	0.58%	-1.48%	0.55%	-0.48%	-0.51%
		Traumatic Brain Injury	1.21%	-0.20%	-0.16%	-0.25%	-0.08%	0.56%
		Visual Disability	-0.47%	0.46%	0.16%	-0.69%	0.51%	0%
		Orthopedic impairment	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	-0.63%	0.42%	-0.16%	-	-	-
		Asian	0.74%	-0.07%	0.26%	-	-	-
		Black/ African American	-1.16%	1.13%	-1.47%	-	-	-
		Hispanic/ Latino	6.78%	-4.74%	3.14%	-	-	-
		White	-6.14%	2.47%	-3.03%	-	-	-
Native Hawaiian/ Other Pacific Islander		0.16%	-0.17%	-0.06%	-	-	-	
	Two or More Races	0.56%	0.65%	0.99%	-	-	-	

Table 70
Reading Longitudinal Subgroup Participation (continued)

			Grade 7						
Content	Variable	Subgroup	2014	2013	2012	2011	2010	2009	2008
RD	Gender	Female	38.10%	37.72%	37.10%	38.94%	39.63%	39.29%	35.55%
		Male	61.59%	61.63%	62.90%	60.71%	60.19%	59.96%	64.45%
	Primary Disability	Autism	13.97%	15.12%	16.20%	14.69%	9.82%	10.53%	9.32%
		Deaf-Blind	0%	0.16%	0.19%	0.35%	0%	0.19%	0%
		Emotional Disability	0.16%	0.49%	0.75%	0.71%	0.56%	1.13%	1.14%
		Hearing Disability	0%	0.33%	0%	0.35%	2.22%	1.32%	1.33%
		Limited Intellectual Capacity	33.17%	34.63%	31.45%	34.51%	35.93%	30.26%	30.42%
		Multiple Disabilities	39.84%	33.66%	37.10%	31.86%	32.96%	36.09%	35.93%
		Physical Disability	6.83%	11.06%	7.53%	8.14%	8.15%	8.27%	9.13%
		Specific Learning Disability	3.49%	2.28%	4.71%	6.37%	7.59%	9.59%	10.08%
		Speech/Language Disability	0.48%	0.49%	0.75%	1.06%	1.30%	1.88%	0.95%
		Traumatic Brain Injury	0.63%	1.30%	1.32%	1.24%	1.30%	0.56%	1.71%
		Visual Disability	0.16%	0%	0%	0.53%	0.19%	0.19%	0%
		Orthopedic impairment	0.16%	-	-	-	-	-	-
		Other health impairment	0.79%	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	1.90%	1.14%	1.32%	1.24%	-	-	-
		Asian	1.90%	1.63%	1.51%	2.30%	-	-	-
		Black/ African American	7.14%	7.48%	7.91%	8.14%	-	-	-
		Hispanic/ Latino	32.86%	37.07%	32.58%	33.81%	-	-	-
		White	51.59%	49.27%	54.05%	51.68%	-	-	-
Native Hawaiian/ Other Pacific Islander		0.16%	0.33%	0.38%	0.18%	-	-	-	
Two or More Races		3.97%	2.44%	2.26%	2.30%	-	-	-	

Table 70
Reading Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 7						
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008	
RD	Gender	Female	0.38%	0.62%	-1.84%	-0.69%	0.34%	3.74%	
		Male	-0.04%	-1.27%	2.19%	0.52%	0.22%	-4.49%	
	Primary Disability	Autism	-1.15%	-1.08%	1.51%	4.88%	-0.71%	1.21%	
		Deaf-Blind	-0.16%	-0.03%	-0.16%	0.35%	-0.19%	0.19%	
		Emotional Disability	-0.33%	-0.26%	0.04%	0.15%	-0.57%	-0.01%	
		Hearing Disability	-0.33%	0.33%	-0.35%	-1.87%	0.91%	-0.02%	
		Limited Intellectual Capacity	-1.46%	3.18%	-3.06%	-1.41%	5.66%	-0.16%	
		Multiple Disabilities	6.18%	-3.44%	5.24%	-1.11%	-3.13%	0.16%	
		Physical Disability	-4.23%	3.53%	-0.61%	-0.01%	-0.12%	-0.85%	
		Specific Learning Disability	1.21%	-2.43%	-1.66%	-1.22%	-1.99%	-0.49%	
		Speech/Language Disability	-0.01%	-0.26%	-0.31%	-0.23%	-0.58%	0.93%	
		Traumatic Brain Injury	-0.67%	-0.02%	0.08%	-0.06%	0.73%	-1.15%	
		Visual Disability	0.16%	0.00%	-0.53%	0.35%	0%	0.19%	
		Orthopedic impairment	-	-	-	-	-	-	
		Other health impairment	-	-	-	-	-	-	
		Ethnicity	American Indian/Alaska Native	0.76%	-0.18%	0.08%	-	-	-
			Asian	0.27%	0.12%	-0.79%	-	-	-
			Black/ African American	-0.34%	-0.43%	-0.23%	-	-	-
Hispanic/ Latino	-4.21%		4.49%	-1.23%	-	-	-		
White	2.32%		-4.78%	2.37%	-	-	-		
Native Hawaiian/ Other Pacific Islander	-0.17%		-0.05%	0.20%	-	-	-		
Two or More Races	1.53%		0.18%	-0.04%	-	-	-		

Table 70
Reading Longitudinal Subgroup Participation (continued)

			Grade 8						
Content	Variable	Subgroup	2014	2013	2012	2011	2010	2009	2008
RD	Gender	Female	39.15%	38.14%	38.22%	40.64%	39.72%	36.21%	38.93%
		Male	60.68%	61.86%	61.78%	59.36%	59.88%	63.42%	61.07%
	Primary Disability	Autism	15.08%	14.03%	15.04%	10.56%	10.08%	10.48%	9.09%
		Deaf-Blind	0%	0.20%	0.36%	0.20%	0%	0.19%	0%
		Emotional Disability	0.85%	0.79%	0.54%	0.20%	0.59%	0.92%	1.38%
		Hearing Disability	0.34%	0%	0.36%	1.00%	1.38%	1.47%	1.38%
		Limited Intellectual Capacity	31.19%	33.60%	36.41%	35.46%	32.21%	30.88%	33.60%
		Multiple Disabilities	39.66%	39.33%	33.88%	36.85%	40.91%	37.32%	36.17%
		Physical Disability	7.97%	7.51%	7.79%	8.37%	7.71%	8.27%	5.93%
		Specific Learning Disability	2.54%	2.96%	3.44%	4.78%	4.55%	7.35%	9.09%
		Speech/Language Disability	0.34%	0.59%	0.54%	0.60%	1.78%	1.84%	2.37%
		Traumatic Brain Injury	1.19%	0.79%	1.27%	1.59%	0.59%	1.47%	0.40%
	Ethnicity	Visual Disability	0%	0.20%	0.36%	0.40%	0.20%	0%	0.59%
		Orthopedic impairment	0%	-	-	-	-	-	-
		Other health impairment	0.68%	-	-	-	-	-	-
		American Indian/Alaska Native	0.51%	1.78%	0.91%	1.39%	-	-	-
		Asian	1.86%	1.78%	2.17%	3.59%	-	-	-
		Black/ African American	7.46%	7.31%	7.61%	7.17%	-	-	-
		Hispanic/ Latino	38.64%	33.60%	32.61%	33.87%	-	-	-
		White	48.64%	53.16%	54.53%	52.59%	-	-	-
Native Hawaiian/ Other Pacific Islander	0.34%	0%	0%	0%	-	-	-		
Two or More Races	2.20%	2.37%	2.17%	1.39%	-	-	-		

Table 70
Reading Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 8					
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
RD	Gender	Female	1.01%	-0.08%	-2.42%	0.91%	3.51%	-2.72%
		Male	-1.18%	0.08%	2.42%	-0.52%	-3.54%	2.35%
	Primary Disability	Autism	1.05%	-1.01%	4.48%	0.48%	-0.40%	1.39%
		Deaf-Blind	-0.20%	-0.16%	0.16%	0.20%	-0.19%	0.19%
		Emotional Disability	0.06%	0.25%	0.34%	-0.39%	-0.33%	-0.46%
		Hearing Disability	0.34%	-0.36%	-0.64%	-0.39%	-0.09%	0.09%
		Limited Intellectual Capacity	-2.41%	-2.81%	0.95%	3.25%	1.33%	-2.72%
		Multiple Disabilities	0.33%	5.45%	-2.97%	-4.06%	3.59%	1.15%
		Physical Disability	0.46%	-0.28%	-0.58%	0.66%	-0.56%	2.34%
		Specific Learning Disability	-0.42%	-0.48%	-1.34%	0.24%	-2.81%	-1.74%
		Speech/Language Disability	-0.25%	0.05%	-0.06%	-1.18%	-0.06%	-0.53%
		Traumatic Brain Injury	0.40%	-0.48%	-0.32%	1.00%	-0.88%	1.08%
	Ethnicity	Visual Disability	-0.20%	-0.16%	-0.04%	0.20%	0.20%	-0.59%
		Orthopedic impairment	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-
		American Indian/Alaska Native	-1.27%	0.87%	-0.48%	-	-	-
		Asian	0.08%	-0.39%	-1.42%	-	-	-
		Black/ African American	0.15%	-0.30%	0.44%	-	-	-
		Hispanic/ Latino	5.04%	0.99%	-1.26%	-	-	-
		White	-4.52%	-1.37%	1.94%	-	-	-
Native Hawaiian/ Other Pacific Islander	0%	0%	0%	-	-	-		
Two or More Races	-0.17%	0.20%	0.78%	-	-	-		

Table 70
Reading Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 9						
			2014	2013	2012	2011	2010	2009	2008
RD	Gender	Female	35.91%	37.04%	38.11%	40.53%	36.25%	38.43%	40.64%
		Male	63.90%	62.77%	61.68%	59.28%	63.57%	61.37%	59.36%
	Primary Disability	Autism	12.93%	15.51%	11.68%	10.42%	9.67%	9.86%	7.95%
		Deaf-Blind	0%	0%	0%	0%	0.19%	0%	0.18%
		Emotional Disability	1.16%	0.55%	0.82%	0.38%	1.30%	0.60%	1.06%
		Hearing Disability	0%	0.18%	1.23%	0.19%	1.30%	1.21%	0.88%
		Limited Intellectual Capacity	31.66%	36.50%	35.66%	34.47%	34.57%	36.22%	37.46%
		Multiple Disabilities	41.51%	35.95%	36.89%	41.86%	38.29%	35.41%	34.45%
		Physical Disability	6.56%	5.47%	7.99%	5.87%	7.06%	7.04%	5.48%
		Specific Learning Disability	3.28%	4.20%	2.66%	4.36%	5.39%	6.24%	10.07%
		Speech/Language Disability	0.97%	0.18%	1.02%	0.95%	1.12%	2.01%	1.41%
		Traumatic Brain Injury	0.97%	1.09%	1.43%	1.14%	0.93%	0.60%	0.71%
	Ethnicity	Visual Disability	0.19%	0.18%	0.41%	0.19%	0%	0.40%	0.35%
		Orthopedic impairment	0%	-	-	-	-	-	-
		Other health impairment	0.58%	-	-	-	-	-	-
		American Indian/Alaska Native	1.93%	0.91%	1.43%	1.14%	-	-	-
		Asian	1.93%	1.82%	4.10%	2.84%	-	-	-
		Black/ African American	6.18%	6.93%	6.76%	8.90%	-	-	-
		Hispanic/ Latino	34.17%	32.85%	34.22%	31.63%	-	-	-
		White	52.12%	54.20%	51.23%	52.08%	-	-	-
Native Hawaiian/ Other Pacific Islander	0%	0%	0%	0.19%	-	-	-		
Two or More Races	3.47%	3.10%	2.05%	3.03%	-	-	-		

Table 70
Reading Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 9					
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
RD	Gender	Female	-1.13%	-1.07%	-2.42%	4.29%	-2.19%	-2.21%
		Male	1.13%	1.09%	2.40%	-4.29%	2.20%	2.00%
	Primary Disability	Autism	-2.58%	3.83%	1.26%	0.75%	-0.19%	1.91%
		Deaf-Blind	0%	0%	0%	-0.19%	0.19%	-0.18%
		Emotional Disability	0.61%	-0.27%	0.44%	-0.92%	0.70%	-0.46%
		Hearing Disability	-0.18%	-1.05%	1.04%	-1.11%	0.09%	0.32%
		Limited Intellectual Capacity	-4.84%	0.84%	1.19%	-0.10%	-1.65%	-1.24%
		Multiple Disabilities	5.56%	-0.94%	-4.97%	3.57%	2.88%	0.96%
		Physical Disability	1.09%	-2.52%	2.12%	-1.19%	0.02%	1.57%
		Specific Learning Disability	-0.92%	1.54%	-1.70%	-1.03%	-0.85%	-3.83%
		Speech/Language Disability	0.79%	-0.84%	0.07%	-0.17%	-0.90%	0.60%
		Traumatic Brain Injury	-0.12%	-0.34%	0.29%	0.21%	0.33%	-0.10%
	Ethnicity	Visual Disability	0.01%	-0.23%	0.22%	0.19%	-0.40%	0.05%
		Orthopedic impairment	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-
		American Indian/Alaska Native	1.02%	-0.52%	0.29%	-	-	-
		Asian	0.11%	-2.28%	1.26%	-	-	-
		Black/ African American	-0.75%	0.17%	-2.14%	-	-	-
		Hispanic/ Latino	1.32%	-1.37%	2.59%	-	-	-
		White	-2.08%	2.97%	-0.85%	-	-	-
Native Hawaiian/ Other Pacific Islander	0%	0%	-0.19%	-	-	-		
Two or More Races	0.37%	1.05%	-0.98%	-	-	-		

Table 70
Reading Longitudinal Subgroup Participation (continued)

			Grade 10						
Content	Variable	Subgroup	2014	2013	2012	2011	2010	2009	2008
RD	Gender	Female	36.79%	39.48%	41.17%	38.70%	39.16%	39.78%	39.05%
		Male	62.66%	60.52%	58.64%	61.30%	60.63%	60.04%	60.95%
	Primary Disability	Autism	14.03%	12.23%	11.26%	10.59%	10.53%	8.44%	5.86%
		Deaf-Blind	0.18%	0%	0%	0%	0%	0%	0.22%
		Emotional Disability	0.55%	1.07%	0.97%	1.02%	0.63%	0.94%	1.30%
		Hearing Disability	0.36%	1.50%	0.19%	0.41%	0.84%	1.13%	2.82%
		Limited Intellectual Capacity	34.97%	33.26%	33.40%	35.44%	36.42%	38.09%	35.79%
		Multiple Disabilities	40.07%	40.99%	43.50%	42.16%	39.16%	36.02%	38.40%
		Physical Disability	4.01%	7.30%	5.44%	5.91%	5.26%	5.63%	8.68%
		Specific Learning Disability	3.46%	1.29%	2.72%	3.26%	5.05%	6.57%	4.99%
		Speech/Language Disability	0.36%	0.64%	0.97%	0.61%	1.05%	1.13%	0.87%
		Traumatic Brain Injury	1.28%	1.72%	1.36%	0.61%	0.63%	1.31%	1.09%
	Ethnicity	Visual Disability	0%	0%	0.19%	0%	0.21%	0.56%	0%
		Orthopedic impairment	0%	-	-	-	-	-	-
		Other health impairment	0.36%	-	-	-	-	-	-
		American Indian/Alaska Native	0.73%	1.29%	1.55%	2.24%	-	-	-
		Asian	2.00%	3.22%	2.91%	1.63%	-	-	-
		Black/ African American	7.47%	9.01%	8.35%	7.13%	-	-	-
		Hispanic/ Latino	32.60%	34.55%	30.68%	31.77%	-	-	-
		White	52.64%	49.57%	53.20%	55.40%	-	-	-
Native Hawaiian/ Other Pacific Islander	0.18%	0.21%	0.19%	0%	-	-	-		
Two or More Races	4.01%	2.15%	2.91%	1.63%	-	-	-		

Table 70
Reading Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 10					
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
RD	Gender	Female	-2.69%	-1.69%	2.47%	-0.46%	-0.62%	0.73%
		Male	2.14%	1.88%	-2.66%	0.67%	0.59%	-0.92%
	Primary Disability	Autism	1.80%	0.97%	0.67%	0.06%	2.08%	2.59%
		Deaf-Blind	0.18%	0%	0%	0%	0%	-0.22%
		Emotional Disability	-0.52%	0.10%	-0.05%	0.39%	-0.31%	-0.36%
		Hearing Disability	-1.14%	1.31%	-0.22%	-0.44%	-0.28%	-1.69%
		Limited Intellectual Capacity	1.71%	-0.14%	-2.04%	-0.98%	-1.67%	2.29%
		Multiple Disabilities	-0.92%	-2.51%	1.34%	3.00%	3.14%	-2.37%
		Physical Disability	-3.29%	1.86%	-0.47%	0.64%	-0.37%	-3.05%
		Specific Learning Disability	2.17%	-1.43%	-0.54%	-1.79%	-1.51%	1.58%
		Speech/Language Disability	-0.28%	-0.33%	0.36%	-0.44%	-0.07%	0.26%
		Traumatic Brain Injury	-0.44%	0.36%	0.75%	-0.02%	-0.68%	0.23%
	Ethnicity	Visual Disability	0%	-0.19%	0.19%	-0.21%	-0.35%	0.56%
		Orthopedic impairment	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-
		American Indian/Alaska Native	-0.56%	-0.26%	-0.69%	-	-	-
		Asian	-1.22%	0.31%	1.28%	-	-	-
		Black/ African American	-1.54%	0.66%	1.22%	-	-	-
		Hispanic/ Latino	-1.95%	3.87%	-1.09%	-	-	-
		White	3.07%	-3.63%	-2.20%	-	-	-
Native Hawaiian/ Other Pacific Islander	-0.03%	0.02%	0.19%	-	-	-		
Two or More Races	1.86%	-0.76%	1.28%	-	-	-		

Table 71
Writing Longitudinal Subgroup Participation

			Grade 3						
Content	Variable	Subgroup	2014	2013	2012	2011	2010	2009	2008
WR	Gender	Female	31.02%	34.33%	35.66%	36.57%	35.29%	33.38%	34.81%
		Male	68.47%	65.37%	64.19%	63.27%	64.71%	66.18%	65.19%
	Primary Disability	Autism	21.53%	17.39%	21.09%	17.90%	16.44%	13.99%	12.66%
		Deaf-Blind	0%	0%	0%	0.15%	0%	0.29%	0%
		Emotional Disability	0.51%	0.30%	0.61%	0.93%	1.96%	0.73%	1.58%
		Hearing Disability	0.51%	0.30%	0.46%	0%	1.51%	0.88%	2.22%
		Limited Intellectual Capacity	26.10%	25.49%	25.34%	24.23%	23.68%	27.41%	21.20%
		Multiple Disabilities	32.54%	36.58%	30.96%	27.01%	28.81%	24.05%	24.05%
		Physical Disability	11.69%	11.84%	12.59%	17.28%	12.37%	13.85%	12.66%
		Specific Learning Disability	2.20%	3.60%	3.95%	6.17%	7.09%	10.06%	15.35%
		Speech/Language Disability	1.53%	3.00%	3.95%	4.63%	6.64%	7.58%	9.49%
		Traumatic Brain Injury	0.51%	1.35%	0.76%	1.54%	0.75%	1.02%	0.63%
		Visual Disability	0.51%	0%	0.15%	0.15%	0.75%	0.15%	0.16%
		Orthopedic impairment	0%	-	-	-	-	-	-
		Other health impairment	2.03%	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	0.85%	0.75%	1.06%	1.24%	-	-	-
		Asian	2.37%	1.95%	3.64%	2.16%	-	-	-
		Black/ African American	7.80%	7.50%	5.77%	6.02%	-	-	-
		Hispanic/ Latino	37.12%	37.78%	35.66%	37.35%	-	-	-
		White	47.46%	46.48%	49.92%	49.23%	-	-	-
Native Hawaiian/ Other Pacific Islander		1.02%	0.30%	0.15%	0%	-	-	-	
	Two or More Races	3.05%	4.95%	3.64%	4.01%	-	-	-	

Table 71
Writing Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 3					
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
WR	Gender	Female	-3.31%	-1.33%	-0.91%	1.28%	1.91%	-1.43%
		Male	3.10%	1.18%	0.92%	-1.43%	-1.48%	0.99%
	Primary Disability	Autism	4.14%	-3.70%	3.19%	1.46%	2.45%	1.34%
		Deaf-Blind	0%	0.00%	-0.15%	0.15%	-0.29%	0.29%
		Emotional Disability	0.21%	-0.31%	-0.32%	-1.04%	1.23%	-0.85%
		Hearing Disability	0.21%	-0.16%	0.46%	-1.51%	0.63%	-1.34%
		Limited Intellectual Capacity	0.61%	0.15%	1.11%	0.55%	-3.73%	6.20%
		Multiple Disabilities	-4.04%	5.62%	3.95%	-1.80%	4.76%	0%
		Physical Disability	-0.15%	-0.75%	-4.69%	4.92%	-1.48%	1.19%
		Specific Learning Disability	-1.40%	-0.35%	-2.22%	-0.92%	-2.97%	-5.29%
		Speech/Language Disability	-1.47%	-0.95%	-0.68%	-2.01%	-0.94%	-1.91%
		Traumatic Brain Injury	-0.84%	0.59%	-0.78%	0.79%	-0.27%	0.39%
		Visual Disability	0.51%	-0.15%	0%	-0.60%	0.61%	-0.01%
		Orthopedic impairment	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	0.10%	-0.31%	-0.18%	-	-	-
		Asian	0.42%	-1.69%	1.48%	-	-	-
		Black/ African American	0.30%	1.73%	-0.25%	-	-	-
		Hispanic/ Latino	-0.66%	2.12%	-1.69%	-	-	-
		White	0.98%	-3.44%	0.69%	-	-	-
Native Hawaiian/ Other Pacific Islander		0.72%	0.15%	0.15%	-	-	-	
	Two or More Races	-1.90%	1.31%	-0.37%	-	-	-	

Table 71
Writing Longitudinal Subgroup Participation (continued)

			Grade 4						
Content	Variable	Subgroup	2014	2013	2012	2011	2010	2009	2008
WR	Gender	Female	35.38%	36.70%	36.15%	35.34%	34.14%	36.99%	37.70%
		Male	64.47%	63.30%	63.54%	64.33%	65.86%	62.70%	61.82%
	Primary Disability	Autism	16.67%	21.20%	17.36%	16.94%	15.33%	12.38%	10.22%
		Deaf-Blind	0%	0%	0.32%	0%	0.15%	0%	0.16%
		Emotional Disability	0.15%	0.58%	0%	2.28%	0.15%	1.41%	2.24%
		Hearing Disability	0.29%	0.29%	0.16%	0.33%	1.37%	1.41%	1.44%
		Limited Intellectual Capacity	27.49%	27.49%	26.43%	26.55%	29.14%	23.67%	26.04%
		Multiple Disabilities	39.04%	33.33%	32.32%	31.92%	26.10%	27.43%	28.75%
		Physical Disability	9.80%	10.09%	14.49%	12.05%	13.35%	12.70%	11.02%
		Specific Learning Disability	3.22%	3.22%	5.25%	6.68%	9.26%	13.01%	13.74%
		Speech/Language Disability	1.02%	2.63%	2.07%	1.63%	3.95%	6.58%	4.63%
		Traumatic Brain Injury	1.17%	1.02%	1.11%	0.98%	1.06%	0.94%	0.96%
		Visual Disability	0.15%	0.15%	0.16%	0.49%	0.15%	0.31%	0.32%
		Orthopedic impairment	0%	-	-	-	-	-	-
	Other health impairment	0.88%	-	-	-	-	-	-	
	Ethnicity	American Indian/Alaska Native	1.32%	1.32%	1.11%	1.47%	-	-	-
		Asian	2.19%	3.65%	2.23%	2.61%	-	-	-
		Black/ African American	8.04%	6.43%	6.05%	6.19%	-	-	-
		Hispanic/ Latino	38.60%	36.84%	36.15%	34.37%	-	-	-
White		45.32%	48.54%	50.16%	52.12%	-	-	-	
Pacific Islander		0.44%	0.15%	0.16%	0.16%	-	-	-	
Two or More Races		3.95%	3.07%	3.82%	2.93%	-	-	-	

Table 71
Writing Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 4						
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008	
WR	Gender	Female	-1.32%	0.55%	0.81%	1.20%	-2.85%	-0.71%	
		Male	1.17%	-0.24%	-0.79%	-1.53%	3.16%	0.87%	
	Primary Disability	Autism	-4.53%	3.84%	0.42%	1.61%	2.94%	2.16%	
		Deaf-Blind	0%	-0.32%	0.32%	-0.15%	0.15%	-0.16%	
		Emotional Disability	-0.43%	0.58%	-2.28%	2.13%	-1.26%	-0.83%	
		Hearing Disability	0%	0.13%	-0.17%	-1.04%	-0.04%	-0.03%	
		Limited Intellectual Capacity	0%	1.06%	-0.12%	-2.59%	5.47%	-2.37%	
		Multiple Disabilities	5.71%	1.01%	0.40%	5.82%	-1.33%	-1.33%	
		Physical Disability	-0.29%	-4.40%	2.44%	-1.30%	0.66%	1.67%	
		Specific Learning Disability	0%	-2.03%	-1.43%	-2.58%	-3.75%	-0.73%	
		Speech/Language Disability	-1.61%	0.56%	0.44%	-2.32%	-2.64%	1.95%	
		Traumatic Brain Injury	0.15%	-0.09%	0.13%	-0.09%	0.12%	-0.02%	
		Visual Disability	0%	-0.01%	-0.33%	0.34%	-0.16%	-0.01%	
		Orthopedic impairment	-	-	-	-	-	-	
		Other health impairment	-	-	-	-	-	-	
		Ethnicity	American Indian/Alaska Native	0%	0.21%	-0.36%	-	-	-
			Asian	-1.46%	1.42%	-0.38%	-	-	-
			Black/ African American	1.61%	0.38%	-0.14%	-	-	-
			Hispanic/ Latino	1.76%	0.69%	1.79%	-	-	-
White	-3.22%		-1.62%	-1.96%	-	-	-		
Pacific Islander	0.29%		-0.01%	0.00%	-	-	-		
Two or More Races	0.88%		-0.75%	0.89%	-	-	-		

Table 71
Writing Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 5					
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
WR	Gender	Female	-1.16%	-0.72%	1.91%	-3.21%	-0.39%	0.60%
		Male	1.16%	1.06%	-1.95%	3.08%	0.39%	-0.93%
	Primary Disability	Autism	0.23%	-0.12%	2.02%	1.78%	1.36%	3.31%
		Deaf-Blind	-0.15%	0.15%	-0.15%	0.15%	-0.17%	-0.19%
		Emotional Disability	-0.30%	-0.04%	-0.12%	-0.54%	-1.00%	0.56%
		Hearing Disability	0.14%	-0.17%	-0.44%	-0.88%	0.15%	-0.27%
		Limited Intellectual Capacity	-3.28%	0.25%	-0.54%	4.71%	-2.08%	-3.44%
		Multiple Disabilities	6.01%	-0.25%	2.67%	1.96%	0.21%	-0.62%
		Physical Disability	-1.21%	0.13%	-0.94%	0.03%	0.87%	1.58%
		Specific Learning Disability	-1.61%	-0.04%	-2.40%	-3.69%	-0.11%	-1.43%
		Speech/Language Disability	-0.19%	-0.41%	-0.35%	-3.60%	1.76%	-0.60%
		Traumatic Brain Injury	-0.64%	1.16%	-0.26%	0.25%	-0.50%	0.10%
		Visual Disability	0%	-0.34%	0.49%	-0.16%	-0.50%	0.66%
		Orthopedic impairment	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	-0.49%	0.06%	0.39%	-	-	-
		Asian	0.92%	0.62%	-0.18%	-	-	-
		Black/ African American	1.09%	-1.08%	-1.37%	-	-	-
		Hispanic/ Latino	-0.32%	5.55%	-4.81%	-	-	-
		White	-0.76%	-4.73%	4.96%	-	-	-
Pacific Islander		0.43%	-0.16%	-0.14%	-	-	-	
Two or More Races		-1.01%	0.21%	1.14%	-	-	-	

Table 71
Writing Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 5					
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
WR	Gender	Female	-1.16%	-0.72%	1.91%	-3.21%	-0.39%	0.60%
		Male	1.16%	1.06%	-1.95%	3.08%	0.39%	-0.93%
	Primary Disability	Autism	0.23%	-0.12%	2.02%	1.78%	1.36%	3.31%
		Deaf-Blind	-0.15%	0.15%	-0.15%	0.15%	-0.17%	-0.19%
		Emotional Disability	-0.30%	-0.04%	-0.12%	-0.54%	-1.00%	0.56%
		Hearing Disability	0.14%	-0.17%	-0.44%	-0.88%	0.15%	-0.27%
		Limited Intellectual Capacity	-3.28%	0.25%	-0.54%	4.71%	-2.08%	-3.44%
		Multiple Disabilities	6.01%	-0.25%	2.67%	1.96%	0.21%	-0.62%
		Physical Disability	-1.21%	0.13%	-0.94%	0.03%	0.87%	1.58%
		Specific Learning Disability	-1.61%	-0.04%	-2.40%	-3.69%	-0.11%	-1.43%
		Speech/Language Disability	-0.19%	-0.41%	-0.35%	-3.60%	1.76%	-0.60%
		Traumatic Brain Injury	-0.64%	1.16%	-0.26%	0.25%	-0.50%	0.10%
		Visual Disability	0.00%	-0.34%	0.49%	-0.16%	-0.50%	0.66%
		Orthopedic impairment	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	-0.49%	0.06%	0.39%	-	-	-
		Asian	0.92%	0.62%	-0.18%	-	-	-
		Black/ African American	1.09%	-1.08%	-1.37%	-	-	-
		Hispanic/ Latino	-0.32%	5.55%	-4.81%	-	-	-
		White	-0.76%	-4.73%	4.96%	-	-	-
Pacific Islander		0.43%	-0.16%	-0.14%	-	-	-	
Two or More Races		-1.01%	0.21%	1.14%	-	-	-	

Table 71
Writing Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 6						
			2014	2013	2012	2011	2010	2009	2008
WR	Gender	Female	37.85%	37.93%	36.39%	36.96%	38.96%	38.43%	40.36%
		Male	61.69%	61.61%	63.29%	63.04%	61.04%	61.20%	58.91%
	Primary Disability	Autism	15.85%	16.25%	13.85%	14.82%	13.91%	10.75%	9.27%
		Deaf-Blind	0%	0.15%	0%	0%	0.35%	0.36%	0.18%
		Emotional Disability	0%	0.93%	0.48%	1.31%	0.52%	1.28%	1.27%
		Hearing Disability	0.15%	0.31%	0.32%	0.19%	1.22%	2.37%	1.27%
		Limited Intellectual Capacity	30.15%	33.75%	32.85%	32.27%	30.78%	34.43%	27.64%
		Multiple Disabilities	38.00%	34.06%	32.85%	32.27%	31.30%	29.14%	34.55%
		Physical Disability	8.31%	7.74%	13.69%	10.69%	8.35%	6.92%	8.36%
		Specific Learning Disability	3.54%	3.87%	3.54%	4.88%	9.57%	10.20%	12.73%
		Speech/Language Disability	0.62%	1.55%	0.97%	2.44%	1.91%	2.55%	2.91%
		Traumatic Brain Injury	2.00%	0.77%	0.97%	1.13%	1.39%	1.46%	0.91%
		Visual Disability	0.15%	0.62%	0.16%	0%	0.70%	0.18%	0.36%
		Orthopedic impairment	0%	-	-	-	-	-	-
		Other health impairment	0.77%	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	0.77%	1.39%	0.97%	1.13%	-	-	-
		Asian	2.31%	1.55%	1.61%	1.50%	-	-	-
		Black/ African American	6.46%	7.59%	6.44%	7.69%	-	-	-
		Hispanic/ Latino	39.38%	32.20%	36.55%	33.96%	-	-	-
		White	46.15%	52.94%	50.72%	53.28%	-	-	-
Pacific Islander		0.31%	0.15%	0.32%	0.38%	-	-	-	
Two or More Races		4.31%	3.56%	3.06%	2.06%	-	-	-	

Table 71
Writing Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 6					
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
WR	Gender	Female	-0.08%	1.54%	-0.57%	-2.00%	0.52%	-1.93%
		Male	0.08%	-1.68%	0.25%	2.00%	-0.16%	2.29%
	Primary Disability	Autism	-0.40%	2.40%	-0.97%	0.91%	3.17%	1.47%
		Deaf-Blind	-0.15%	0.15%	0%	-0.35%	-0.02%	0.18%
		Emotional Disability	-0.93%	0.45%	-0.83%	0.79%	-0.75%	0%
		Hearing Disability	-0.16%	-0.01%	0.13%	-1.03%	-1.15%	1.10%
		Limited Intellectual Capacity	-3.60%	0.90%	0.58%	1.49%	-3.64%	6.79%
		Multiple Disabilities	3.94%	1.21%	0.58%	0.97%	2.16%	-5.40%
		Physical Disability	0.57%	-5.95%	3.00%	2.35%	1.43%	-1.44%
		Specific Learning Disability	-0.33%	0.33%	-1.34%	-4.69%	-0.63%	-2.53%
		Speech/Language Disability	-0.93%	0.58%	-1.47%	0.53%	-0.64%	-0.36%
		Traumatic Brain Injury	1.23%	-0.20%	-0.16%	-0.27%	-0.07%	0.55%
		Visual Disability	-0.47%	0.46%	0.16%	-0.70%	0.51%	-0.18%
		Orthopedic impairment	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	-0.62%	0.42%	-0.16%	-	-	-
		Asian	0.76%	-0.06%	0.11%	-	-	-
		Black/ African American	-1.13%	1.15%	-1.25%	-	-	-
		Hispanic/ Latino	7.18%	-4.35%	2.59%	-	-	-
		White	-6.79%	2.22%	-2.56%	-	-	-
Pacific Islander		0.16%	-0.17%	-0.06%	-	-	-	
Two or More Races		0.75%	0.50%	1.00%	-	-	-	

Table 71
Writing Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 7						
			2014	2013	2012	2011	2010	2009	2008
WR	Gender	Female	37.70%	37.25%	36.71%	38.43%	38.99%	39.02%	34.79%
		Male	61.98%	62.09%	63.29%	61.21%	60.82%	60.23%	65.21%
	Primary Disability	Autism	14.06%	15.36%	16.06%	14.95%	10.08%	10.51%	9.70%
		Deaf-Blind	0%	0.16%	0.19%	0.36%	0%	0.19%	0%
		Emotional Disability	0.16%	0.49%	0.76%	0.71%	0.56%	1.31%	1.14%
		Hearing Disability	0%	0.33%	0%	0.36%	2.24%	1.31%	1.33%
		Limited Intellectual Capacity	32.91%	34.97%	31.55%	34.34%	36.01%	30.02%	29.85%
		Multiple Disabilities	39.94%	33.66%	37.09%	31.85%	32.84%	36.02%	35.93%
		Physical Disability	6.87%	10.46%	7.46%	8.01%	7.84%	8.26%	9.13%
		Specific Learning Disability	3.51%	2.29%	4.78%	6.41%	7.46%	9.57%	10.08%
		Speech/Language Disability	0.48%	0.49%	0.76%	1.07%	1.49%	2.06%	0.95%
		Traumatic Brain Injury	0.64%	1.31%	1.34%	1.25%	1.31%	0.56%	1.90%
		Visual Disability	0.16%	0%	0%	0.53%	0.19%	0.19%	0%
		Orthopedic impairment	0.16%	-	-	-	-	-	-
		Other health impairment	0.80%	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	1.92%	1.14%	1.15%	1.25%	-	-	-
		Asian	1.92%	1.63%	1.34%	2.14%	-	-	-
		Black/ African American	7.19%	7.52%	7.84%	8.19%	-	-	-
		Hispanic/ Latino	32.91%	37.25%	32.70%	33.99%	-	-	-
		White	51.44%	49.02%	54.30%	51.60%	-	-	-
Native Hawaiian/ Other Pacific Islander		0.16%	0.33%	0.38%	0.18%	-	-	-	
Two or More Races		3.99%	2.45%	2.29%	2.31%	-	-	-	

Table 71
Writing Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 7					
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
WR	Gender	Female	0.45%	0.54%	-1.72%	-0.56%	-0.03%	4.23%
		Male	-0.11%	-1.20%	2.08%	0.39%	0.60%	-4.98%
	Primary Disability	Autism	-1.30%	-0.70%	1.11%	4.87%	-0.43%	0.81%
		Deaf-Blind	-0.16%	-0.03%	-0.17%	0.36%	-0.19%	0.19%
		Emotional Disability	-0.33%	-0.27%	0.05%	0.15%	-0.75%	0.17%
		Hearing Disability	-0.33%	0.33%	-0.36%	-1.88%	0.93%	-0.02%
		Limited Intellectual Capacity	-2.06%	3.42%	-2.79%	-1.67%	5.99%	0.17%
		Multiple Disabilities	6.28%	-3.43%	5.24%	-0.98%	-3.19%	0.09%
		Physical Disability	-3.59%	3.00%	-0.55%	0.17%	-0.42%	-0.87%
		Specific Learning Disability	1.22%	-2.49%	-1.63%	-1.06%	-2.11%	-0.51%
		Speech/Language Disability	-0.01%	-0.27%	-0.31%	-0.43%	-0.57%	1.11%
		Traumatic Brain Injury	-0.67%	-0.03%	0.09%	-0.06%	0.74%	-1.34%
	Visual Disability	0.16%	0%	-0.53%	0.35%	0%	0.19%	
	Orthopedic impairment	-	-	-	-	-	-	
	Other health impairment	-	-	-	-	-	-	
	Ethnicity	American Indian/Alaska Native	0.78%	-0.01%	-0.10%	-	-	-
		Asian	0.29%	0.29%	-0.80%	-	-	-
Black/ African American		-0.33%	-0.32%	-0.35%	-	-	-	
Hispanic/ Latino		-4.34%	4.55%	-1.29%	-	-	-	
White		2.42%	-5.28%	2.70%	-	-	-	
Native Hawaiian/ Other Pacific Islander		-0.17%	-0.05%	0.20%	-	-	-	
Two or More Races		1.54%	0.16%	-0.02%	-	-	-	

Table 71
Writing Longitudinal Subgroup Participation (continued)

			Grade 8						
Content	Variable	Subgroup	2014	2013	2012	2011	2010	2009	2008
WR	Gender	Female	39.22%	37.90%	38.25%	41.08%	40.00%	35.98%	39.28%
		Male	60.61%	62.10%	61.75%	58.92%	59.80%	63.65%	60.72%
	Primary Disability	Autism	15.28%	14.09%	14.94%	10.82%	10.10%	10.70%	9.22%
		Deaf-Blind	0%	0.20%	0.36%	0.20%	0%	0%	0%
		Emotional Disability	0.85%	0.79%	0.55%	0.20%	0.59%	0.92%	1.60%
		Hearing Disability	0.34%	0%	0.36%	1.00%	1.39%	1.48%	1.40%
		Limited Intellectual Capacity	31.24%	33.73%	36.61%	35.27%	32.08%	30.63%	33.27%
		Multiple Disabilities	39.39%	39.09%	33.88%	36.87%	40.79%	37.27%	35.87%
		Physical Disability	7.98%	7.54%	7.65%	8.22%	7.92%	8.30%	6.01%
		Specific Learning Disability	2.55%	2.98%	3.46%	4.81%	4.55%	7.38%	9.62%
		Speech/Language Disability	0.34%	0.60%	0.55%	0.60%	1.78%	1.85%	2.00%
		Traumatic Brain Injury	1.19%	0.79%	1.28%	1.60%	0.59%	1.48%	0.40%
		Visual Disability	0%	0.20%	0.36%	0.40%	0.20%	0%	0.60%
		Orthopedic impairment	0%	-	-	-	-	-	-
		Other health impairment	0.68%	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	0.51%	1.79%	0.91%	1.40%	-	-	-
		Asian	1.87%	1.98%	2.19%	3.61%	-	-	-
		Black/ African American	7.47%	7.34%	7.47%	7.01%	-	-	-
		Hispanic/ Latino	38.71%	33.53%	32.60%	34.07%	-	-	-
		White	48.56%	52.98%	54.64%	52.51%	-	-	-
Native Hawaiian/ Other Pacific Islander		0.34%	0%	0%	0%	-	-	-	
Two or More Races		2.21%	2.38%	2.19%	1.40%	-	-	-	

Table 71
Writing Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 8					
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
WR	Gender	Female	1.32%	-0.35%	-2.83%	1.08%	4.02%	-3.30%
		Male	-1.49%	0.35%	2.83%	-0.88%	-3.85%	2.93%
	Primary Disability	Autism	1.19%	-0.85%	4.12%	0.72%	-0.60%	1.48%
		Deaf-Blind	-0.20%	-0.16%	0.16%	0.20%	0%	0%
		Emotional Disability	0.06%	0.24%	0.35%	-0.39%	-0.33%	-0.68%
		Hearing Disability	0.34%	-0.36%	-0.64%	-0.38%	-0.09%	0.07%
		Limited Intellectual Capacity	-2.49%	-2.88%	1.34%	3.19%	1.45%	-2.64%
		Multiple Disabilities	0.30%	5.21%	-2.99%	-3.92%	3.52%	1.40%
		Physical Disability	0.44%	-0.11%	-0.57%	0.29%	-0.38%	2.29%
		Specific Learning Disability	-0.43%	-0.48%	-1.35%	0.26%	-2.83%	-2.24%
		Speech/Language Disability	-0.26%	0.05%	-0.05%	-1.18%	-0.06%	-0.16%
		Traumatic Brain Injury	0.40%	-0.49%	-0.32%	1.01%	-0.88%	1.08%
	Ethnicity	Visual Disability	-0.20%	-0.16%	-0.04%	0.20%	0.20%	-0.60%
		Orthopedic impairment	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-
		American Indian/Alaska Native	-1.28%	0.88%	-0.49%	-	-	-
		Asian	-0.11%	-0.21%	-1.42%	-	-	-
		Black/ African American	0.13%	-0.13%	0.46%	-	-	-
		Hispanic/ Latino	5.18%	0.93%	-1.47%	-	-	-
		White	-4.42%	-1.66%	2.14%	-	-	-
Native Hawaiian/ Other Pacific Islander	0.34%	0%	0%	-	-	-		
Two or More Races	-0.17%	0.19%	0.79%	-	-	-		

Table 71
Writing Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 9						
			2014	2013	2012	2011	2010	2009	2008
WR	Gender	Female	36.29%	37.07%	38.33%	40.42%	36.25%	38.15%	40.60%
		Male	63.51%	62.75%	61.67%	59.20%	63.57%	61.65%	59.40%
	Primary Disability	Autism	12.55%	15.37%	11.88%	10.63%	9.67%	10.04%	7.73%
		Deaf-Blind	0%	0%	0%	0%	0.19%	0%	0.18%
		Emotional Disability	1.16%	0.54%	0.63%	0.38%	1.30%	0.60%	1.05%
		Hearing Disability	0%	0.18%	1.25%	0.19%	1.30%	1.21%	0.88%
		Limited Intellectual Capacity	31.85%	35.99%	35.63%	34.54%	34.39%	36.35%	37.43%
		Multiple Disabilities	41.89%	36.53%	37.08%	41.75%	38.85%	35.14%	34.80%
		Physical Disability	6.37%	5.42%	7.92%	5.88%	6.88%	7.03%	5.62%
		Specific Learning Disability	3.28%	4.16%	2.71%	4.18%	5.20%	6.23%	9.84%
		Speech/Language Disability	0.97%	0.18%	1.04%	0.95%	1.12%	2.01%	1.41%
		Traumatic Brain Injury	0.97%	1.27%	1.46%	1.14%	0.93%	0.60%	0.70%
		Visual Disability	0.19%	0.18%	0.42%	0.19%	0%	0.40%	0.35%
		Orthopedic impairment	0%	-	-	-	-	-	-
		Other health impairment	0.58%	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	1.93%	0.90%	1.46%	1.14%	-	-	-
		Asian	1.93%	1.81%	3.75%	2.85%	-	-	-
		Black/ African American	6.37%	7.05%	6.67%	8.73%	-	-	-
		Hispanic/ Latino	33.98%	32.73%	34.38%	31.50%	-	-	-
		White	52.12%	54.25%	51.88%	52.37%	-	-	-
Native Hawaiian/ Other Pacific Islander		0%	0%	0%	0.19%	-	-	-	
Two or More Races		3.47%	3.07%	1.88%	2.85%	-	-	-	

Table 71
Writing Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 9					
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
WR	Gender	Female	-0.78%	-1.26%	-2.09%	4.17%	-1.91%	-2.45%
		Male	0.76%	1.08%	2.47%	-4.37%	1.92%	2.25%
	Primary Disability	Autism	-2.82%	3.49%	1.25%	0.96%	-0.38%	2.31%
		Deaf-Blind	0%	0%	0%	-0.19%	0.19%	-0.18%
		Emotional Disability	0.62%	-0.09%	0.25%	-0.92%	0.70%	-0.45%
		Hearing Disability	-0.18%	-1.07%	1.06%	-1.11%	0.10%	0.33%
		Limited Intellectual Capacity	-4.14%	0.36%	1.10%	0.15%	-1.96%	-1.09%
		Multiple Disabilities	5.36%	-0.55%	-4.67%	2.90%	3.71%	0.34%
		Physical Disability	0.95%	-2.50%	2.04%	-1.00%	-0.15%	1.40%
		Specific Learning Disability	-0.88%	1.45%	-1.47%	-1.03%	-1.02%	-3.62%
		Speech/Language Disability	0.79%	-0.86%	0.09%	-0.17%	-0.89%	0.60%
		Traumatic Brain Injury	-0.30%	-0.19%	0.32%	0.21%	0.33%	-0.10%
	Ethnicity	Visual Disability	0.01%	-0.24%	0.23%	0.19%	-0.40%	0.05%
		Orthopedic impairment	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-
		American Indian/Alaska Native	1.03%	-0.56%	0.32%	-	-	-
		Asian	0.12%	-1.94%	0.90%	-	-	-
		Black/ African American	-0.68%	0.38%	-2.06%	-	-	-
		Hispanic/ Latino	1.25%	-1.65%	2.88%	-	-	-
		White	-2.13%	2.37%	-0.49%	-	-	-
Native Hawaiian/ Other Pacific Islander	0%	0%	-0.19%	-	-	-		
Two or More Races	0.40%	1.19%	-0.97%	-	-	-		

Table 71
Writing Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 10						
			2014	2013	2012	2011	2010	2009	2008
WR	Gender	Female	37.18%	40.04%	41.25%	38.16%	39.54%	39.96%	39.22%
		Male	62.27%	59.74%	58.56%	61.84%	60.25%	59.85%	60.78%
	Primary Disability	Autism	13.92%	12.21%	11.28%	10.61%	10.57%	8.26%	6.10%
		Deaf-Blind	0.18%	0%	0%	0%	0%	0%	0.22%
		Emotional Disability	0.55%	1.07%	0.78%	1.02%	0.63%	0.75%	1.31%
		Hearing Disability	0.37%	1.50%	0.19%	0.41%	0.85%	1.13%	2.83%
		Limited Intellectual Capacity	34.98%	33.19%	33.46%	35.31%	36.36%	38.09%	36.60%
		Multiple Disabilities	40.11%	40.90%	43.58%	42.04%	38.90%	36.21%	37.69%
		Physical Disability	4.03%	7.07%	5.45%	5.92%	5.29%	5.63%	8.28%
		Specific Learning Disability	3.48%	1.28%	2.72%	3.47%	5.07%	6.57%	5.01%
		Speech/Language Disability	0.37%	0.86%	0.97%	0.61%	1.27%	1.13%	0.87%
		Traumatic Brain Injury	1.28%	1.93%	1.36%	0.61%	0.63%	1.50%	1.09%
	Ethnicity	Visual Disability	0%	0%	0.19%	0%	0.21%	0.56%	0%
		Orthopedic impairment	0%	-	-	-	-	-	-
		Other health impairment	0.37%	-	-	-	-	-	-
		American Indian/Alaska Native	0.73%	1.28%	1.56%	2.25%	-	-	-
		Asian	2.20%	3.43%	2.92%	1.63%	-	-	-
		Black/ African American	7.51%	8.99%	8.17%	7.35%	-	-	-
		Hispanic/ Latino	32.78%	34.48%	31.13%	31.43%	-	-	-
		White	52.20%	49.46%	52.92%	55.51%	-	-	-
Native Hawaiian/ Other Pacific Islander	0.18%	0.21%	0.19%	0%	-	-	-		
Two or More Races	4.03%	2.14%	2.92%	1.63%	-	-	-		

Table 71
Writing Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 10					
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
WR	Gender	Female	-2.86%	-1.21%	3.09%	-1.37%	-0.43%	0.75%
		Male	2.53%	1.18%	-3.28%	1.58%	0.40%	-0.93%
	Primary Disability	Autism	1.71%	0.93%	0.67%	0.04%	2.32%	2.16%
		Deaf-Blind	0.18%	0%	0%	0%	0%	-0.22%
		Emotional Disability	-0.52%	0.29%	-0.24%	0.39%	-0.12%	-0.56%
		Hearing Disability	-1.13%	1.31%	-0.22%	-0.44%	-0.28%	-1.71%
		Limited Intellectual Capacity	1.79%	-0.27%	-1.85%	-1.06%	-1.72%	1.49%
		Multiple Disabilities	-0.79%	-2.68%	1.54%	3.14%	2.69%	-1.48%
		Physical Disability	-3.04%	1.62%	-0.47%	0.63%	-0.34%	-2.65%
		Specific Learning Disability	2.20%	-1.44%	-0.75%	-1.61%	-1.49%	1.56%
		Speech/Language Disability	-0.49%	-0.11%	0.36%	-0.66%	0.14%	0.26%
		Traumatic Brain Injury	-0.65%	0.57%	0.75%	-0.02%	-0.87%	0.41%
	Ethnicity	Visual Disability	0%	-0.19%	0.19%	-0.21%	-0.35%	0.56%
		Orthopedic impairment	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-
		American Indian/Alaska Native	-0.55%	-0.28%	-0.69%	-	-	-
		Asian	-1.23%	0.51%	1.29%	-	-	-
		Black/ African American	-1.48%	0.82%	0.82%	-	-	-
		Hispanic/ Latino	-1.70%	3.35%	-0.30%	-	-	-
		White	2.74%	-3.46%	-2.59%	-	-	-
Native Hawaiian/ Other Pacific Islander	-0.03%	0.02%	0.19%	-	-	-		
Two or More Races	1.89%	-0.78%	1.29%	-	-	-		

Table 72
Mathematics Longitudinal Subgroup Participation

			Grade 3							
Content	Variable	Subgroup	2014	2013	2012	2011	2010	2009	2008	2007
MA	Gender	Female	30.87%	35.05%	36.42%	36.44%	35.54%	33.03%	35.52%	39.29%
		Male	68.61%	64.64%	63.43%	63.41%	64.47%	66.52%	64.48%	60.71%
	Primary Disability	Autism	21.27%	16.69%	20.22%	17.98%	16.82%	14.09%	12.24%	8.57%
		Deaf-Blind	0%	0%	0%	0.16%	0.00%	0.30%	0%	0.37%
		Emotional Disability	0.51%	0.30%	0.62%	0.95%	1.73%	0.61%	1.72%	2.24%
		Hearing Disability	0.51%	0.30%	0.46%	0%	1.10%	0.61%	1.55%	0.75%
		Limited Intellectual Capacity	25.90%	25.80%	25.93%	24.61%	24.37%	28.03%	22.76%	27.93%
		Multiple Disabilities	32.76%	36.87%	31.79%	26.97%	29.09%	25.00%	26.21%	26.63%
		Physical Disability	11.84%	11.84%	12.50%	17.51%	12.74%	14.55%	13.62%	12.10%
		Specific Learning Disability	2.23%	3.79%	3.86%	5.52%	6.76%	8.33%	12.41%	12.10%
		Speech/Language Disability	1.54%	2.88%	3.70%	4.57%	5.98%	7.42%	8.62%	8.19%
		Traumatic Brain Injury	0.51%	1.37%	0.77%	1.58%	0.79%	1.06%	0.52%	0.56%
		Visual Disability	0.51%	0%	0%	0.16%	0.63%	0%	0.35%	0.37%
		Orthopedic impairment	0%	-	-	-	-	-	-	-
		Other health impairment	2.06%	-	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	0.86%	0.76%	1.08%	1.26%	-	-	-	-
		Asian	2.40%	1.82%	3.70%	2.21%	-	-	-	-
		Black/ African American	7.89%	7.44%	5.71%	6.15%	-	-	-	-
		Hispanic/ Latino	36.54%	38.39%	35.96%	37.07%	-	-	-	-
		White	48.03%	46.13%	49.69%	49.37%	-	-	-	-
Native Hawaiian/ Other Pacifi		1.03%	0.30%	0.15%	0%	-	-	-	-	
	Two or More Races	2.92%	4.86%	3.55%	3.94%	-	-	-	-	

Table 72
Mathematics Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 3						
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008	Difference 2008-2007
MA	Gender	Female	-4.18%	-1.37%	-0.01%	0.90%	2.51%	-2.49%	-3.78%
		Male	3.97%	1.21%	0.02%	-1.06%	-2.05%	2.03%	3.78%
	Primary Disability	Autism	4.58%	-3.53%	2.24%	1.16%	2.73%	1.85%	3.67%
		Deaf-Blind	0%	0%	-0.16%	0.16%	-0.30%	0.30%	-0.37%
		Emotional Disability	0.21%	-0.32%	-0.33%	-0.78%	1.12%	-1.12%	-0.52%
		Hearing Disability	0.21%	-0.16%	0.46%	-1.10%	0.50%	-0.95%	0.80%
		Limited Intellectual Capacity	0.10%	-0.13%	1.32%	0.23%	-3.66%	5.27%	-5.17%
		Multiple Disabilities	-4.11%	5.08%	4.82%	-2.12%	4.09%	-1.21%	-0.42%
		Physical Disability	0.00%	-0.66%	-5.01%	4.77%	-1.81%	0.92%	1.52%
		Specific Learning Disability	-1.56%	-0.07%	-1.66%	-1.24%	-1.57%	-4.08%	0.31%
		Speech/Language Disability	-1.34%	-0.82%	-0.87%	-1.40%	-1.45%	-1.20%	0.43%
		Traumatic Brain Injury	-0.86%	0.60%	-0.81%	0.79%	-0.28%	0.54%	-0.04%
		Visual Disability	0.51%	0%	-0.16%	-0.47%	0.63%	-0.35%	-0.03%
		Orthopedic impairment	-	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	0.10%	-0.32%	-0.18%	-	-	-	-
		Asian	0.58%	-1.88%	1.49%	-	-	-	-
		Black/ African American	0.45%	1.73%	-0.44%	-	-	-	-
		Hispanic/ Latino	-1.85%	2.43%	-1.11%	-	-	-	-
		White	1.90%	-3.56%	0.32%	-	-	-	-
Native Hawaiian/ Other Pacifi		0.73%	0.15%	0.15%	-	-	-	-	
	Two or More Races	-1.94%	1.31%	-0.39%	-	-	-	-	

Table 72
Mathematics Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 4							
			2014	2013	2012	2011	2010	2009	2008	2007
MA	Gender	Female	35.20%	36.48%	36.48%	35.36%	35.17%	38.05%	38.16%	38.39%
		Male	64.65%	63.52%	63.20%	64.47%	64.83%	61.79%	61.33%	61.02%
	Primary Disability	Autism	16.49%	21.42%	17.60%	16.45%	14.98%	12.36%	11.07%	8.47%
		Deaf-Blind	0%	0%	0.32%	0%	0.16%	0%	0.17%	0.20%
		Emotional Disability	0.15%	0.59%	0%	1.97%	0.16%	1.30%	2.39%	1.38%
		Hearing Disability	0.29%	0.30%	0.16%	0.33%	0.79%	0.65%	1.19%	1.97%
		Limited Intellectual Capacity	27.54%	27.33%	26.56%	26.97%	30.28%	24.07%	27.09%	30.51%
		Multiple Disabilities	39.03%	32.94%	32.16%	32.07%	26.81%	28.46%	30.66%	28.15%
		Physical Disability	10.01%	10.34%	14.72%	12.34%	13.88%	13.17%	10.56%	11.22%
		Specific Learning Disability	3.24%	3.25%	4.80%	6.41%	7.73%	12.20%	10.73%	10.83%
		Speech/Language Disability	1.03%	2.66%	2.08%	1.81%	3.94%	6.34%	4.26%	5.32%
		Traumatic Brain Injury	1.18%	1.03%	1.12%	0.99%	1.10%	0.98%	1.02%	1.18%
		Visual Disability	0.15%	0.15%	0.16%	0.49%	0.16%	0.33%	0.34%	0.39%
		Orthopedic impairment	0%	-	-	-	-	-	-	-
		Other health impairment	0.74%	-	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	1.33%	1.33%	1.12%	1.48%	-	-	-	-
		Asian	2.06%	3.69%	2.24%	2.63%	-	-	-	-
		Black/ African American	8.39%	6.50%	6.24%	6.09%	-	-	-	-
		Hispanic/ Latino	38.29%	36.63%	35.52%	34.21%	-	-	-	-
		White	45.51%	48.60%	50.40%	52.47%	-	-	-	-
Native Hawaiian/ Other Pacific Islander		0.44%	0.15%	0.16%	0.16%	-	-	-	-	
Two or More Races		3.83%	3.10%	4.00%	2.80%	-	-	-	-	

Table 72
Mathematics Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 4						
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008	Difference 2008-2007
MA	Gender	Female	-1%	0%	1.12%	0.19%	-2.88%	-0.11%	-0.23%
		Male	1.13%	0.32%	-1.27%	-0.35%	3.04%	0.46%	0.31%
	Primary Disability	Autism	-4.93%	3.82%	1.15%	1.46%	2.63%	1.29%	2.60%
		Deaf-Blind	0%	-0.32%	0.32%	-0.16%	0.16%	-0.17%	-0.03%
		Emotional Disability	-0.44%	0.59%	-1.97%	1.82%	-1.14%	-1.08%	1.01%
		Hearing Disability	-0.01%	0.14%	-0.17%	-0.46%	0.14%	-0.54%	-0.78%
		Limited Intellectual Capacity	0.21%	0.77%	-0.41%	-3.31%	6.22%	-3.02%	-3.42%
		Multiple Disabilities	6.09%	0.78%	0.09%	5.26%	-1.64%	-2.21%	2.51%
		Physical Disability	-0.33%	-4.38%	2.38%	-1.54%	0.71%	2.61%	-0.66%
		Specific Learning Disability	-0.01%	-1.55%	-1.61%	-1.32%	-4.47%	1.46%	-0.10%
		Speech/Language Disability	-1.63%	0.58%	0.27%	-2.13%	-2.40%	2.08%	-1.06%
		Traumatic Brain Injury	0.15%	-0.09%	0.13%	-0.12%	0.13%	-0.05%	-0.16%
		Visual Disability	0%	-0.01%	-0.33%	0.34%	-0.17%	-0.02%	-0.05%
		Orthopedic impairment	-	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	-0.27%	-0.27%	-0.47%	-	-	-	-
		Asian	0.50%	0.50%	1.28%	-	-	-	-
		Black/ African American	0.82%	0.82%	0.65%	-	-	-	-
		Hispanic/ Latino	3.54%	3.54%	-0.17%	-	-	-	-
		White	-3.43%	-3.43%	-2.76%	-	-	-	-
Native Hawaiian/ Other Pacific Islander		-0.19%	-0.19%	0.19%	-	-	-	-	
Two or More Races		-0.77%	-0.77%	1.28%	-	-	-	-	

Table 72
Mathematics Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 5							
			2014	2013	2012	2011	2010	2009	2008	2007
MA	Gender	Female	36.10%	37.74%	37.87%	36.03%	39.30%	39.46%	38.91%	40.51%
		Male	63.76%	62.11%	61.64%	63.51%	60.37%	60.20%	61.09%	59.28%
	Primary Disability	Autism	19.21%	16.54%	16.23%	14.75%	12.71%	11.91%	8.84%	9.07%
		Deaf-Blind	0%	0.15%	0%	0.16%	0%	0.34%	0.19%	0.21%
		Emotional Disability	0.58%	0.45%	0.49%	0.62%	1.17%	2.04%	1.50%	1.48%
		Hearing Disability	0.15%	0.15%	0.33%	0.31%	0.67%	0.85%	1.32%	0.84%
		Limited Intellectual Capacity	26.64%	30.53%	30.49%	32.30%	26.76%	29.25%	34.02%	31.86%
		Multiple Disabilities	37.26%	32.78%	32.95%	30.28%	29.77%	29.42%	30.08%	31.65%
		Physical Disability	8.15%	11.43%	11.64%	12.27%	11.71%	11.22%	9.21%	10.34%
		Specific Learning Disability	3.20%	4.51%	4.92%	6.06%	10.70%	8.84%	9.59%	9.49%
		Speech/Language Disability	1.31%	1.35%	1.48%	2.02%	5.35%	3.91%	4.32%	4.01%
		Traumatic Brain Injury	1.31%	1.95%	0.66%	0.93%	0.67%	1.19%	0.94%	0.21%
		Visual Disability	0.15%	0.15%	0.49%	0%	0.17%	0.68%	0%	0.21%
		Orthopedic impairment	0.29%	-	-	-	-	-	-	-
		Other health impairment	1.60%	-	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	0.87%	1.35%	1.31%	1.48%	-	-	-	-
		Asian	3.35%	2.41%	1.80%	2.63%	-	-	-	-
		Black/ African American	6.55%	5.56%	6.56%	6.09%	-	-	-	-
		Hispanic/ Latino	37.26%	37.74%	31.97%	34.21%	-	-	-	-
		White	48.76%	49.17%	54.43%	52.47%	-	-	-	-
Native Hawaiian/ Other Pacific Islander		0.44%	0%	0.16%	0.16%	-	-	-	-	
Two or More Races		2.62%	3.76%	3.28%	2.80%	-	-	-	-	

Table 72
Mathematics Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 5						
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008	Difference 2008-2007
MA	Gender	Female	-1.64%	-0.13%	1.85%	-3.27%	-0.16%	0.55%	-1.60%
		Male	1.65%	0.47%	-1.87%	3.14%	0.16%	-0.89%	1.81%
	Primary Disability	Autism	2.67%	0.31%	1.48%	2.04%	0.80%	3.07%	-0.24%
		Deaf-Blind	-0.15%	0.15%	-0.16%	0.16%	-0.34%	0.15%	-0.02%
		Emotional Disability	0.13%	-0.04%	-0.13%	-0.55%	-0.87%	0.54%	0.02%
		Hearing Disability	0%	-0.18%	0.02%	-0.36%	-0.18%	-0.47%	0.48%
		Limited Intellectual Capacity	-3.89%	0.04%	-1.81%	5.54%	-2.50%	-4.77%	2.16%
		Multiple Disabilities	4.48%	-0.17%	2.67%	0.51%	0.34%	-0.65%	-1.58%
		Physical Disability	-3.28%	-0.21%	-0.63%	0.56%	0.48%	2.01%	-1.13%
		Specific Learning Disability	-1.31%	-0.41%	-1.14%	-4.65%	1.86%	-0.74%	0.10%
		Speech/Language Disability	-0.04%	-0.13%	-0.54%	-3.33%	1.44%	-0.41%	0.31%
		Traumatic Brain Injury	-0.64%	1.29%	-0.27%	0.26%	-0.52%	0.25%	0.73%
		Visual Disability	0%	-0.34%	0.49%	-0.17%	-0.51%	0.68%	-0.21%
		Orthopedic impairment	-	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	-0.48%	0.04%	-0.17%	-	-	-	-
		Asian	0.94%	0.61%	-0.83%	-	-	-	-
		Black/ African American	0.99%	-1.00%	0.47%	-	-	-	-
		Hispanic/ Latino	-0.48%	5.77%	-2.24%	-	-	-	-
		White	-0.41%	-5.26%	1.96%	-	-	-	-
Native Hawaiian/ Other Pacific Islander		0.44%	-0.16%	0%	-	-	-	-	
Two or More Races		-1.14%	0.48%	0.48%	-	-	-	-	

Table 72
Mathematics Longitudinal Subgroup Participation (continued)

			Grade 6							
Content	Variable	Subgroup	2014	2013	2012	2011	2010	2009	2008	2007
MA	Gender	Female	37.77%	37.64%	36.45%	37.48%	39.55%	37.68%	40.83%	33.78%
		Male	61.77%	61.90%	63.23%	62.52%	60.45%	61.96%	58.41%	66.02%
	Primary Disability	Autism	15.60%	16.17%	14.10%	14.69%	14.34%	11.23%	9.07%	8.30%
		Deaf-Blind	0%	0.16%	0%	0%	0.52%	0.36%	0.19%	0%
		Emotional Disability	0%	0.93%	0.48%	1.13%	0.69%	1.27%	1.51%	1.35%
		Hearing Disability	0.15%	0.31%	0.32%	0.19%	0.86%	1.81%	1.13%	1.54%
		Limited Intellectual Capacity	30.12%	34.21%	33.12%	32.39%	30.57%	34.24%	28.36%	31.47%
		Multiple Disabilities	38.07%	34.06%	32.33%	32.39%	30.92%	28.80%	35.35%	33.40%
		Physical Disability	8.41%	7.62%	13.47%	10.55%	8.64%	7.07%	8.51%	10.43%
		Specific Learning Disability	3.52%	3.73%	3.80%	5.09%	8.98%	10.51%	11.34%	9.07%
		Speech/Language Disability	0.76%	1.56%	0.95%	2.45%	2.59%	2.72%	2.84%	2.90%
		Traumatic Brain Injury	1.99%	0.62%	0.95%	1.13%	1.21%	1.45%	0.76%	0.97%
		Visual Disability	0.15%	0.62%	0.16%	0%	0.69%	0.18%	0.38%	0.19%
		Orthopedic impairment	0%	-	-	-	-	-	-	-
		Other health impairment	0.76%	-	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	0.76%	1.24%	0.95%	1.48%	-	-	-	-
		Asian	2.29%	1.71%	1.74%	2.63%	-	-	-	-
		Black/ African American	6.57%	7.00%	6.81%	6.09%	-	-	-	-
		Hispanic/ Latino	39.14%	32.50%	36.29%	34.21%	-	-	-	-
		White	46.48%	53.19%	50.55%	52.47%	-	-	-	-
Native Hawaiian/ Other Pacific Islander		0.31%	0.16%	0.32%	0.16%	-	-	-	-	
Two or More Races		4.13%	3.58%	3.01%	2.80%	-	-	-	-	

Table 72
Mathematics Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 6						
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008	Difference 2008-2007
MA	Gender	Female	0.13%	1.19%	-1.03%	-2.08%	1.87%	-3.15%	7.05%
		Male	-0.13%	-1.33%	0.71%	2.08%	-1.51%	3.55%	-7.61%
	Primary Disability	Autism	-0.57%	2.07%	-0.59%	0.35%	3.10%	2.16%	0.77%
		Deaf-Blind	-0.16%	0.16%	0%	-0.52%	0.16%	0.17%	0.19%
		Emotional Disability	-0.93%	0.45%	-0.65%	0.44%	-0.58%	-0.24%	0.16%
		Hearing Disability	-0.16%	-0.01%	0.13%	-0.68%	-0.95%	0.68%	-0.41%
		Limited Intellectual Capacity	-4.09%	1.09%	0.73%	1.82%	-3.67%	5.88%	-3.12%
		Multiple Disabilities	4.01%	1.73%	-0.06%	1.48%	2.11%	-6.55%	1.95%
		Physical Disability	0.79%	-5.85%	2.92%	1.91%	1.57%	-1.44%	-1.92%
		Specific Learning Disability	-0.21%	-0.07%	-1.29%	-3.90%	-1.53%	-0.84%	2.27%
		Speech/Language Disability	-0.80%	0.61%	-1.50%	-0.14%	-0.13%	-0.12%	-0.06%
		Traumatic Brain Injury	1.37%	-0.33%	-0.18%	-0.08%	-0.24%	0.69%	-0.21%
		Visual Disability	-0.47%	0.46%	0.16%	-0.69%	0.51%	-0.20%	0.19%
		Orthopedic impairment	-	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	-0.27%	-0.27%	-0.47%	-	-	-	-
		Asian	0.50%	0.50%	1.28%	-	-	-	-
		Black/ African American	0.82%	0.82%	0.65%	-	-	-	-
		Hispanic/ Latino	3.54%	3.54%	-0.17%	-	-	-	-
		White	-3.43%	-3.43%	-2.76%	-	-	-	-
Native Hawaiian/ Other Pacific Islander		-0.19%	-0.19%	0.19%	-	-	-	-	
Two or More Races		-0.77%	-0.77%	1.28%	-	-	-	-	

Table 72
Mathematics Longitudinal Subgroup Participation (continued)

			Grade 7							
Content	Variable	Subgroup	2014	2013	2012	2011	2010	2009	2008	2007
MA	Gender	Female	37.76%	37.13%	36.99%	39.15%	38.75%	40.23%	35.65%	38.17%
		Male	61.92%	62.38%	63.01%	60.50%	61.06%	59.01%	64.36%	61.41%
	Primary Disability	Autism	13.92%	15.51%	15.61%	14.59%	10.40%	10.63%	8.86%	8.74%
		Deaf-Blind	0%	0.17%	0.19%	0.53%	0%	0.19%	0%	0%
		Emotional Disability	0.16%	0.50%	0.58%	0.53%	0.76%	1.52%	1.35%	0.85%
		Hearing Disability	0%	0.33%	0.00%	0.36%	1.70%	0.95%	1.35%	1.07%
		Limited Intellectual Capacity	32.80%	35.31%	31.98%	33.99%	36.11%	30.36%	30.44%	34.54%
		Multiple Disabilities	40.32%	32.67%	37.38%	31.67%	32.89%	36.43%	36.42%	32.41%
		Physical Disability	6.88%	10.56%	7.13%	8.54%	8.32%	8.16%	8.67%	7.25%
		Specific Learning Disability	3.36%	2.48%	5.20%	6.58%	6.81%	8.16%	9.83%	11.94%
		Speech/Language Disability	0.48%	0.50%	0.58%	1.25%	1.51%	2.66%	0.96%	1.71%
		Traumatic Brain Injury	0.64%	1.49%	1.35%	1.25%	1.32%	0.76%	2.12%	0.64%
		Visual Disability	0.16%	0%	0%	0.53%	0.19%	0.19%	0%	0.21%
		Orthopedic impairment	0.16%	-	-	-	-	-	-	-
		Other health impairment	0.80%	-	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	1.76%	1.16%	0.96%	0.71%	-	-	-	-
		Asian	1.92%	1.82%	1.35%	2.31%	-	-	-	-
		Black/ African American	7.04%	7.26%	7.71%	8.01%	-	-	-	-
		Hispanic/ Latino	33.12%	36.96%	32.76%	33.81%	-	-	-	-
		White	51.52%	49.50%	54.53%	52.14%	-	-	-	-
Native Hawaiian/ Other Pacific Islander		0.16%	0.33%	0.39%	0.18%	-	-	-	-	
Two or More Races		4.00%	2.48%	2.31%	2.49%	-	-	-	-	

Table 72
Mathematics Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 7						
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008	Difference 2008-2007
MA	Gender	Female	0.63%	0.14%	-2.16%	0.39%	-1.48%	4.58%	-2.52%
		Male	-0.46%	-0.63%	2.51%	-0.56%	2.05%	-5.34%	2.95%
	Primary Disability	Autism	-1.59%	-0.10%	1.02%	4.19%	-0.23%	1.76%	0.12%
		Deaf-Blind	-0.17%	-0.02%	-0.34%	0.53%	-0.19%	0.19%	0%
		Emotional Disability	-0.34%	-0.08%	0.05%	-0.22%	-0.76%	0.17%	0.50%
		Hearing Disability	-0.33%	0.33%	-0.36%	-1.35%	0.75%	-0.40%	0.28%
		Limited Intellectual Capacity	-2.51%	3.33%	-2.01%	-2.12%	5.75%	-0.08%	-4.10%
		Multiple Disabilities	7.65%	-4.71%	5.71%	-1.22%	-3.54%	0.02%	4.01%
		Physical Disability	-3.68%	3.43%	-1.41%	0.22%	0.16%	-0.51%	1.42%
		Specific Learning Disability	0.88%	-2.72%	-1.38%	-0.22%	-1.35%	-1.67%	-2.11%
		Speech/Language Disability	-0.02%	-0.08%	-0.67%	-0.27%	-1.15%	1.69%	-0.75%
		Traumatic Brain Injury	-0.85%	0.14%	0.10%	-0.08%	0.56%	-1.36%	1.48%
		Visual Disability	0.16%	0%	-0.53%	0.35%	0%	0.19%	-0.21%
		Orthopedic impairment	-	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	0.60%	0.20%	0.25%	-	-	-	-
		Asian	0.10%	0.47%	-0.96%	-	-	-	-
		Black/ African American	-0.22%	-0.45%	-0.30%	-	-	-	-
		Hispanic/ Latino	-3.84%	4.20%	-1.05%	-	-	-	-
		White	2.02%	-5.03%	2.40%	-	-	-	-
Native Hawaiian/ Other Pacific Islander		-0.17%	-0.06%	0.21%	-	-	-	-	
Two or More Races		1.52%	0.17%	-0.18%	-	-	-	-	

Table 72
Mathematics Longitudinal Subgroup Participation (continued)

			Grade 8							
Content	Variable	Subgroup	2014	2013	2012	2011	2010	2009	2008	2007
MA	Gender	Female	39.39%	38.45%	38.46%	40.91%	40.08%	37.64%	39.53%	39.96%
		Male	60.44%	61.55%	61.54%	59.09%	59.54%	62.18%	60.47%	59.67%
	Primary Disability	Autism	14.77%	14.34%	14.47%	11.27%	10.31%	10.33%	9.20%	9.31%
		Deaf-Blind	0%	0.20%	0.55%	0.20%	0%	0%	0%	0.18%
		Emotional Disability	0.85%	0.80%	0.37%	0.40%	0.76%	1.11%	1.76%	0.73%
		Hearing Disability	0.34%	0%	0.37%	0.99%	0.95%	1.48%	1.37%	0.73%
		Limited Intellectual Capacity	31.41%	34.06%	36.26%	34.98%	32.25%	31.00%	33.46%	36.13%
		Multiple Disabilities	39.39%	39.04%	33.70%	36.96%	39.70%	38.01%	35.81%	35.95%
		Physical Disability	7.98%	7.17%	8.42%	8.10%	8.40%	8.30%	6.07%	5.66%
		Specific Learning Disability	2.72%	2.99%	3.48%	4.55%	4.58%	6.83%	9.20%	6.02%
		Speech/Language Disability	0.34%	0.60%	0.55%	0.59%	2.10%	1.66%	1.96%	2.19%
		Traumatic Brain Injury	1.36%	0.60%	1.47%	1.58%	0.76%	1.29%	0.59%	1.64%
		Visual Disability	0%	0.20%	0.37%	0.40%	0.19%	0%	0.59%	0.37%
		Orthopedic impairment	0%	-	-	-	-	-	-	-
		Other health impairment	0.68%	-	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	0.51%	1.79%	0.55%	1.38%	-	-	-	-
		Asian	1.87%	1.99%	2.20%	3.76%	-	-	-	-
		Black/ African American	7.30%	7.57%	7.51%	7.12%	-	-	-	-
		Hispanic/ Latino	39.05%	33.07%	32.60%	33.20%	-	-	-	-
		White	48.39%	53.39%	54.76%	53.16%	-	-	-	-
Native Hawaiian/ Other Pacific Islander		0.34%	0%	0%	0%	-	-	-	-	
	Two or More Races	2.21%	2.19%	2.38%	1.38%	-	-	-	-	

Table 72
Mathematics Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 8							
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008	Difference 2008-2007	
MA	Gender	Female	0.94%	-0.01%	-2.45%	0.83%	2.44%	-1.89%	-0.43%	
		Male	-1.11%	0.01%	2.45%	-0.45%	-2.64%	1.71%	0.80%	
	Primary Disability	Autism	0.43%	-0.13%	3.21%	0.96%	-0.03%	1.13%	-0.11%	
		Deaf-Blind	-0.20%	-0.35%	0.35%	0.20%	0%	0%	-0.18%	
		Emotional Disability	0.05%	0.43%	-0.03%	-0.37%	-0.34%	-0.65%	1.03%	
		Hearing Disability	0.34%	-0.37%	-0.62%	0.03%	-0.52%	0.11%	0.64%	
		Limited Intellectual Capacity	-2.65%	-2.20%	1.28%	2.73%	1.26%	-2.47%	-2.67%	
		Multiple Disabilities	0.35%	5.34%	-3.26%	-2.74%	1.69%	2.20%	-0.14%	
		Physical Disability	0.81%	-1.25%	0.32%	-0.29%	0.09%	2.24%	0.41%	
		Specific Learning Disability	-0.27%	-0.49%	-1.07%	-0.04%	-2.25%	-2.37%	3.18%	
		Speech/Language Disability	-0.26%	0.05%	-0.04%	-1.51%	0.44%	-0.30%	-0.23%	
		Traumatic Brain Injury	0.76%	-0.87%	-0.11%	0.82%	-0.53%	0.71%	-1.05%	
		Visual Disability	-0.20%	-0.17%	-0.03%	0.20%	0.19%	-0.59%	0.22%	
		Orthopedic impairment	-	-	-	-	-	-	-	
		Other health impairment	-	-	-	-	-	-	-	
		Ethnicity	American Indian/Alaska Native	-1.28%	1.24%	-0.83%	-	-	-	-
			Asian	-0.12%	-0.21%	-1.56%	-	-	-	-
			Black/ African American	-0.27%	0.06%	0.40%	-	-	-	-
Hispanic/ Latino	5.98%		0.47%	-0.60%	-	-	-	-		
White	-5.00%		-1.37%	1.60%	-	-	-	-		
Native Hawaiian/ Other Pacific Islander	0.34%		0%	0%	-	-	-	-		
Two or More Races	0.02%		-0.19%	1.00%	-	-	-	-		

Table 72
Mathematics Longitudinal Subgroup Participation (continued)

			Grade 9							
Content	Variable	Subgroup	2014	2013	2012	2011	2010	2009	2008	2007
MA	Gender	Female	36.08%	37.01%	38.49%	40.79%	37.06%	39.21%	41.03%	39.50%
		Male	63.72%	62.81%	61.51%	58.84%	62.75%	60.59%	58.97%	60.29%
	Primary Disability	Autism	12.28%	15.12%	11.41%	10.90%	9.17%	10.10%	8.17%	6.30%
		Deaf-Blind	0%	0.18%	0%	0%	0.18%	0%	0.18%	0.42%
		Emotional Disability	1.34%	0.53%	0.61%	0.56%	1.65%	0.59%	1.07%	1.05%
		Hearing Disability	0%	0.18%	1.22%	0.19%	1.65%	1.19%	0.53%	2.94%
		Limited Intellectual Capacity	32.05%	35.59%	35.44%	34.02%	33.95%	35.84%	37.83%	38.66%
		Multiple Disabilities	41.46%	36.48%	36.86%	41.17%	38.53%	34.06%	34.46%	34.45%
		Physical Disability	6.53%	5.52%	8.35%	6.39%	6.79%	7.72%	5.51%	7.98%
		Specific Learning Disability	3.45%	4.09%	2.85%	4.32%	5.87%	6.73%	9.59%	5.25%
		Speech/Language Disability	0.96%	0.53%	1.43%	0.94%	0.92%	2.18%	1.60%	1.26%
		Traumatic Brain Injury	0.96%	1.42%	1.43%	1.13%	1.10%	0.79%	0.71%	1.26%
		Visual Disability	0.19%	0.18%	0.41%	0.19%	0%	0.40%	0.36%	0.21%
		Orthopedic impairment	0%	-	-	-	-	-	-	-
		Other health impairment	0.58%	-	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	1.92%	0.89%	1.43%	1.32%	-	-	-	-
		Asian	1.73%	1.78%	4.07%	2.82%	-	-	-	-
		Black/ African American	6.33%	6.94%	6.72%	8.65%	-	-	-	-
		Hispanic/ Latino	33.40%	32.38%	34.42%	31.02%	-	-	-	-
		White	52.98%	54.80%	51.53%	52.63%	-	-	-	-
Native Hawaiian/ Other Pacific Islander		0%	0%	0%	0.19%	-	-	-	-	
Two or More Races		3.45%	3.02%	1.83%	3.01%	-	-	-	-	

Table 72
Mathematics Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 9						
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008	Difference 2008-2007
MA	Gender	Female	-0.93%	-1.48%	-2.30%	3.72%	-2.14%	-1.82%	1.53%
		Male	0.91%	1.30%	2.67%	-3.92%	2.16%	1.62%	-1.32%
	Primary Disability	Autism	-2.84%	3.71%	0.51%	1.73%	-0.92%	1.93%	1.87%
		Deaf-Blind	-0.18%	0.18%	0%	-0.18%	0.18%	-0.18%	-0.24%
		Emotional Disability	0.81%	-0.08%	0.05%	-1.09%	1.06%	-0.47%	0.02%
		Hearing Disability	-0.18%	-1.04%	1.03%	-1.46%	0.46%	0.66%	-2.41%
		Limited Intellectual Capacity	-3.54%	0.15%	1.42%	0.08%	-1.90%	-1.99%	-0.83%
		Multiple Disabilities	4.98%	-0.38%	-4.31%	2.63%	4.47%	-0.40%	0.01%
		Physical Disability	1.01%	-2.83%	1.96%	-0.40%	-0.93%	2.22%	-2.47%
		Specific Learning Disability	-0.64%	1.24%	-1.47%	-1.55%	-0.86%	-2.86%	4.34%
		Speech/Language Disability	0.43%	-0.90%	0.49%	0.02%	-1.26%	0.58%	0.34%
		Traumatic Brain Injury	-0.46%	-0.01%	0.30%	0.03%	0.31%	0.08%	-0.55%
		Visual Disability	0.01%	-0.23%	0.22%	0.19%	-0.40%	0.04%	0.15%
		Orthopedic impairment	-	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	1.03%	-0.54%	0.11%	-	-	-	-
		Asian	-0.05%	-2.29%	1.25%	-	-	-	-
		Black/ African American	-0.61%	0.22%	-1.93%	-	-	-	-
		Hispanic/ Latino	1.02%	-2.04%	3.41%	-	-	-	-
		White	-1.82%	3.27%	-1.10%	-	-	-	-
Native Hawaiian/ Other Pacific Islander		0%	0%	-0.19%	-	-	-	-	
Two or More Races		0.43%	1.19%	-1.18%	-	-	-	-	

Table 72
Mathematics Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 10							
			2014	2013	2012	2011	2010	2009	2008	2007
MA	Gender	Female	37.02%	40.21%	41.20%	38.79%	40.57%	40.30%	39.53%	36.91%
		Male	62.43%	59.57%	58.61%	61.21%	59.23%	59.52%	60.48%	62.86%
	Primary Disability	Autism	13.61%	11.70%	11.03%	10.10%	10.95%	8.87%	5.83%	6.04%
		Deaf-Blind	0.18%	0%	0%	0%	0%	0%	0.22%	0%
		Emotional Disability	0.54%	1.06%	0.97%	1.01%	0.61%	0.92%	1.30%	1.57%
		Hearing Disability	0.36%	1.28%	0.19%	0.40%	0.81%	0.92%	3.02%	1.57%
		Limited Intellectual Capacity	35.03%	32.98%	33.66%	35.35%	35.70%	37.89%	37.37%	33.33%
		Multiple Disabilities	40.29%	40.43%	43.52%	41.82%	37.53%	35.86%	36.72%	41.61%
		Physical Disability	3.81%	7.45%	5.61%	5.86%	6.29%	5.55%	8.21%	8.28%
		Specific Learning Disability	3.45%	1.91%	2.51%	4.04%	5.68%	6.65%	4.97%	5.15%
		Speech/Language Disability	0.54%	1.28%	0.97%	0.61%	1.22%	1.29%	1.30%	2.01%
		Traumatic Brain Injury	1.45%	1.91%	1.35%	0.81%	0.81%	1.29%	1.08%	0.45%
		Visual Disability	0%	0%	0.19%	0%	0.20%	0.56%	0%	0%
		Orthopedic impairment	0%	-	-	-	-	-	-	-
		Other health impairment	0.36%	-	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	0.73%	1.28%	1.55%	2.02%	-	-	-	-
		Asian	2.18%	3.40%	2.90%	1.62%	-	-	-	-
		Black/ African American	7.44%	8.94%	8.12%	7.48%	-	-	-	-
		Hispanic/ Latino	32.30%	34.68%	31.14%	31.31%	-	-	-	-
		White	52.99%	49.57%	53.00%	55.76%	-	-	-	-
Native Hawaiian/ Other Pacific Islander		0.18%	0%	0.19%	0%	-	-	-	-	
	Two or More Races	3.81%	2.13%	2.90%	1.62%	-	-	-	-	

Table 72
Mathematics Longitudinal Subgroup Participation (continued)

Content	Variable	Subgroup	Grade 10						
			Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008	Difference 2008-2007
MA	Gender	Female	-3.19%	-0.99%	2.41%	-1.78%	0.27%	0.77%	2.61%
		Male	2.86%	0.96%	-2.60%	1.98%	-0.29%	-0.96%	-2.39%
	Primary Disability	Autism	1.91%	0.67%	0.93%	-0.85%	2.08%	3.04%	-0.21%
		Deaf-Blind	0.18%	0%	0%	0%	0%	-0.22%	0.22%
		Emotional Disability	-0.52%	0.09%	-0.04%	0.40%	-0.32%	-0.37%	-0.27%
		Hearing Disability	-0.92%	1.09%	-0.21%	-0.41%	-0.11%	-2.10%	1.45%
		Limited Intellectual Capacity	2.05%	-0.68%	-1.69%	-0.35%	-2.19%	0.53%	4.04%
		Multiple Disabilities	-0.14%	-3.09%	1.70%	4.29%	1.67%	-0.86%	-4.89%
		Physical Disability	-3.64%	1.84%	-0.25%	-0.43%	0.74%	-2.66%	-0.07%
		Specific Learning Disability	1.54%	-0.60%	-1.53%	-1.64%	-0.97%	1.69%	-0.18%
		Speech/Language Disability	-0.74%	0.31%	0.36%	-0.61%	-0.08%	0%	-0.71%
		Traumatic Brain Injury	-0.46%	0.56%	0.54%	0%	-0.48%	0.21%	0.63%
		Visual Disability	0%	-0.19%	0.19%	-0.20%	-0.35%	0.56%	0%
		Orthopedic impairment	-	-	-	-	-	-	-
		Other health impairment	-	-	-	-	-	-	-
	Ethnicity	American Indian/Alaska Native	-0.55%	-0.27%	-0.47%	-	-	-	-
		Asian	-1.22%	0.50%	1.28%	-	-	-	-
		Black/ African American	-1.50%	0.82%	0.65%	-	-	-	-
		Hispanic/ Latino	-2.38%	3.54%	-0.17%	-	-	-	-
		White	3.42%	-3.43%	-2.76%	-	-	-	-
Native Hawaiian/ Other Pacific Islander		0.18%	-0.19%	0.19%	-	-	-	-	
Two or More Races		1.68%	-0.77%	1.28%	-	-	-	-	

Table 73
Reading Longitudinal Summary of *P*-values

Content	Grade	High <i>P</i> -value						
		2014	2013	2012	2011	2010	2009	2008
RD	3	0.87	0.85	0.84	0.86	0.85	0.85	0.87
	4	0.84	0.83	0.84	0.86	0.86	0.86	0.88
	5	0.85	0.89	0.86	0.87	0.86	0.89	0.87
	6	0.87	0.87	0.89	0.84	0.88	0.86	0.85
	7	0.85	0.87	0.85	0.87	0.84	0.85	0.85
	8	0.84	0.87	0.86	0.83	0.84	0.81	0.87
	9	0.85	0.84	0.82	0.82	0.83	0.80	0.85
	10	0.75	0.74	0.75	0.74	0.74	0.76	0.70

Content	Grade	Mean <i>P</i> -value						
		2014	2013	2012	2011	2010	2009	2008
RD	3	0.54	0.54	0.54	0.56	0.56	0.57	0.59
	4	0.54	0.53	0.55	0.56	0.57	0.58	0.58
	5	0.56	0.59	0.56	0.60	0.59	0.60	0.59
	6	0.61	0.62	0.62	0.61	0.62	0.61	0.61
	7	0.53	0.55	0.55	0.55	0.54	0.53	0.53
	8	0.52	0.54	0.54	0.51	0.52	0.51	0.54
	9	0.55	0.54	0.53	0.52	0.53	0.53	0.54
	10	0.50	0.50	0.50	0.48	0.49	0.51	0.48

Content	Grade	Low <i>P</i> -value						
		2014	2013	2012	2011	2010	2009	2008
RD	3	0.23	0.24	0.24	0.28	0.27	0.25	0.28
	4	0.24	0.23	0.25	0.27	0.24	0.26	0.27
	5	0.23	0.26	0.24	0.25	0.24	0.25	0.27
	6	0.25	0.23	0.23	0.21	0.24	0.23	0.18
	7	0.23	0.23	0.25	0.26	0.25	0.23	0.23
	8	0.31	0.32	0.34	0.30	0.30	0.29	0.33
	9	0.29	0.27	0.29	0.26	0.28	0.28	0.27
	10	0.26	0.27	0.26	0.26	0.27	0.25	0.25

Table 73
Reading Longitudinal Summary of *P*-values (continued)

		High <i>P</i> -value					
Content	Grade	Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
RD	3	0.02	0.01	-0.02	0.02	0.00	-0.02
	4	0.02	-0.02	-0.02	0.00	0.00	-0.02
	5	-0.03	0.03	-0.02	0.01	-0.03	0.02
	6	-0.01	-0.02	0.05	-0.03	0.01	0.01
	7	-0.02	0.02	-0.02	0.03	-0.01	0.00
	8	-0.03	0.02	0.03	-0.01	0.03	-0.06
	9	0.01	0.02	0.00	-0.01	0.03	-0.05
	10	0.01	-0.01	0.01	0.01	-0.02	0.06

		Mean <i>P</i> -value					
Content	Grade	Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
RD	3	0.00	0.01	-0.02	0.00	-0.01	-0.02
	4	0.01	-0.02	-0.01	-0.01	-0.01	0.00
	5	-0.04	0.03	-0.04	0.01	-0.01	0.01
	6	-0.01	-0.01	0.01	-0.01	0.01	0.01
	7	-0.02	0.01	-0.01	0.02	0.00	0.01
	8	-0.01	0.00	0.03	-0.01	0.01	-0.02
	9	0.02	0.01	0.00	-0.01	0.00	-0.01
	10	0.00	0.00	0.01	-0.01	-0.03	0.04

		Low <i>P</i> -value					
Content	Grade	Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
RD	3	-0.01	0.00	-0.04	0.01	0.02	-0.03
	4	0.00	-0.02	-0.02	0.03	-0.02	-0.01
	5	-0.03	0.02	-0.01	0.01	-0.01	-0.02
	6	0.02	0.01	0.02	-0.03	0.01	0.04
	7	0.00	-0.01	-0.01	0.00	0.03	0.00
	8	-0.01	-0.03	0.05	-0.01	0.01	-0.04
	9	0.01	-0.02	0.04	-0.03	0.00	0.01
	10	-0.01	0.01	0.00	-0.01	0.02	0.00

Table 74
Writing Longitudinal Summary of *P*-values

Content	Grade	High <i>P</i> -value						
		2014	2013	2012	2011	2010	2009	2008
WR	3	0.81	0.80	0.79	0.79	0.81	0.81	0.83
	4	0.79	0.79	0.78	0.79	0.82	0.81	0.84
	5	0.81	0.83	0.80	0.84	0.82	0.84	0.83
	6	0.83	0.83	0.85	0.82	0.86	0.82	0.83
	7	0.83	0.86	0.82	0.85	0.83	0.85	0.81
	8	0.83	0.84	0.86	0.81	0.85	0.82	0.86
	9	0.81	0.81	0.79	0.81	0.80	0.83	0.84
	10	0.83	0.81	0.83	0.80	0.82	0.84	0.82

Content	Grade	Mean <i>P</i> -value						
		2014	2013	2012	2011	2010	2009	2008
WR	3	0.51	0.50	0.49	0.52	0.53	0.54	0.55
	4	0.50	0.49	0.52	0.51	0.54	0.54	0.55
	5	0.55	0.58	0.54	0.58	0.58	0.59	0.58
	6	0.59	0.59	0.60	0.59	0.61	0.59	0.58
	7	0.56	0.58	0.57	0.58	0.57	0.57	0.55
	8	0.55	0.56	0.55	0.54	0.54	0.53	0.55
	9	0.56	0.55	0.53	0.53	0.53	0.54	0.55
	10	0.54	0.53	0.53	0.51	0.52	0.54	0.51

Content	Grade	Low <i>P</i> -value						
		2014	2013	2012	2011	2010	2009	2008
WR	3	0.27	0.26	0.25	0.25	0.24	0.26	0.30
	4	0.18	0.20	0.19	0.20	0.19	0.22	0.21
	5	0.22	0.25	0.22	0.23	0.25	0.23	0.25
	6	0.35	0.36	0.34	0.36	0.37	0.32	0.33
	7	0.21	0.23	0.23	0.21	0.22	0.24	0.21
	8	0.27	0.27	0.27	0.27	0.27	0.25	0.25
	9	0.30	0.29	0.27	0.26	0.27	0.29	0.24
	10	0.17	0.18	0.19	0.15	0.16	0.19	0.17

Table 74
Writing Longitudinal Summary of *P*-values (continued)

		High <i>P</i> -value					
Content	Grade	Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
WR	3	0.02	0.01	0.00	-0.02	0.00	-0.02
	4	0.00	0.00	-0.01	-0.03	0.01	-0.03
	5	-0.02	0.04	-0.04	0.01	-0.02	0.01
	6	-0.01	-0.02	0.03	-0.04	0.03	-0.01
	7	-0.03	0.03	-0.02	0.01	-0.02	0.03
	8	-0.01	-0.01	0.05	-0.04	0.03	-0.04
	9	0.00	0.03	-0.02	0.01	-0.04	0.00
	10	0.02	-0.02	0.04	-0.03	-0.02	0.02

		Mean <i>P</i> -value					
Content	Grade	Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
WR	3	0.01	0.01	-0.02	-0.01	-0.01	-0.02
	4	0.01	-0.02	0.01	-0.03	-0.01	0.00
	5	-0.04	0.04	-0.04	0.00	-0.01	0.01
	6	0.00	-0.01	0.01	-0.02	0.01	0.02
	7	-0.02	0.01	-0.01	0.02	-0.01	0.02
	8	-0.01	0.01	0.02	0.00	0.01	-0.02
	9	0.01	0.01	0.01	0.00	-0.01	0.00
	10	0.01	0.00	0.02	-0.01	-0.02	0.03

		Low <i>P</i> -value					
Content	Grade	Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
WR	3	0.01	0.01	0.00	0.01	-0.01	-0.04
	4	-0.01	0.01	-0.02	0.02	-0.04	0.02
	5	-0.04	0.04	-0.01	-0.02	0.02	-0.02
	6	-0.01	0.02	-0.02	-0.01	0.05	-0.01
	7	-0.02	-0.01	0.02	-0.01	-0.01	0.02
	8	0.00	0.00	0.00	0.00	0.02	0.00
	9	0.01	0.03	0.01	-0.01	-0.01	0.04
	10	-0.01	-0.01	0.04	-0.01	-0.03	0.02

Table 75
Mathematics Longitudinal Summary of *P*-values

Content	Grade	High <i>P</i> -value							
		2014	2013	2012	2011	2010	2009	2008	2007
MA	3	0.88	0.85	0.86	0.89	0.87	0.87	0.88	0.90
	4	0.87	0.86	0.86	0.87	0.89	0.89	0.91	0.90
	5	0.84	0.85	0.84	0.86	0.84	0.86	0.86	0.87
	6	0.82	0.85	0.86	0.84	0.83	0.81	0.79	0.79
	7	0.80	0.82	0.81	0.81	0.80	0.81	0.78	0.82
	8	0.81	0.84	0.81	0.80	0.81	0.80	0.81	0.81
	9	0.76	0.76	0.76	0.78	0.76	0.76	0.77	0.72
	10	0.81	0.82	0.79	0.79	0.83	0.82	0.83	0.81

Content	Grade	Mean <i>P</i> -value							
		2014	2013	2012	2011	2010	2009	2008	2007
MA	3	0.62	0.62	0.60	0.62	0.63	0.64	0.65	0.67
	4	0.62	0.60	0.61	0.61	0.64	0.64	0.66	0.63
	5	0.56	0.59	0.56	0.59	0.59	0.61	0.59	0.60
	6	0.58	0.58	0.60	0.58	0.60	0.58	0.57	0.57
	7	0.52	0.55	0.54	0.55	0.53	0.53	0.53	0.55
	8	0.53	0.55	0.56	0.54	0.53	0.52	0.55	0.52
	9	0.47	0.47	0.46	0.46	0.46	0.47	0.47	0.45
	10	0.46	0.45	0.44	0.42	0.45	0.45	0.44	0.41

Content	Grade	Low <i>P</i> -value							
		2014	2013	2012	2011	2010	2009	2008	2007
MA	3	0.37	0.35	0.35	0.34	0.34	0.37	0.34	0.39
	4	0.12	0.10	0.10	0.13	0.12	0.16	0.14	0.16
	5	0.29	0.28	0.30	0.32	0.29	0.33	0.33	0.31
	6	0.27	0.30	0.32	0.30	0.27	0.27	0.30	0.26
	7	0.13	0.14	0.14	0.15	0.15	0.16	0.19	0.21
	8	0.23	0.21	0.25	0.25	0.22	0.23	0.23	0.23
	9	0.18	0.20	0.21	0.21	0.16	0.19	0.19	0.17
	10	0.09	0.09	0.07	0.06	0.08	0.09	0.07	0.08

Table 75
Mathematics Longitudinal Summary of *P*-values (continued)

		High <i>P</i> -value						
		Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008	Difference 2008-2007
MA	3	0.03	-0.01	-0.03	0.01	0.00	-0.01	-0.01
	4	0.01	0.00	-0.02	-0.02	0.01	-0.02	0.00
	5	-0.01	0.01	-0.02	0.01	-0.02	0.00	-0.01
	6	-0.03	-0.01	0.02	0.01	0.02	0.01	0.01
	7	-0.02	0.02	0.00	0.01	-0.01	0.03	-0.04
	8	-0.03	0.02	0.02	-0.01	0.00	-0.01	0.00
	9	0.00	0.00	-0.02	0.02	0.00	0.00	0.04
	10	-0.01	0.03	0.00	-0.04	0.01	-0.01	0.02

		Mean <i>P</i> -value						
		Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008	Difference 2008-2007
MA	3	0.00	0.02	-0.02	-0.02	0.00	-0.01	-0.02
	4	0.02	-0.01	0.00	-0.03	0.00	-0.02	0.02
	5	-0.04	0.04	-0.03	0.01	-0.02	0.02	-0.01
	6	0.00	-0.02	0.02	-0.01	0.02	0.00	0.01
	7	-0.03	0.01	-0.02	0.03	0.00	0.00	-0.02
	8	-0.02	-0.01	0.02	0.00	0.01	-0.03	0.03
	9	0.00	0.01	0.01	0.00	-0.01	0.00	0.02
	10	0.01	0.01	0.02	-0.02	-0.01	0.02	0.02

		Low <i>P</i> -value						
		Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008	Difference 2008-2007
MA	3	0.02	0.00	0.01	0.00	-0.03	0.02	-0.05
	4	0.02	0.00	-0.03	0.01	-0.05	0.02	-0.02
	5	0.00	-0.01	-0.02	0.03	-0.03	0.00	0.02
	6	-0.02	-0.02	0.02	0.03	0.00	-0.03	0.04
	7	-0.01	0.00	-0.01	0.00	-0.01	-0.03	-0.02
	8	0.02	-0.04	0.01	0.03	-0.01	-0.01	0.00
	9	-0.02	0.00	0.00	0.04	-0.02	0.00	0.02
	10	0.00	0.02	0.00	-0.02	0.00	0.01	-0.01

Table 76
Reading Longitudinal Summary of Point-Biserials

Content	Grade	High Point Biserial						
		2014	2013	2012	2011	2010	2009	2008
RD	3	0.67	0.72	0.74	0.73	0.73	0.73	0.72
	4	0.69	0.71	0.70	0.72	0.71	0.72	0.68
	5	0.73	0.74	0.73	0.73	0.75	0.75	0.74
	6	0.71	0.69	0.69	0.73	0.71	0.74	0.72
	7	0.70	0.68	0.71	0.68	0.72	0.71	0.71
	8	0.69	0.67	0.69	0.72	0.72	0.69	0.70
	9	0.73	0.74	0.71	0.72	0.72	0.71	0.74
	10	0.69	0.70	0.68	0.70	0.69	0.68	0.68

Content	Grade	Mean Point Biserial						
		2014	2013	2012	2011	2010	2009	2008
RD	3	0.51	0.53	0.56	0.55	0.55	0.57	0.55
	4	0.54	0.55	0.55	0.56	0.55	0.57	0.55
	5	0.56	0.56	0.58	0.57	0.59	0.58	0.58
	6	0.57	0.57	0.56	0.59	0.57	0.59	0.60
	7	0.52	0.51	0.52	0.49	0.52	0.53	0.53
	8	0.53	0.51	0.53	0.53	0.55	0.54	0.54
	9	0.56	0.56	0.56	0.56	0.57	0.57	0.57
	10	0.50	0.51	0.50	0.50	0.51	0.52	0.52

Content	Grade	Low Point Biserial						
		2014	2013	2012	2011	2010	2009	2008
RD	3	0.24	0.24	0.31	0.28	0.26	0.29	0.31
	4	0.34	0.30	0.31	0.29	0.28	0.35	0.36
	5	0.21	0.19	0.19	0.21	0.16	0.24	0.28
	6	0.17	0.22	0.16	0.24	0.28	0.31	0.35
	7	0.23	0.19	0.22	0.14	0.16	0.20	0.24
	8	0.33	0.27	0.32	0.28	0.35	0.32	0.31
	9	0.27	0.33	0.37	0.35	0.40	0.37	0.37
	10	0.30	0.33	0.28	0.27	0.33	0.33	0.36

Table 76
Reading Longitudinal Summary of Point-Biserials (continued)

Content	Grade	High Point Biserial					
		Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
RD	3	-0.04	-0.02	0.01	0.00	0.00	0.00
	4	-0.02	0.01	-0.02	0.01	-0.01	0.04
	5	0.00	0.01	0.00	-0.02	0.00	0.01
	6	0.02	0.01	-0.04	0.02	-0.03	0.01
	7	0.01	-0.02	0.02	-0.03	0.01	0.00
	8	0.01	-0.02	-0.02	-0.01	0.03	-0.01
	9	-0.01	0.03	-0.02	0.00	0.01	-0.03
	10	0.00	0.02	-0.02	0.01	0.01	-0.01

Content	Grade	Mean Point Biserial					
		Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
RD	3	-0.02	-0.02	0.01	-0.01	-0.01	0.02
	4	-0.01	0.00	0.00	0.01	-0.02	0.02
	5	0.00	-0.02	0.00	-0.01	0.00	0.01
	6	0.00	0.00	-0.03	0.02	-0.01	-0.02
	7	0.01	-0.01	0.03	-0.03	-0.01	0.00
	8	0.01	-0.02	0.00	-0.02	0.01	0.00
	9	0.00	0.00	0.00	-0.02	0.00	0.00
	10	-0.01	0.01	-0.01	-0.01	-0.01	0.00

Content	Grade	Low Point Biserial					
		Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
RD	3	0.00	-0.08	0.03	0.02	-0.03	-0.02
	4	0.05	-0.01	0.01	0.01	-0.07	-0.01
	5	0.02	0.00	-0.02	0.04	-0.08	-0.04
	6	-0.05	0.06	-0.08	-0.04	-0.04	-0.03
	7	0.04	-0.03	0.08	-0.02	-0.04	-0.04
	8	0.05	-0.05	0.03	-0.06	0.03	0.01
	9	-0.06	-0.04	0.02	-0.05	0.03	0.00
	10	-0.03	0.05	0.01	-0.06	0.00	-0.03

Table 77
Writing Longitudinal Summary of Point-Biserials

Content	Grade	High Point Biserial						
		2014	2013	2012	2011	2010	2009	2008
WR	3	0.81	0.82	0.82	0.83	0.82	0.83	0.82
	4	0.83	0.84	0.84	0.84	0.82	0.84	0.82
	5	0.86	0.84	0.86	0.84	0.85	0.85	0.84
	6	0.84	0.85	0.85	0.87	0.85	0.83	0.85
	7	0.88	0.85	0.88	0.85	0.84	0.84	0.86
	8	0.88	0.87	0.87	0.87	0.87	0.88	0.85
	9	0.87	0.86	0.86	0.85	0.87	0.84	0.85
	10	0.86	0.85	0.83	0.85	0.86	0.85	0.84

Content	Grade	Mean Point Biserial						
		2014	2013	2012	2011	2010	2009	2008
WR	3	0.54	0.56	0.57	0.58	0.58	0.58	0.58
	4	0.55	0.55	0.56	0.57	0.56	0.57	0.56
	5	0.58	0.57	0.58	0.57	0.60	0.58	0.58
	6	0.58	0.59	0.59	0.60	0.58	0.59	0.61
	7	0.59	0.58	0.60	0.56	0.60	0.59	0.61
	8	0.57	0.56	0.57	0.58	0.58	0.58	0.56
	9	0.58	0.58	0.58	0.57	0.59	0.57	0.58
	10	0.55	0.54	0.53	0.54	0.54	0.55	0.54

Content	Grade	Low Point Biserial						
		2014	2013	2012	2011	2010	2009	2008
WR	3	0.25	0.24	0.25	0.21	0.23	0.25	0.24
	4	0.17	0.15	0.21	0.16	0.12	0.21	0.21
	5	0.28	0.21	0.17	0.20	0.21	0.18	0.21
	6	0.20	0.20	0.20	0.27	0.20	0.23	0.29
	7	0.21	0.17	0.15	0.12	0.21	0.20	0.13
	8	0.18	0.18	0.14	0.18	0.17	0.20	0.20
	9	0.18	0.22	0.19	0.20	0.22	0.17	0.19
	10	0.14	0.17	0.14	0.12	0.12	0.21	0.20

Table 77
Writing Longitudinal Summary of Point-Biserials (continued)

Content	Grade	High Point Biserial					
		Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
WR	3	-0.01	0.00	-0.01	0.01	-0.01	0.01
	4	-0.02	0.01	-0.01	0.02	-0.02	0.01
	5	0.02	-0.01	0.02	-0.01	0.00	0.01
	6	-0.01	0.00	-0.02	0.02	0.02	-0.02
	7	0.03	-0.03	0.02	0.01	0.00	-0.02
	8	0.01	0.00	0.00	-0.01	0.00	0.02
	9	0.01	-0.01	0.02	-0.02	0.03	-0.02
	10	0.01	0.02	-0.02	-0.01	0.01	0.01

Content	Grade	Mean Point Biserial					
		Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
WR	3	-0.02	-0.01	-0.01	0.00	0.00	0.00
	4	0.00	-0.01	0.00	0.01	-0.01	0.01
	5	0.00	0.00	0.01	-0.03	0.02	0.01
	6	-0.01	0.00	-0.01	0.02	-0.01	-0.02
	7	0.01	-0.02	0.04	-0.03	0.00	-0.01
	8	0.01	-0.01	-0.02	0.00	0.00	0.01
	9	0.00	0.00	0.01	-0.02	0.02	-0.01
	10	0.00	0.01	-0.02	0.00	-0.01	0.01

Content	Grade	Low Point Biserial					
		Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008
WR	3	0.01	-0.01	0.04	-0.02	-0.02	0.01
	4	0.01	-0.06	0.05	0.03	-0.08	0.00
	5	0.07	0.05	-0.04	-0.01	0.03	-0.02
	6	0.00	0.00	-0.07	0.07	-0.03	-0.06
	7	0.04	0.02	0.03	-0.09	0.00	0.08
	8	0.00	0.04	-0.04	0.01	-0.03	-0.01
	9	-0.04	0.03	-0.01	-0.02	0.05	-0.02
	10	-0.03	0.03	0.02	0.00	-0.09	0.01

Table 78
Mathematics Longitudinal Summary of Point-Biserials

Content	Grade	High Point Biserial							
		2014	2013	2012	2011	2010	2009	2008	2007
MA	3	0.80	0.82	0.82	0.82	0.82	0.83	0.81	0.80
	4	0.80	0.79	0.83	0.79	0.78	0.80	0.78	0.77
	5	0.77	0.80	0.79	0.80	0.79	0.81	0.78	0.77
	6	0.79	0.77	0.78	0.76	0.77	0.79	0.82	0.79
	7	0.76	0.75	0.77	0.73	0.76	0.77	0.78	0.74
	8	0.80	0.81	0.81	0.81	0.79	0.80	0.79	0.79
	9	0.80	0.80	0.77	0.77	0.79	0.76	0.80	0.81
	10	0.73	0.75	0.75	0.76	0.75	0.73	0.73	0.74

Content	Grade	Mean Point Biserial							
		2014	2013	2012	2011	2010	2009	2008	2007
MA	3	0.61	0.64	0.65	0.65	0.64	0.65	0.63	0.62
	4	0.64	0.64	0.65	0.65	0.63	0.65	0.64	0.63
	5	0.62	0.63	0.62	0.62	0.63	0.63	0.61	0.59
	6	0.60	0.59	0.62	0.61	0.60	0.60	0.64	0.61
	7	0.57	0.57	0.59	0.56	0.57	0.59	0.61	0.58
	8	0.56	0.56	0.58	0.59	0.58	0.58	0.58	0.56
	9	0.52	0.52	0.53	0.53	0.54	0.52	0.53	0.53
	10	0.51	0.51	0.49	0.48	0.50	0.52	0.49	0.52

Content	Grade	Low Point Biserial							
		2014	2013	2012	2011	2010	2009	2008	2007
MA	3	0.39	0.35	0.40	0.38	0.36	0.35	0.28	0.36
	4	0.25	0.26	0.17	0.26	0.20	0.29	0.25	0.25
	5	0.35	0.36	0.36	0.39	0.34	0.38	0.36	0.35
	6	0.15	0.18	0.19	0.18	0.15	0.18	0.27	0.25
	7	0.33	0.27	0.27	0.27	0.32	0.34	0.33	0.27
	8	0.08	0.03	0.18	0.13	0.21	0.14	0.10	0.16
	9	0.09	0.18	0.25	0.21	0.20	0.19	0.17	0.21
	10	0.10	0.10	0.07	0.03	0.09	0.14	0.09	0.12

Table 78 Mathematics Longitudinal Summary of Point-Biserials (continued)

		High Point Biserial						
Content	Grade	Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008	Difference 2008-2007
MA	3	-0.02	0.00	0.00	0.00	-0.01	0.02	0.01
	4	0.01	-0.04	0.04	0.01	-0.01	0.01	0.01
	5	-0.03	0.01	-0.01	0.00	-0.02	0.03	0.01
	6	0.02	-0.01	0.02	-0.01	-0.02	-0.03	0.03
	7	0.01	-0.02	0.03	-0.02	-0.01	-0.01	0.04
	8	-0.01	0.00	0.00	0.02	-0.01	0.01	-0.01
	9	0.00	0.04	-0.01	-0.02	0.03	-0.04	-0.01
	10	-0.03	0.01	-0.01	0.02	0.02	-0.01	-0.01

		Median Point Biserial						
Content	Grade	Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008	Difference 2008-2007
MA	3	-0.03	0.00	0.00	0.00	-0.01	0.02	0.02
	4	0.00	-0.01	0.00	0.01	-0.02	0.01	0.01
	5	-0.01	0.00	0.01	-0.02	0.01	0.02	0.02
	6	0.01	-0.02	0.01	0.01	0.00	-0.04	0.03
	7	0.00	-0.01	0.02	-0.01	-0.02	-0.01	0.03
	8	0.00	-0.02	-0.01	0.01	0.00	0.01	0.01
	9	0.00	-0.01	0.01	-0.01	0.01	0.00	0.00
	10	0.00	0.02	0.00	-0.02	-0.02	0.03	-0.03

		Low Point Biserial						
Content	Grade	Difference 2014-2013	Difference 2013-2012	Difference 2012-2011	Difference 2011-2010	Difference 2010-2009	Difference 2009-2008	Difference 2008-2007
MA	3	0.05	-0.05	0.02	0.02	0.01	0.07	-0.08
	4	-0.01	0.09	-0.08	0.05	-0.08	0.03	0.00
	5	-0.01	0.00	-0.03	0.05	-0.04	0.02	0.01
	6	-0.03	-0.01	0.01	0.03	-0.03	-0.09	0.02
	7	0.06	0.00	0.01	-0.05	-0.02	0.00	0.06
	8	0.05	-0.15	0.05	-0.08	0.08	0.04	-0.06
	9	-0.09	-0.07	0.04	0.01	0.01	0.02	-0.05
	10	0.00	0.03	0.04	-0.07	-0.04	0.05	-0.03

Table 79
Reading Longitudinal Summary of Impact Data

		2014					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
RD	3	15.45%	29.20%	37.01%	14.60%	3.74%	18.34%
	4	16.55%	26.12%	31.06%	18.58%	7.69%	26.27%
	5	12.55%	27.30%	19.56%	31.09%	9.49%	40.58%
	6	10.08%	21.53%	29.47%	33.74%	5.19%	38.93%
	7	13.49%	23.17%	24.13%	32.38%	6.83%	39.21%
	8	16.44%	27.63%	22.37%	26.61%	6.95%	33.56%
	9	12.36%	23.94%	27.22%	24.90%	11.58%	36.49%
	10	11.11%	29.33%	26.05%	20.77%	12.75%	33.52%
		2013					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
RD	3	17.86%	26.04%	34.97%	17.71%	3.42%	21.13%
	4	20.80%	21.98%	31.42%	17.99%	7.82%	25.81%
	5	11.21%	23.32%	19.43%	33.33%	12.71%	46.04%
	6	8.66%	20.87%	28.90%	34.62%	6.96%	41.58%
	7	9.27%	26.18%	23.58%	34.47%	6.50%	40.98%
	8	14.62%	26.28%	25.69%	27.87%	5.53%	33.40%
	9	12.77%	24.82%	29.20%	23.18%	10.04%	33.21%
	10	13.09%	24.89%	29.18%	18.24%	14.59%	32.83%
		2012					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
RD	3	19.79%	25.27%	31.05%	19.79%	4.11%	23.90%
	4	18.23%	21.39%	30.74%	21.71%	7.92%	29.64%
	5	13.09%	27.14%	19.06%	30.21%	10.50%	40.71%
	6	8.21%	22.71%	28.66%	33.49%	6.92%	40.42%
	7	11.49%	24.11%	22.22%	34.27%	7.91%	42.18%
	8	15.94%	27.17%	22.83%	25.72%	8.33%	34.06%
	9	14.14%	25.00%	28.28%	23.57%	9.02%	32.58%
	10	11.26%	31.07%	23.69%	19.42%	14.56%	33.98%

Table 79
Reading Longitudinal Summary of Impact Data (continued)

		2011					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
RD	3	15.29%	24.03%	35.88%	19.66%	5.15%	24.81%
	4	16.45%	21.29%	31.77%	20.97%	9.52%	30.48%
	5	10.98%	22.26%	20.60%	32.48%	13.68%	46.17%
	6	10.17%	22.03%	25.80%	35.59%	6.40%	42.00%
	7	8.85%	24.96%	25.31%	34.87%	6.02%	40.89%
	8	17.33%	28.49%	23.31%	25.50%	5.38%	30.88%
	9	13.26%	28.79%	26.14%	22.16%	9.66%	31.82%
	10	13.03%	30.55%	24.03%	18.74%	13.65%	32.38%
		2010					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
RD	3	15.53%	22.49%	36.98%	21.01%	3.99%	25.00%
	4	16.51%	19.27%	33.49%	21.71%	9.02%	30.73%
	5	13.09%	20.03%	21.97%	30.69%	14.22%	44.91%
	6	9.14%	20.86%	29.66%	33.97%	6.38%	40.34%
	7	12.78%	23.70%	24.07%	32.78%	6.67%	39.44%
	8	17.98%	28.66%	18.77%	26.09%	8.50%	34.59%
	9	14.50%	26.95%	25.09%	22.86%	10.59%	33.46%
	10	14.11%	25.89%	27.58%	20.00%	12.42%	32.42%
		2009					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
RD	3	16.19%	19.08%	36.85%	21.39%	6.50%	27.89%
	4	16.61%	17.86%	31.68%	23.29%	10.56%	33.85%
	5	9.48%	23.53%	19.44%	32.19%	15.36%	47.55%
	6	10.97%	17.00%	33.64%	32.36%	6.03%	38.39%
	7	12.59%	25.38%	23.12%	30.83%	8.08%	38.91%
	8	18.38%	29.60%	22.06%	21.51%	8.46%	29.96%
	9	13.88%	25.15%	28.57%	20.12%	12.27%	32.39%
	10	11.63%	24.95%	25.89%	21.01%	16.51%	37.52%

Table 79
Reading Longitudinal Summary of Impact Data (continued)

		2008					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
	3	13.24%	20.25%	37.85%	24.14%	4.52%	28.66%
	4	13.27%	19.43%	35.70%	21.64%	9.95%	31.60%
	5	12.46%	20.70%	23.33%	30.18%	13.33%	43.51%
RD	6	11.53%	20.90%	27.39%	32.79%	7.39%	40.18%
	7	13.69%	24.71%	25.86%	29.28%	6.46%	35.74%
	8	16.80%	26.09%	22.73%	25.89%	8.50%	34.39%
	9	13.96%	22.79%	28.27%	25.44%	9.54%	34.98%
	10	15.18%	28.42%	24.51%	18.22%	13.67%	31.89%

Table 79
Reading Longitudinal Summary of Impact Data (continued)

		Difference between 2014 and 2013					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
RD	3	-2.41%	3.16%	2.04%	-3.11%	0.31%	-2.79%
	4	-4.25%	4.15%	-0.36%	0.58%	-0.12%	0.46%
	5	1.34%	3.98%	0.13%	-2.24%	-3.22%	-5.45%
	6	1.42%	0.66%	0.56%	-0.88%	-1.76%	-2.65%
	7	4.22%	-3.00%	0.55%	-2.09%	0.32%	-1.77%
	8	1.82%	1.34%	-3.32%	-1.26%	1.42%	0.16%
	9	-0.42%	-0.88%	-1.98%	1.73%	1.55%	3.27%
	10	-1.98%	4.43%	-3.14%	2.52%	-1.84%	0.68%

		Difference between 2013 and 2012					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
RD	3	-1.93%	0.78%	3.92%	-2.08%	-0.69%	-2.77%
	4	2.57%	0.58%	0.67%	-3.72%	-0.11%	-3.82%
	5	-1.87%	-3.82%	0.37%	3.12%	2.20%	5.33%
	6	0.44%	-1.84%	0.24%	1.13%	0.03%	1.16%
	7	-2.22%	2.07%	1.36%	0.20%	-1.41%	-1.21%
	8	-1.32%	-0.89%	2.87%	2.14%	-2.80%	-0.66%
	9	-1.37%	-0.18%	0.92%	-0.39%	1.02%	0.63%
	10	1.83%	-6.18%	5.50%	-1.18%	0.03%	-1.15%

		Difference between 2012 and 2011					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
RD	3	4.50%	1.24%	-4.83%	0.13%	-1.04%	-0.91%
	4	1.77%	0.10%	-1.03%	0.74%	-1.59%	-0.85%
	5	2.11%	4.88%	-1.54%	-2.27%	-3.18%	-5.45%
	6	-1.96%	0.67%	2.86%	-2.10%	0.52%	-1.58%
	7	2.64%	-0.85%	-3.09%	-0.59%	1.89%	1.30%
	8	-1.39%	-1.31%	-0.48%	0.23%	2.95%	3.18%
	9	0.88%	-3.79%	2.14%	1.41%	-0.64%	0.76%
	10	-1.77%	0.52%	-0.34%	0.68%	0.92%	1.60%

Table 79
Reading Longitudinal Summary of Impact Data (continued)

		Difference between 2011 and 2010					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
RD	3	-0.24%	1.54%	-1.10%	-1.35%	1.15%	-0.20%
	4	-0.06%	2.02%	-1.71%	-0.74%	0.49%	-0.25%
	5	-2.11%	2.22%	-1.37%	1.79%	-0.53%	1.25%
	6	1.03%	1.17%	-3.85%	1.63%	0.02%	1.65%
	7	-3.93%	1.25%	1.24%	2.09%	-0.65%	1.44%
	8	-0.65%	-0.17%	4.53%	-0.59%	-3.12%	-3.71%
	9	-1.24%	1.84%	1.04%	-0.70%	-0.94%	-1.64%
	10	-1.07%	4.66%	-3.55%	-1.26%	1.22%	-0.04%

		Difference between 2010 and 2009					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
RD	3	-0.65%	3.41%	0.13%	-0.38%	-2.51%	-2.89%
	4	-0.10%	1.41%	1.81%	-1.58%	-1.54%	-3.12%
	5	3.61%	-3.50%	2.53%	-1.49%	-1.14%	-2.64%
	6	-1.83%	3.86%	-3.98%	1.61%	0.35%	1.95%
	7	0.18%	-1.67%	0.95%	1.95%	-1.42%	0.53%
	8	-0.40%	-0.94%	-3.28%	4.58%	0.04%	4.62%
	9	0.61%	1.80%	-3.48%	2.74%	-1.68%	1.06%
	10	2.47%	0.94%	1.69%	-1.01%	-4.09%	-5.10%

		Difference between 2009 and 2008					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
RD	3	2.95%	-1.17%	-1.00%	-2.76%	1.99%	-0.77%
	4	3.34%	-1.57%	-4.03%	1.65%	0.61%	2.26%
	5	-2.98%	2.83%	-3.89%	2.01%	2.03%	4.04%
	6	-0.56%	-3.90%	6.25%	-0.43%	-1.35%	-1.79%
	7	-1.09%	0.66%	-2.74%	1.55%	1.62%	3.17%
	8	1.58%	3.51%	-0.67%	-4.38%	-0.04%	-4.42%
	9	-0.07%	2.36%	0.30%	-5.32%	2.73%	-2.59%
	10	-3.55%	-3.46%	1.38%	2.79%	2.84%	5.64%

Table 80
Writing Longitudinal Summary of Impact Data

		2014					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
WR	3	12.88%	27.29%	35.59%	21.53%	2.71%	24.24%
	4	13.16%	21.20%	36.99%	21.64%	7.02%	28.65%
	5	13.33%	21.01%	31.74%	24.64%	9.28%	33.91%
	6	10.46%	18.31%	27.23%	32.00%	12.00%	44.00%
	7	14.22%	23.80%	22.52%	25.24%	14.22%	39.46%
	8	16.13%	24.11%	22.58%	22.07%	15.11%	37.18%
	9	13.13%	25.10%	24.13%	25.48%	12.16%	37.64%
	10	10.99%	23.63%	33.70%	21.06%	10.62%	31.68%
		2013					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
WR	3	13.94%	25.49%	35.53%	22.34%	2.70%	25.04%
	4	12.87%	25.44%	32.75%	21.05%	7.89%	28.95%
	5	10.26%	19.61%	27.60%	31.52%	11.01%	42.53%
	6	9.44%	22.14%	24.46%	29.10%	14.86%	43.96%
	7	11.44%	22.06%	23.20%	29.41%	13.89%	43.30%
	8	14.68%	22.82%	23.61%	23.41%	15.48%	38.89%
	9	13.56%	26.94%	24.95%	21.52%	13.02%	34.54%
	10	12.85%	22.48%	34.90%	20.56%	9.21%	29.76%
		2012					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
WR	3	16.24%	25.19%	32.47%	23.52%	2.58%	26.10%
	4	13.69%	20.86%	32.48%	26.11%	6.85%	32.96%
	5	12.50%	22.08%	28.73%	28.57%	8.12%	36.69%
	6	9.82%	17.87%	27.21%	31.08%	14.01%	45.09%
	7	14.34%	21.61%	21.03%	28.49%	14.53%	43.02%
	8	14.03%	25.68%	22.40%	21.86%	16.03%	37.89%
	9	15.21%	27.50%	24.17%	22.29%	10.83%	33.13%
	10	11.48%	26.26%	33.66%	20.82%	7.78%	28.60%

Table 80
Writing Longitudinal Summary of Impact Data (continued)

		2011					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
WR	3	13.58%	23.77%	33.80%	25.46%	3.40%	28.86%
	4	13.52%	21.66%	34.04%	23.45%	7.33%	30.78%
	5	10.45%	17.27%	30.91%	32.12%	9.24%	41.36%
	6	10.51%	20.45%	25.70%	29.83%	13.51%	43.34%
	7	10.32%	22.42%	26.51%	26.87%	13.88%	40.75%
	8	18.64%	22.24%	23.45%	21.84%	13.83%	35.67%
	9	14.42%	29.41%	24.86%	22.58%	8.73%	31.31%
	10	13.27%	29.18%	29.59%	17.76%	10.20%	27.96%
		2010					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
WR	3	12.97%	21.57%	35.44%	26.09%	3.92%	30.02%
	4	10.62%	18.51%	33.99%	29.29%	7.59%	36.87%
	5	11.13%	17.84%	27.99%	30.44%	12.60%	43.04%
	6	8.52%	20.52%	23.65%	32.52%	14.78%	47.30%
	7	12.69%	22.39%	25.19%	25.19%	14.55%	39.74%
	8	16.04%	27.33%	22.38%	18.61%	15.64%	34.26%
	9	15.80%	26.95%	26.39%	19.15%	11.71%	30.86%
	10	11.63%	25.37%	35.94%	20.30%	6.77%	27.06%
		2009					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
WR	3	12.10%	19.39%	37.32%	27.70%	3.50%	31.20%
	4	12.38%	15.67%	35.74%	26.80%	9.40%	36.21%
	5	10.41%	16.36%	30.41%	32.23%	10.58%	42.81%
	6	10.75%	14.75%	29.14%	34.79%	10.56%	45.36%
	7	10.88%	23.83%	23.08%	28.33%	13.88%	42.21%
	8	18.45%	22.88%	24.91%	19.93%	13.84%	33.76%
	9	11.65%	26.31%	31.93%	19.08%	11.04%	30.12%
	10	12.38%	20.26%	37.52%	18.39%	11.44%	29.83%

Table 80
Writing Longitudinal Summary of Impact Data (continued)

		2008					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
WR	3	10.92%	17.09%	37.03%	31.80%	3.16%	34.97%
	4	10.70%	15.81%	36.10%	29.23%	8.15%	37.38%
	5	11.62%	14.96%	33.27%	29.75%	10.39%	40.14%
	6	12.18%	19.09%	26.73%	28.55%	13.45%	42.00%
	7	15.21%	22.81%	21.67%	26.62%	13.69%	40.30%
	8	15.83%	23.05%	25.65%	21.84%	13.63%	35.47%
	9	13.01%	25.13%	29.53%	23.37%	8.96%	32.34%
	10	12.42%	27.02%	35.73%	18.08%	6.75%	24.84%

Table 80
Writing Longitudinal Summary of Impact Data (continued)

		Difference between 2014 and 2013					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
WR	3	-1.06%	1.80%	0.06%	-0.81%	0.01%	-0.80%
	4	0.29%	-4.24%	4.24%	0.58%	-0.88%	-0.29%
	5	3.08%	1.41%	4.14%	-6.89%	-1.74%	-8.62%
	6	1.02%	-3.83%	2.77%	2.90%	-2.86%	0.04%
	7	2.78%	1.74%	-0.68%	-4.17%	0.33%	-3.84%
	8	1.45%	1.29%	-1.03%	-1.34%	-0.37%	-1.71%
	9	-0.43%	-1.85%	-0.82%	3.96%	-0.86%	3.11%
	10	-1.86%	1.14%	-1.20%	0.51%	1.42%	1.92%

		Difference between 2013 and 2012					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
WR	3	-2.29%	0.30%	3.06%	-1.18%	0.12%	-1.06%
	4	-0.83%	4.58%	0.26%	-5.06%	1.05%	-4.01%
	5	-2.24%	-2.47%	-1.13%	2.95%	2.89%	5.85%
	6	-0.38%	4.26%	-2.76%	-1.98%	0.85%	-1.13%
	7	-2.90%	0.45%	2.17%	0.92%	-0.64%	0.28%
	8	0.66%	-2.87%	1.21%	1.55%	-0.55%	1.00%
	9	-1.65%	-0.56%	0.79%	-0.77%	2.19%	1.41%
	10	1.37%	-3.78%	1.25%	-0.26%	1.43%	1.17%

		Difference between 2012 and 2011					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
WR	3	2.66%	1.42%	-1.32%	-1.94%	-0.82%	-2.76%
	4	0.18%	-0.80%	-1.56%	2.66%	-0.48%	2.18%
	5	2.05%	4.81%	-2.18%	-3.55%	-1.13%	-4.68%
	6	-0.68%	-2.58%	1.51%	1.25%	0.50%	1.75%
	7	4.02%	-0.81%	-5.48%	1.62%	0.65%	2.27%
	8	-4.61%	3.44%	-1.04%	0.01%	2.20%	2.22%
	9	0.79%	-1.91%	-0.69%	-0.29%	2.10%	1.82%
	10	-1.79%	-2.92%	4.07%	3.06%	-2.42%	0.64%

Table 80
Writing Longitudinal Summary of Impact Data (continued)

		Difference between 2011 and 2010					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
WR	3	0.61%	2.20%	-1.65%	-0.63%	-0.53%	-1.16%
	4	2.90%	3.15%	0.05%	-5.83%	-0.26%	-6.09%
	5	-0.67%	-0.57%	2.92%	1.68%	-3.36%	-1.68%
	6	1.98%	-0.07%	2.05%	-2.69%	-1.27%	-3.96%
	7	-2.37%	0.03%	1.33%	1.68%	-0.67%	1.01%
	8	2.60%	-5.08%	1.07%	3.23%	-1.82%	1.41%
	9	-1.38%	2.46%	-1.54%	3.44%	-2.98%	0.45%
	10	1.64%	3.81%	-6.35%	-2.54%	3.44%	0.90%

		Difference between 2010 and 2009					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
WR	3	0.87%	2.18%	-1.87%	-1.60%	0.42%	-1.18%
	4	-1.76%	2.84%	-1.75%	2.48%	-1.82%	0.67%
	5	0.72%	1.48%	-2.43%	-1.79%	2.02%	0.23%
	6	-2.23%	5.77%	-5.49%	-2.27%	4.22%	1.95%
	7	1.80%	-1.44%	2.11%	-3.14%	0.67%	-2.48%
	8	-2.41%	4.45%	-2.53%	-1.31%	1.81%	0.49%
	9	4.15%	0.65%	-5.53%	0.07%	0.67%	0.73%
	10	-0.75%	5.11%	-1.58%	1.91%	-4.68%	-2.77%

		Difference between 2009 and 2008					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
WR	3	1.18%	2.30%	0.29%	-4.11%	0.33%	-3.77%
	4	1.68%	-0.14%	-0.37%	-2.43%	1.26%	-1.17%
	5	-1.21%	1.40%	-2.86%	2.48%	0.19%	2.67%
	6	-1.44%	-4.34%	2.42%	6.25%	-2.89%	3.36%
	7	-4.33%	1.01%	1.40%	1.71%	0.20%	1.91%
	8	2.62%	-0.17%	-0.74%	-1.92%	0.21%	-1.71%
	9	-1.36%	1.17%	2.40%	-4.30%	2.08%	-2.22%
	10	-0.04%	-6.75%	1.79%	0.30%	4.69%	4.99%

Table 81
Mathematics Longitudinal Summary of Impact Data

		2014					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
MA	3	6.69%	23.16%	26.07%	20.93%	23.16%	44.08%
	4	6.33%	27.98%	23.71%	30.63%	11.34%	41.97%
	5	16.89%	17.03%	23.29%	33.48%	9.32%	42.79%
	6	11.93%	15.90%	22.94%	23.39%	25.84%	49.24%
	7	13.92%	22.40%	25.92%	23.20%	14.56%	37.76%
	8	13.07%	26.49%	29.88%	22.07%	8.49%	30.56%
	9	15.55%	21.69%	33.97%	19.58%	9.21%	28.79%
	10	12.70%	23.96%	34.48%	20.69%	8.17%	28.86%
		2013					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
MA	3	8.35%	22.61%	20.03%	24.28%	24.73%	49.01%
	4	7.09%	29.39%	24.96%	28.06%	10.49%	38.55%
	5	14.89%	14.44%	19.40%	38.05%	13.23%	51.28%
	6	11.51%	15.24%	23.17%	25.97%	24.11%	50.08%
	7	11.88%	18.98%	24.75%	26.57%	17.82%	44.39%
	8	11.35%	25.10%	27.69%	27.29%	8.57%	35.86%
	9	13.52%	25.80%	32.21%	18.33%	10.14%	28.47%
	10	14.47%	22.55%	37.45%	17.66%	7.87%	25.53%
		2012					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
MA	3	9.41%	22.69%	26.54%	17.13%	24.23%	41.36%
	4	7.68%	25.92%	26.88%	29.60%	9.92%	39.52%
	5	16.56%	17.70%	20.33%	34.92%	10.49%	45.41%
	6	11.73%	16.01%	19.65%	22.50%	30.11%	52.61%
	7	14.26%	20.23%	23.51%	22.74%	19.27%	42.00%
	8	12.27%	25.46%	22.89%	27.84%	11.54%	39.38%
	9	15.27%	25.87%	30.35%	18.74%	9.78%	28.51%
	10	12.96%	27.08%	38.10%	15.86%	6.00%	21.86%

Table 81
Mathematics Longitudinal Summary of Impact Data (continued)

		2011					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
MA	3	9.94%	18.61%	24.13%	23.50%	23.82%	47.32%
	4	6.91%	28.29%	24.67%	30.26%	9.87%	40.13%
	5	14.75%	14.13%	19.88%	40.99%	10.25%	51.24%
	6	11.49%	16.38%	23.35%	22.79%	25.99%	48.78%
	7	10.68%	20.28%	25.27%	25.80%	17.97%	43.77%
	8	14.62%	22.73%	28.46%	24.31%	9.88%	34.19%
	9	15.60%	25.75%	31.39%	18.61%	8.65%	27.26%
	10	14.75%	27.88%	38.79%	14.34%	4.24%	18.59%
		2010					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
MA	3	8.65%	17.92%	22.64%	26.26%	24.53%	50.79%
	4	5.52%	25.55%	23.19%	36.44%	9.31%	45.74%
	5	15.05%	15.38%	20.40%	38.80%	10.37%	49.16%
	6	10.71%	15.37%	20.73%	24.87%	28.32%	53.20%
	7	14.56%	18.71%	27.41%	23.82%	15.50%	39.32%
	8	12.79%	26.91%	28.24%	22.90%	9.16%	32.06%
	9	15.78%	26.06%	31.01%	15.78%	11.38%	27.16%
	10	13.18%	22.11%	38.95%	18.66%	7.10%	25.76%
		2009					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
MA	3	8.33%	17.73%	22.58%	24.39%	26.97%	51.36%
	4	7.48%	21.95%	25.69%	32.36%	12.52%	44.88%
	5	12.07%	15.65%	17.01%	42.86%	12.42%	55.27%
	6	11.41%	14.49%	22.46%	28.80%	22.83%	51.63%
	7	13.66%	21.06%	24.29%	24.86%	16.13%	40.99%
	8	15.87%	26.38%	27.86%	21.77%	8.12%	29.89%
	9	13.86%	24.75%	31.49%	20.00%	9.90%	29.90%
	10	12.94%	25.14%	35.86%	18.30%	7.76%	26.06%

Table 81
Mathematics Longitudinal Summary of Impact Data (continued)

		2008					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
MA	3	8.45%	15.17%	25.52%	24.66%	26.21%	50.86%
	4	6.30%	20.61%	25.89%	35.78%	11.41%	47.19%
	5	14.66%	12.22%	24.06%	37.97%	11.09%	49.06%
	6	15.88%	13.42%	20.79%	23.25%	26.65%	49.91%
	7	16.76%	18.88%	25.05%	20.23%	19.08%	39.31%
	8	12.13%	26.03%	24.66%	28.77%	8.41%	37.18%
	9	13.50%	26.82%	30.55%	17.76%	11.37%	29.13%
	10	14.47%	25.49%	38.44%	16.63%	4.97%	21.60%

		2007					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
MA	3	5.59%	16.76%	24.21%	27.56%	25.88%	53.45%
	4	5.91%	22.24%	24.80%	29.53%	17.52%	47.05%
	5	12.03%	14.98%	22.78%	41.77%	8.44%	50.21%
	6	13.13%	15.83%	23.17%	26.83%	21.04%	47.88%
	7	10.66%	19.40%	27.72%	25.80%	16.42%	42.22%
	8	12.04%	29.01%	29.38%	23.18%	6.39%	29.56%
	9	14.92%	27.52%	32.14%	17.44%	7.98%	25.42%
	10	18.12%	25.50%	36.02%	16.11%	4.25%	20.36%

Table 81
Mathematics Longitudinal Summary of Impact Data (continued)

		Difference between 2014 and 2013					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
MA	3	-1.66%	0.55%	6.04%	-3.35%	-1.58%	-4.93%
	4	-0.76%	-1.41%	-1.25%	2.57%	0.85%	3.42%
	5	2.00%	2.59%	3.89%	-4.57%	-3.92%	-8.48%
	6	0.42%	0.66%	-0.24%	-2.58%	1.74%	-0.84%
	7	2.04%	3.42%	1.17%	-3.37%	-3.26%	-6.63%
	8	1.72%	1.39%	2.19%	-5.22%	-0.08%	-5.30%
	9	2.02%	-4.11%	1.77%	1.25%	-0.93%	0.32%
	10	-1.76%	1.40%	-2.96%	3.03%	0.29%	3.32%
		Difference between 2013 and 2012					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
MA	3	-1.07%	-0.08%	-6.51%	7.15%	0.51%	7.66%
	4	-0.59%	3.47%	-1.92%	-1.54%	0.57%	-0.97%
	5	-1.67%	-3.27%	-0.93%	3.13%	2.74%	5.87%
	6	-0.22%	-0.77%	3.52%	3.47%	-6.01%	-2.54%
	7	-2.38%	-1.25%	1.25%	3.83%	-1.45%	2.39%
	8	-0.92%	-0.36%	4.80%	-0.55%	-2.97%	-3.52%
	9	-1.75%	-0.06%	1.86%	-0.41%	0.37%	-0.04%
	10	1.51%	-4.53%	-0.66%	1.80%	1.88%	3.68%
		Difference between 2012 and 2011					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing & Novice Combined
MA	3	-0.52%	4.07%	2.41%	-6.37%	0.41%	-5.96%
	4	0.77%	-2.37%	2.21%	-0.66%	0.05%	-0.61%
	5	1.81%	3.57%	0.45%	-6.08%	0.24%	-5.83%
	6	0.24%	-0.38%	-3.70%	-0.28%	4.12%	3.84%
	7	3.58%	-0.05%	-1.76%	-3.06%	1.30%	-1.77%
	8	-2.35%	2.73%	-5.56%	3.53%	1.66%	5.19%
	9	-0.33%	0.11%	-1.04%	0.13%	1.13%	1.26%
	10	-1.79%	-0.80%	-0.68%	1.52%	1.75%	3.27%

Table 81
Mathematics Longitudinal Summary of Impact Data (continued)

		Difference between 2011 and 2010					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing &
MA	3	1.29%	0.69%	1.49%	-2.76%	-0.71%	-3.47%
	4	1.39%	2.74%	1.49%	-6.17%	0.56%	-5.61%
	5	-0.30%	-1.25%	-0.53%	2.20%	-0.12%	2.08%
	6	0.78%	1.01%	2.63%	-2.08%	-2.34%	-4.42%
	7	-3.88%	1.57%	-2.14%	1.98%	2.47%	4.45%
	8	1.84%	-4.18%	0.21%	1.41%	0.72%	2.13%
	9	-0.18%	-0.30%	0.38%	2.83%	-2.73%	0.10%
	10	1.56%	5.77%	-0.16%	-4.32%	-2.86%	-7.17%

		Difference between 2010 and 2009					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing &
MA	3	0.31%	0.20%	0.07%	1.86%	-2.44%	-0.58%
	4	-1.96%	3.60%	-2.51%	4.08%	-3.21%	0.86%
	5	2.98%	-0.26%	3.39%	-4.06%	-2.05%	-6.11%
	6	-0.70%	0.88%	-1.74%	-3.93%	5.50%	1.56%
	7	0.89%	-2.35%	3.12%	-1.04%	-0.63%	-1.67%
	8	-3.08%	0.52%	0.38%	1.13%	1.04%	2.17%
	9	1.92%	1.30%	-0.48%	-4.22%	1.48%	-2.75%
	10	0.25%	-3.03%	3.09%	0.36%	-0.66%	-0.30%

		Difference between 2009 and 2008					
		Percent of Students in Each Proficiency Level					
Content	Grade	Inconclusive	Exploring	Emerging	Developing	Novice	Developing &
MA	3	-0.12%	2.55%	-2.94%	-0.26%	0.76%	0.50%
	4	1.18%	1.34%	-0.20%	-3.42%	1.11%	-2.31%
	5	-2.59%	3.43%	-7.05%	4.89%	1.32%	6.21%
	6	-4.47%	1.07%	1.67%	5.55%	-3.83%	1.72%
	7	-3.10%	2.18%	-0.76%	4.63%	-2.95%	1.68%
	8	3.73%	0.36%	3.20%	-7.00%	-0.30%	-7.29%
	9	0.36%	-2.07%	0.93%	2.24%	-1.47%	0.77%
	10	-1.53%	-0.35%	-2.59%	1.67%	2.80%	4.46%

Table 81
Mathematics Longitudinal Summary of Impact Data (continued)

Content	Grade	Difference between 2008 and 2007					
		Percent of Students in Each Proficiency Level					
		Inconclusive	Exploring	Emerging	Developing	Novice	Developing &
MA	3	2.86%	-1.59%	1.31%	-2.91%	0.32%	-2.58%
	4	0.40%	-1.63%	1.09%	6.25%	-6.11%	0.14%
	5	2.64%	-2.76%	1.28%	-3.80%	2.65%	-1.15%
	6	2.75%	-2.41%	-2.37%	-3.58%	5.61%	2.03%
	7	6.10%	-0.52%	-2.67%	-5.57%	2.66%	-2.91%
	8	0.09%	-2.99%	-4.72%	5.59%	2.03%	7.62%
	9	-1.42%	-0.70%	-1.59%	0.33%	3.38%	3.71%
	10	-3.65%	-0.02%	2.43%	0.52%	0.72%	1.24%

Figures 1–24

Figure 1
Total Number of Students Participating in CoAlt 2013-14 by Grade and Content

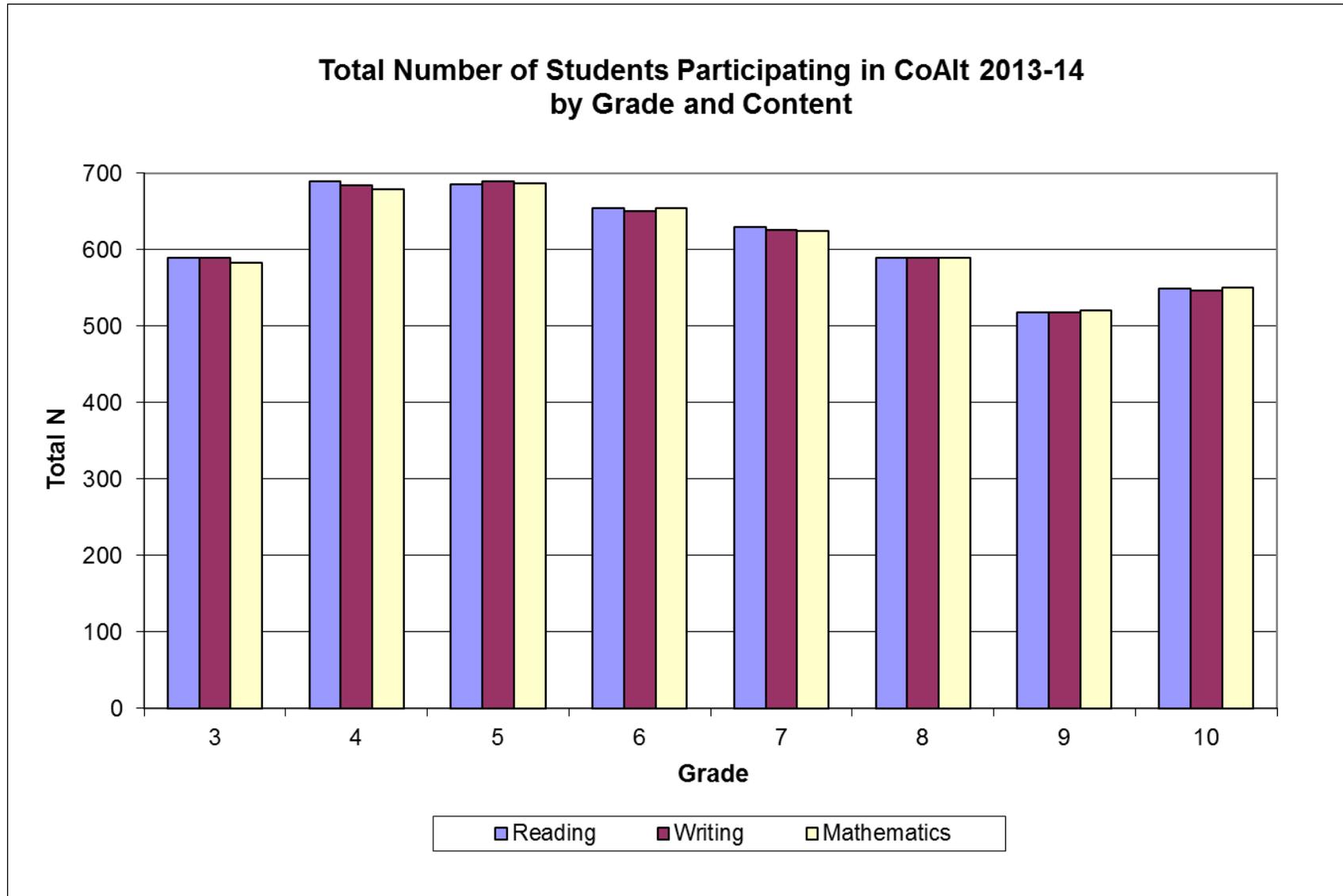


Figure 2
Percent of Participating Students by Coded Disability

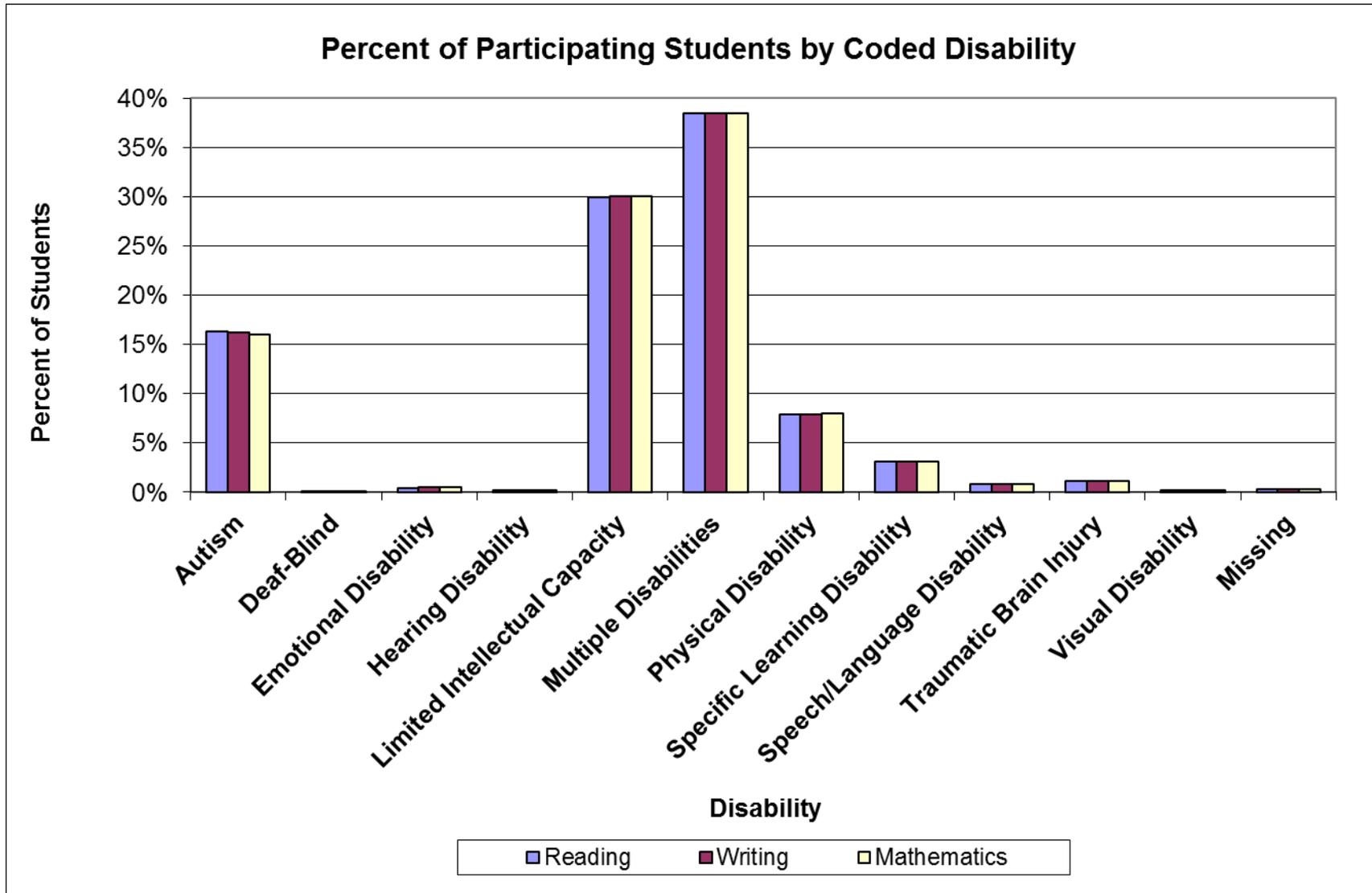


Figure 3
Reading Percent of Students Utilizing Expanded Accommodations

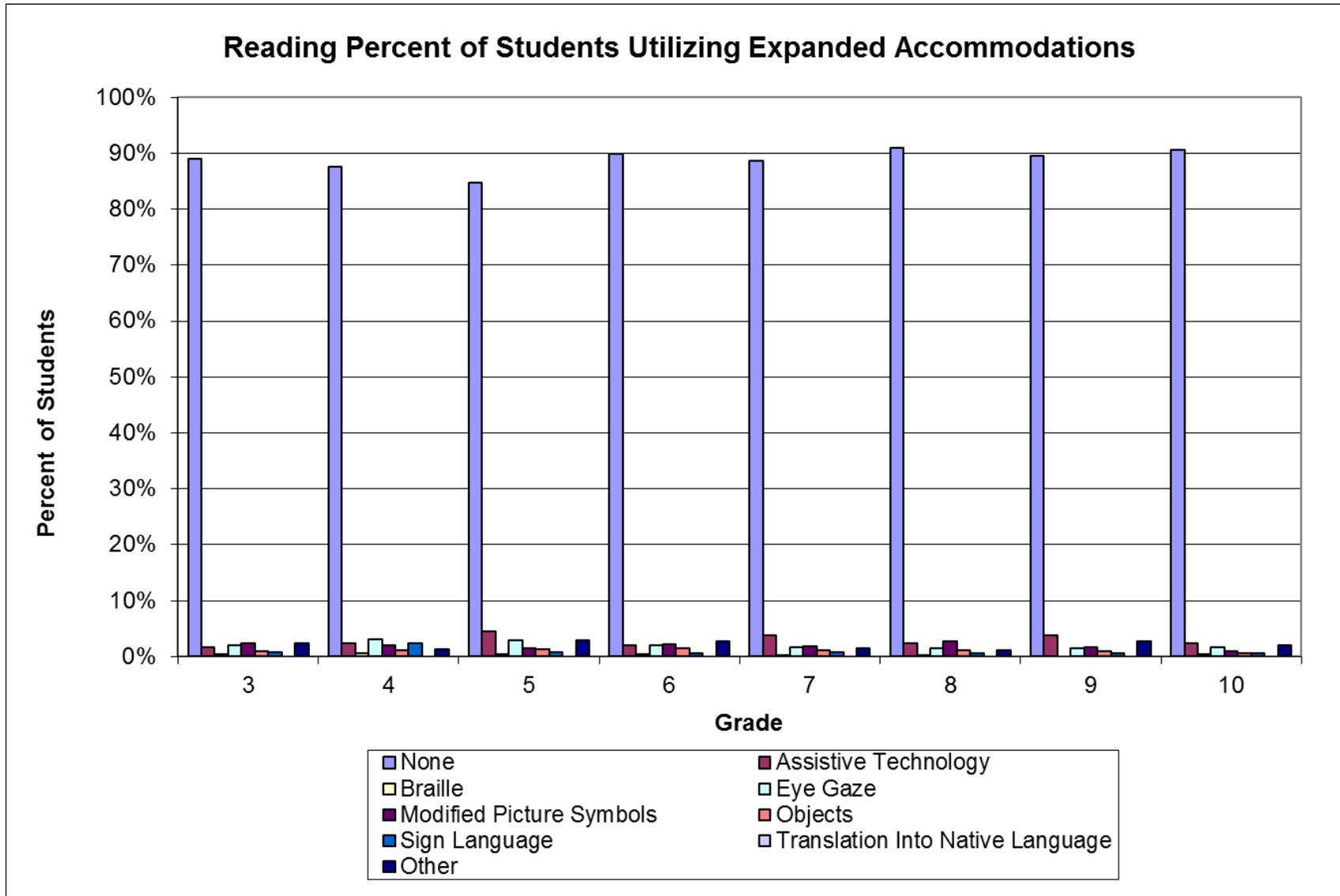


Figure 4
Writing Percent of Students Utilizing Expanded Accommodations

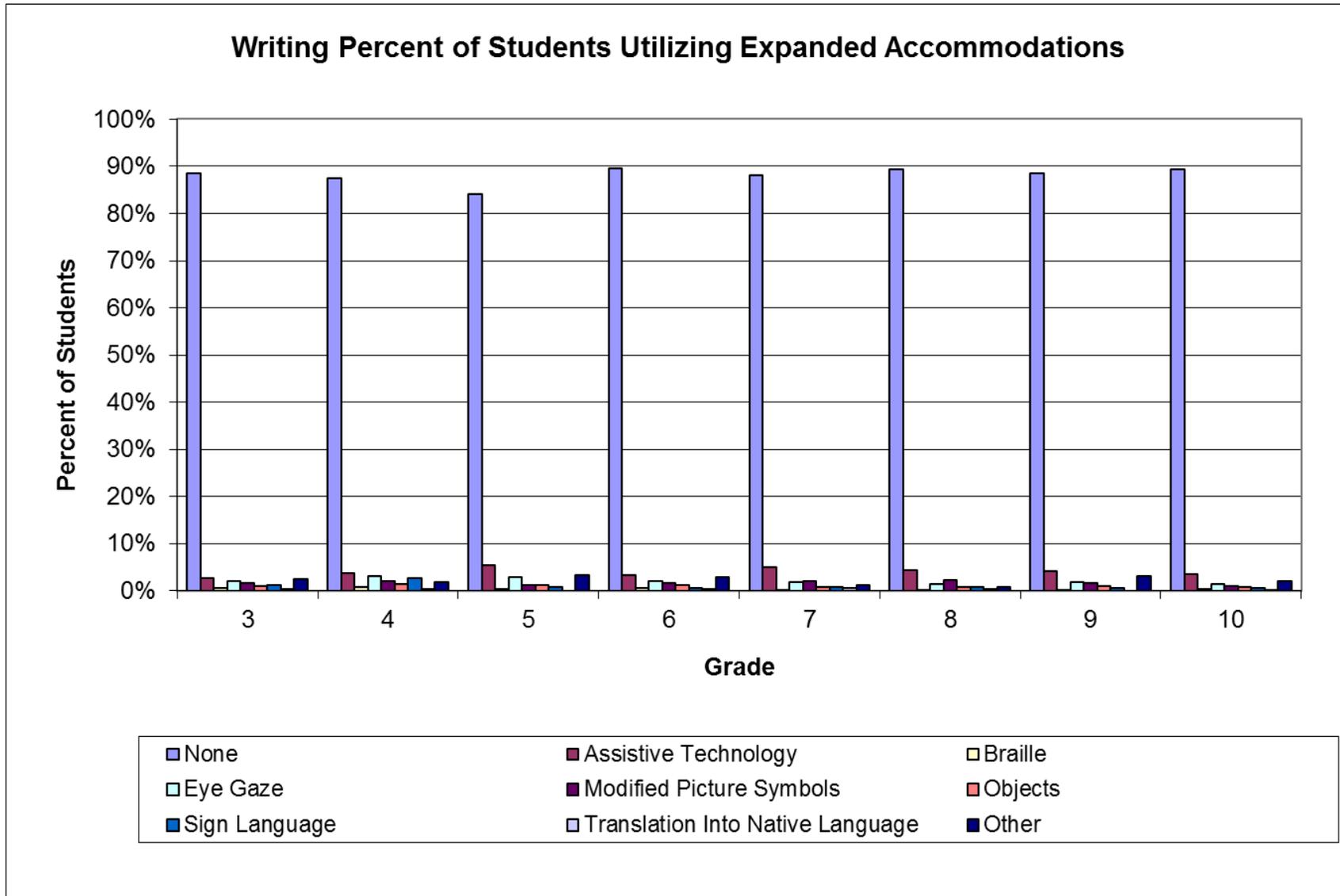


Figure 5
Mathematics Percent of Students Utilizing Expanded Accommodations

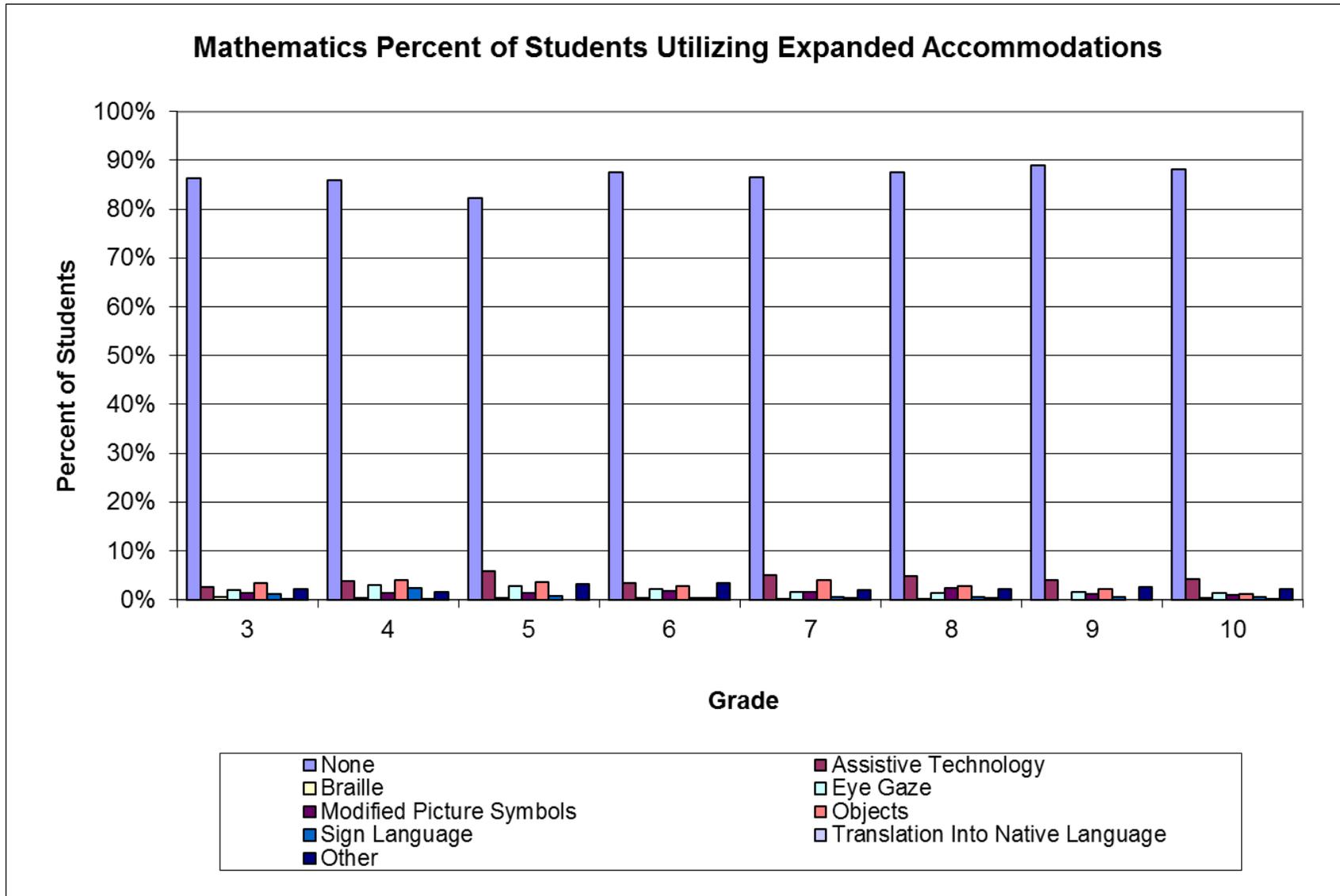


Figure 6
Reading Mean Percent of Total Possible Score by Gender

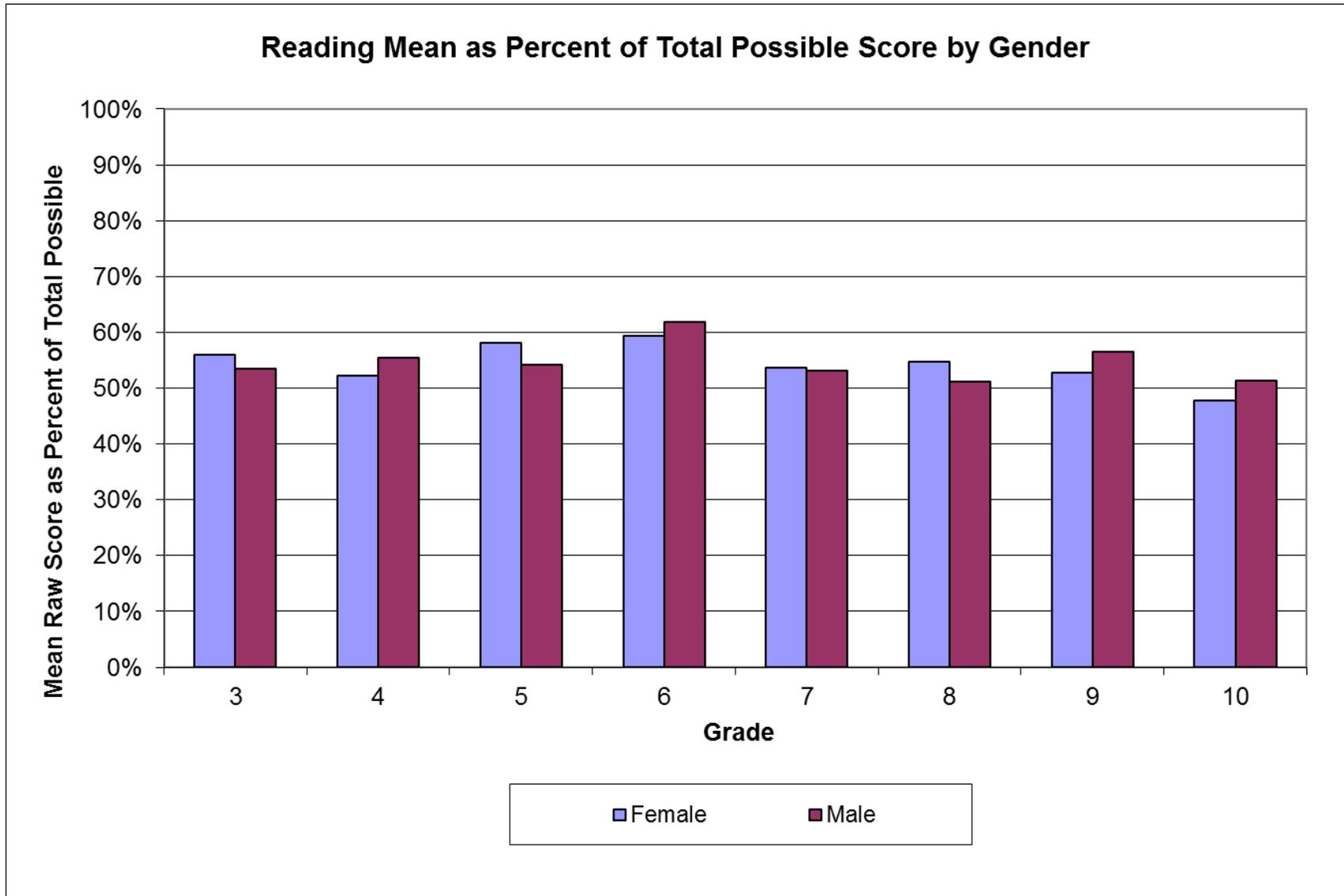


Figure 7
Writing Mean as Percent of Total Possible Score by Gender

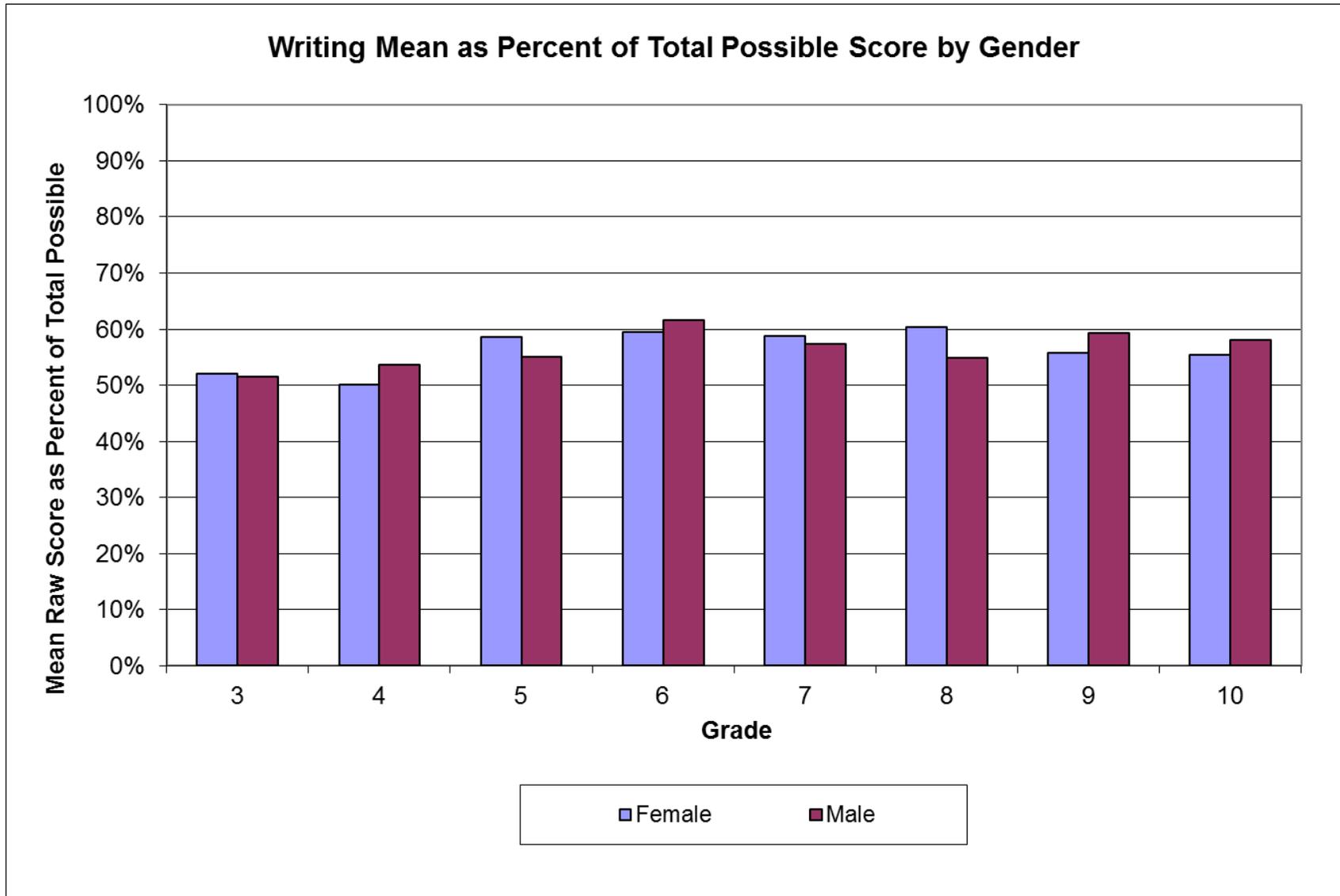


Figure 8
Mathematics Mean as Percent of Total Possible Score by Gender

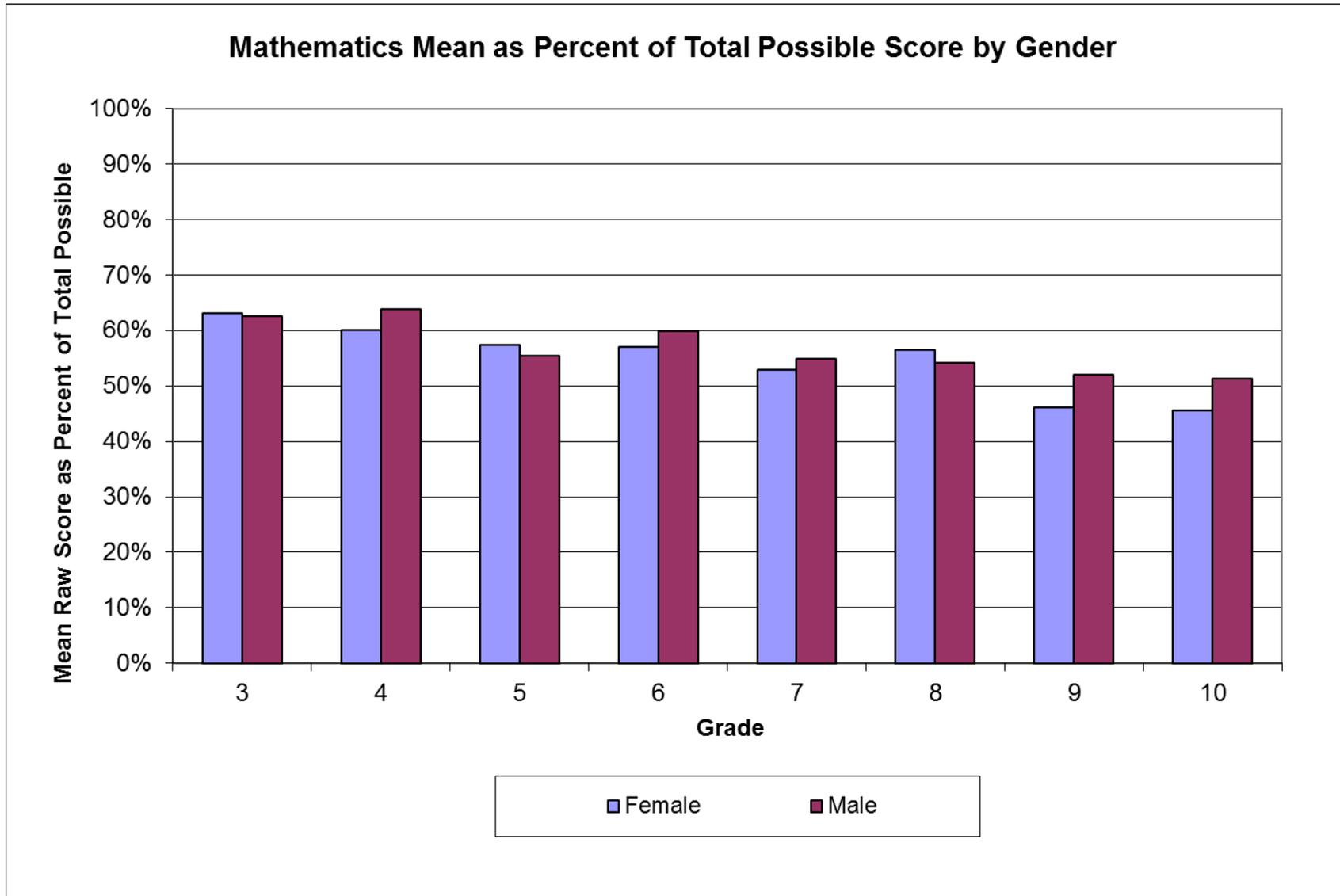


Figure 9
Reading Mean as Percent of Total Possible Score by Race/Ethnicity

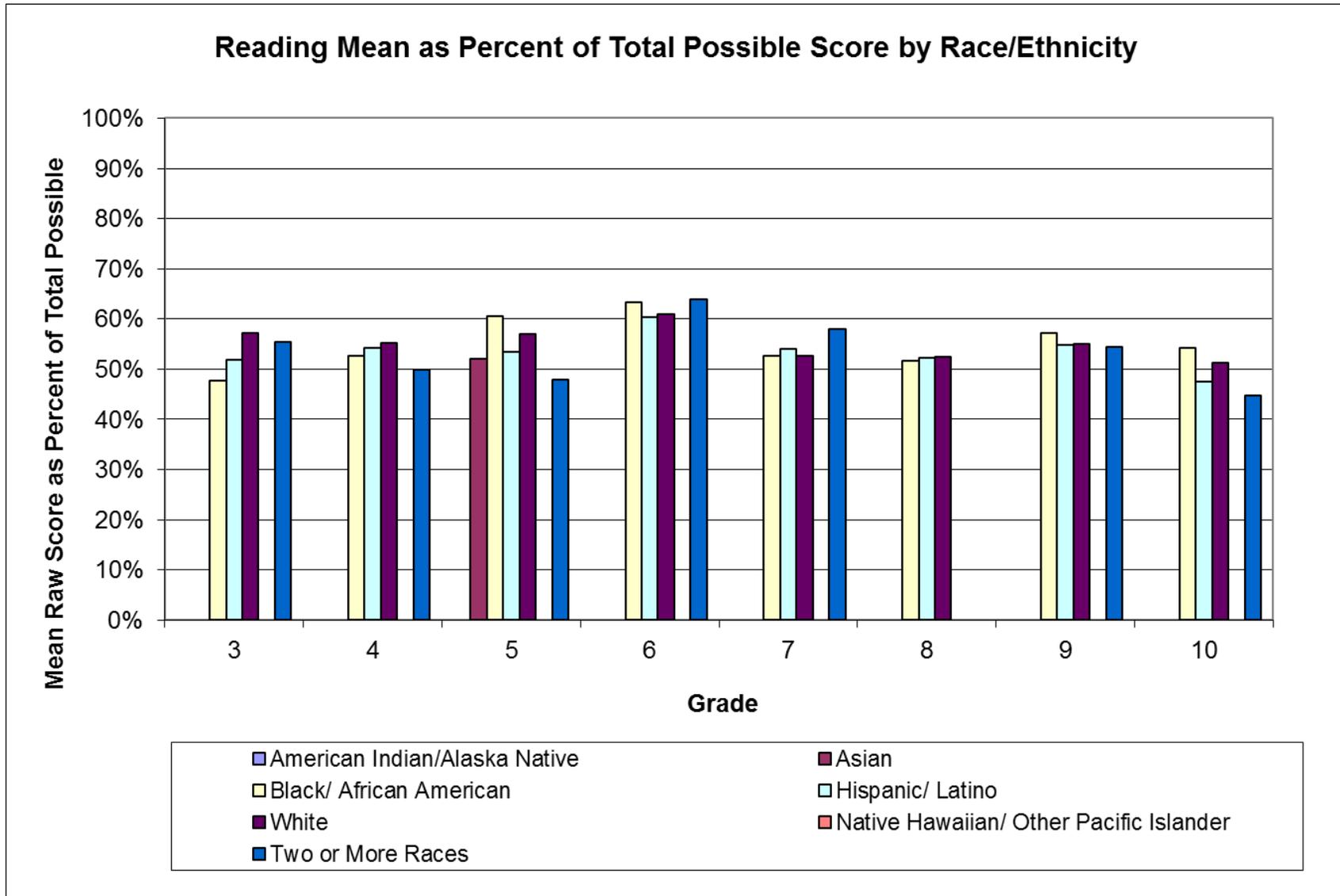


Figure 10
Writing Mean as Percent of Total Possible Score by Race/Ethnicity

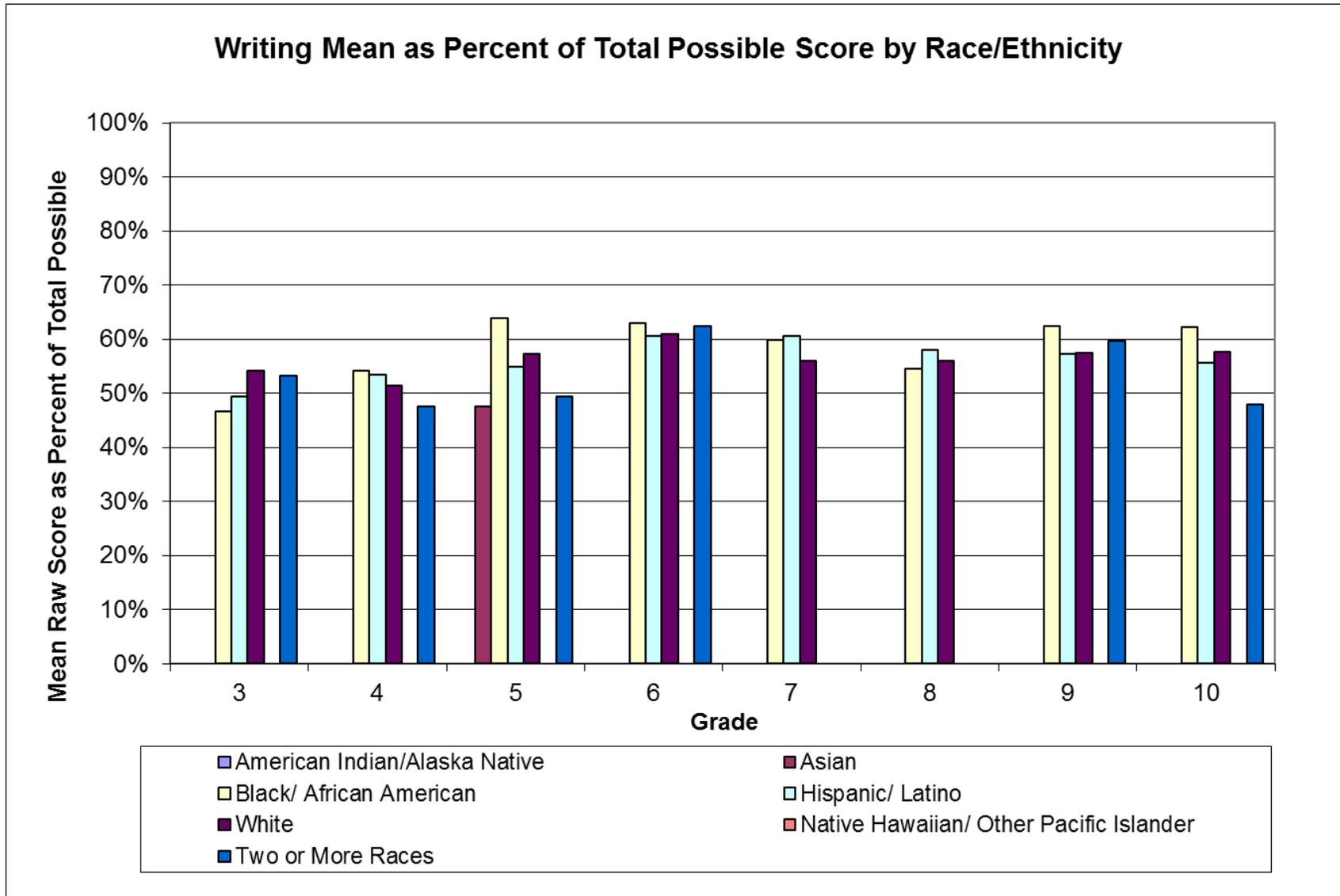


Figure 11
Mathematics Mean as Percent of Total Possible Score by Race/Ethnicity

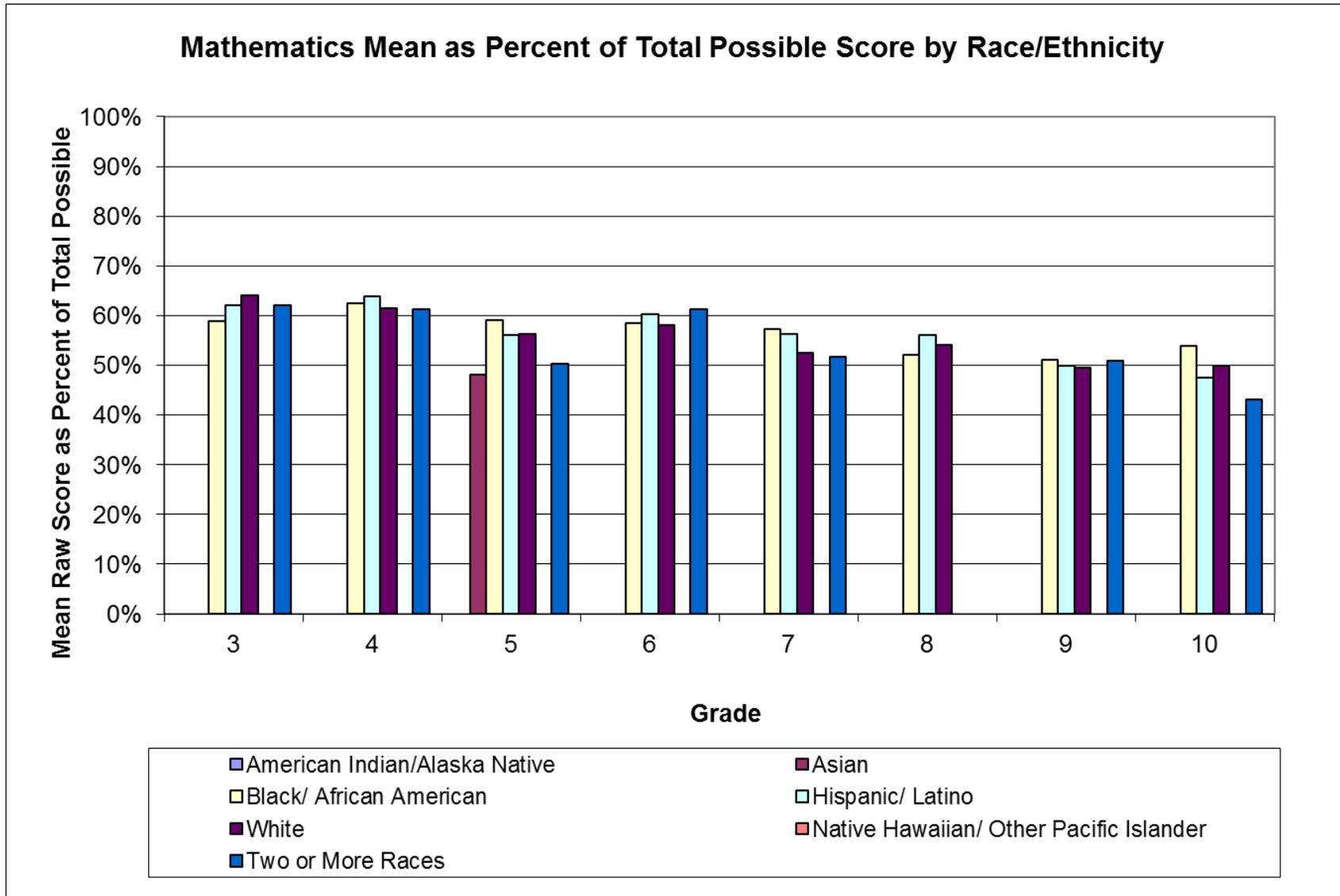


Figure 12
Reading Impact Data

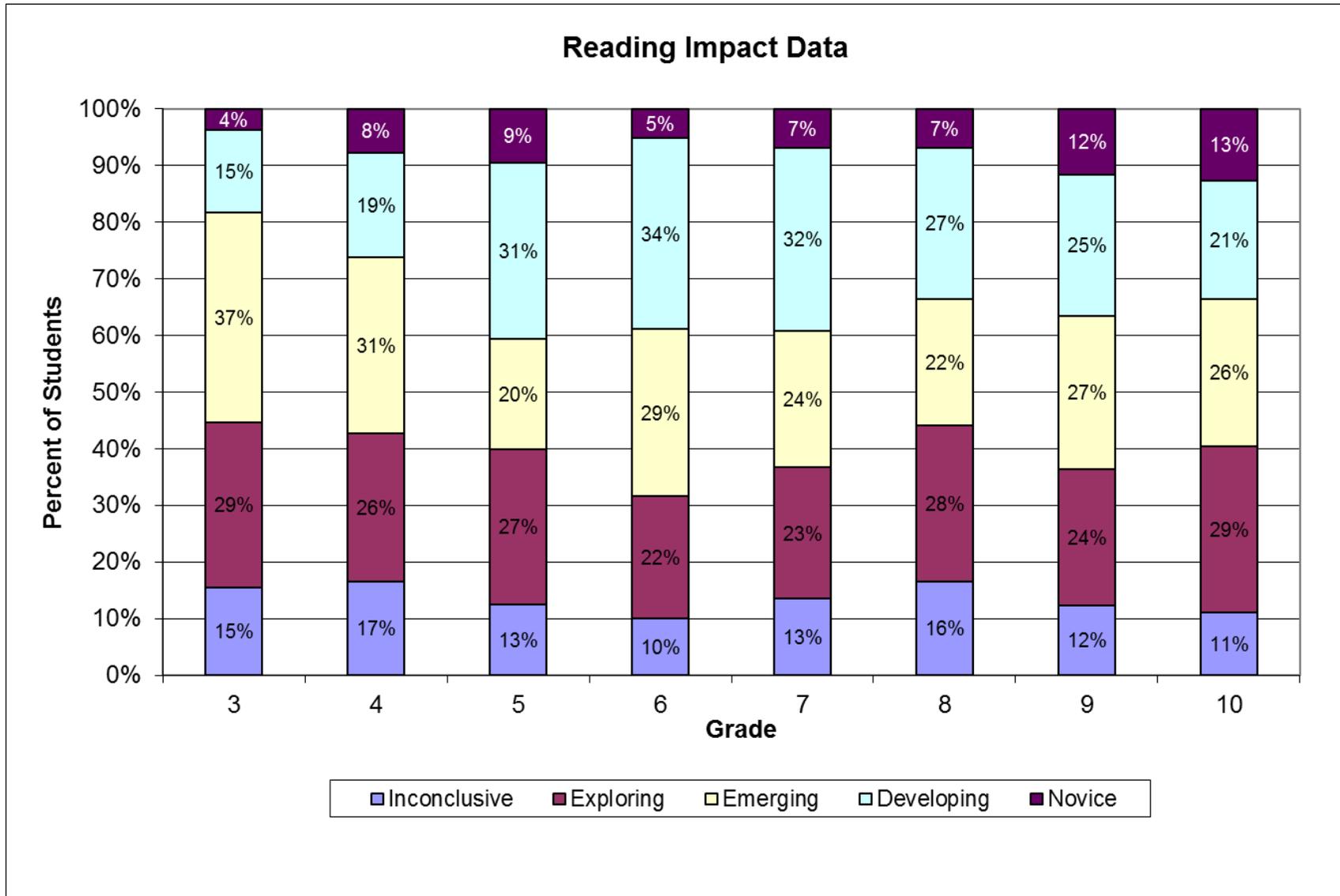


Figure 13
Writing Impact Data

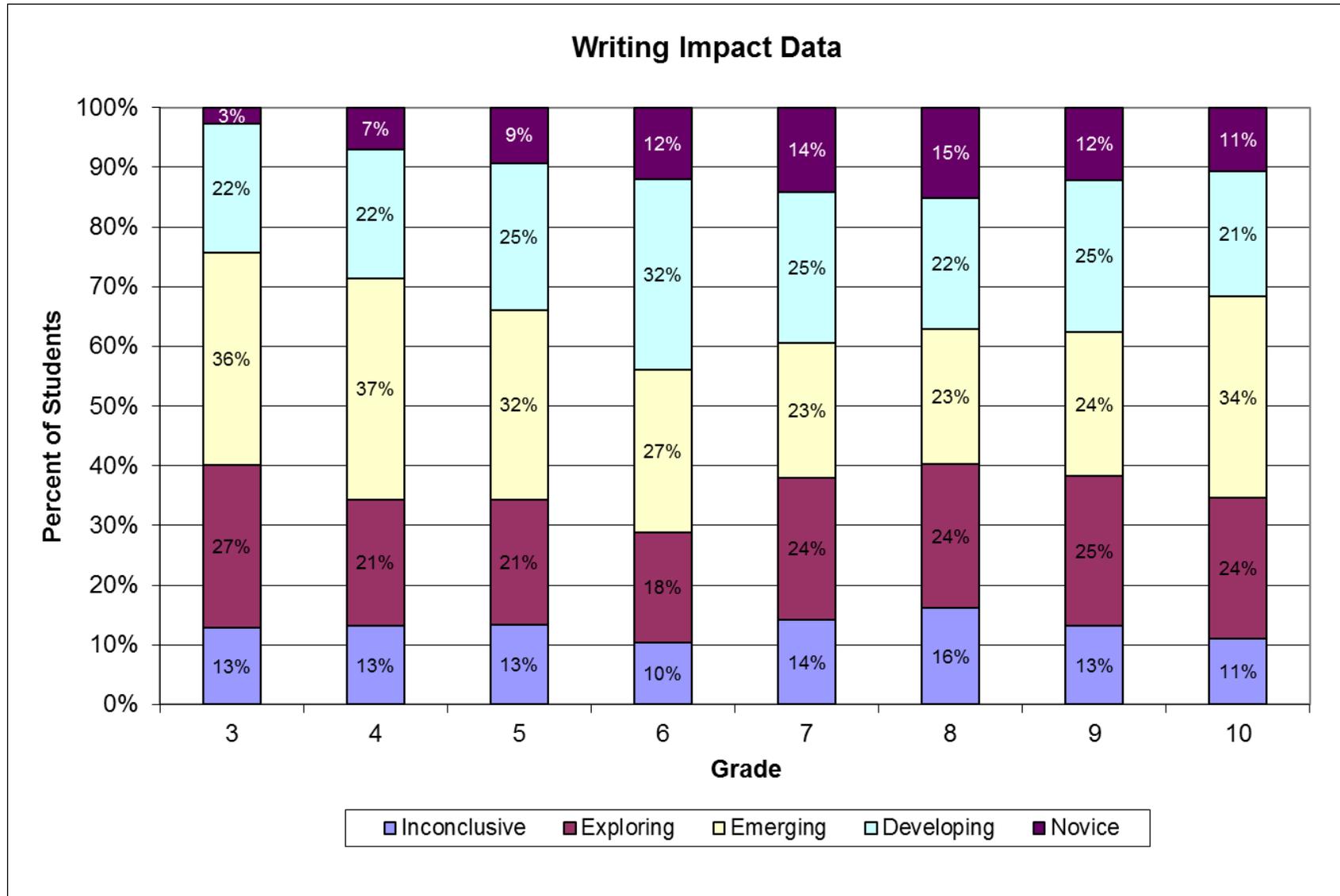


Figure 14
Mathematics Impact Data

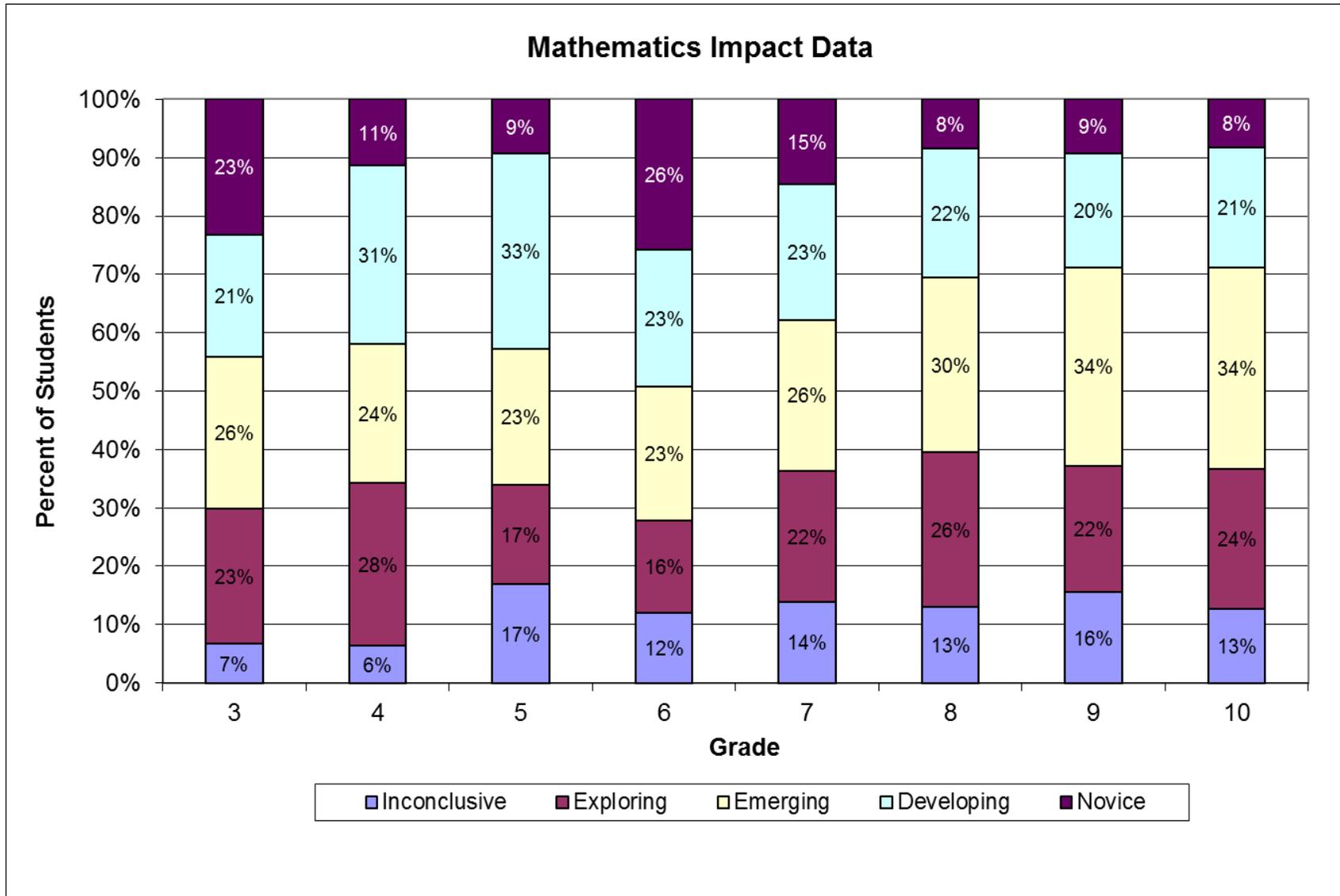


Figure 15
Impact Data—Developing and Novice Combined

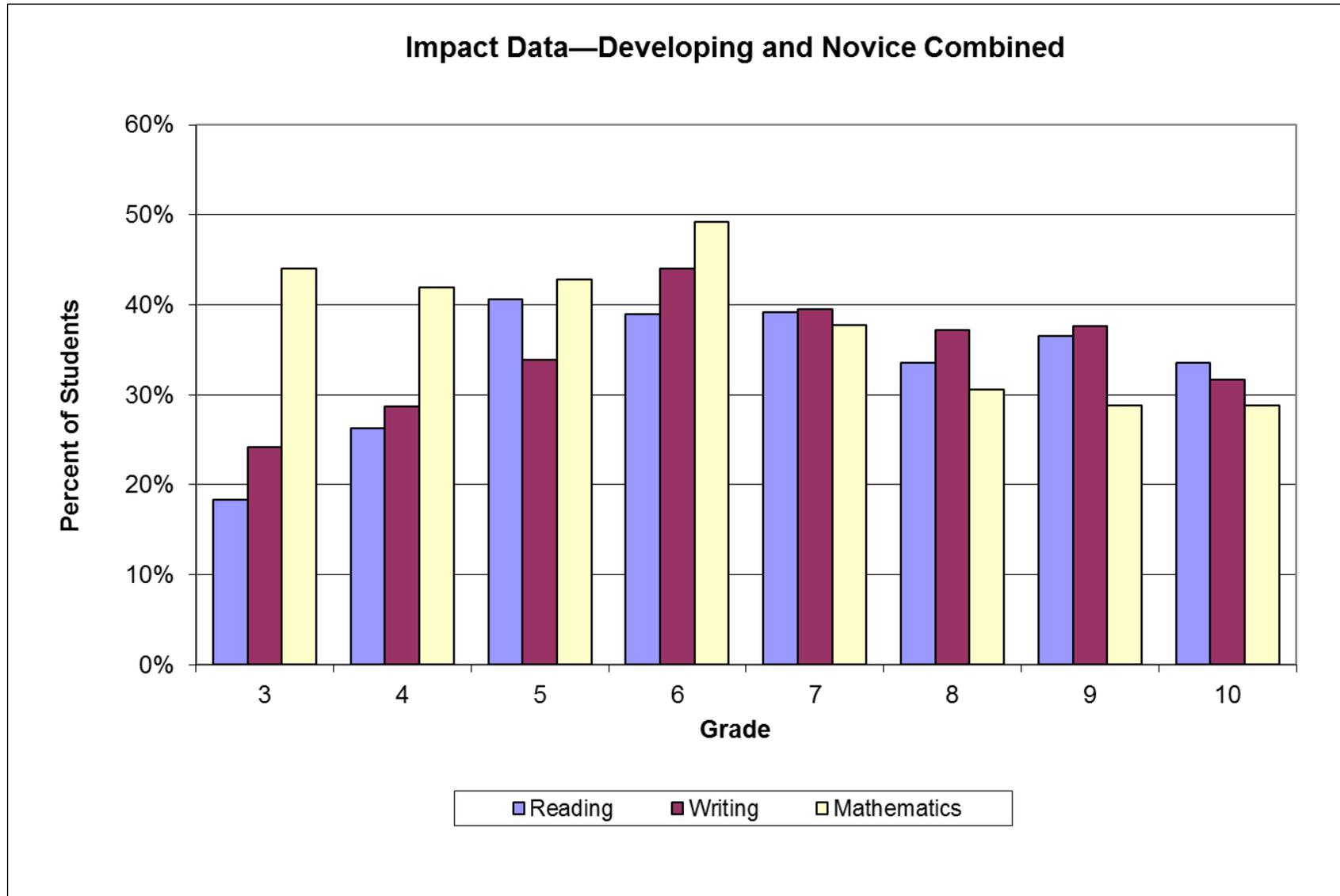


Figure 16

Total Number of Students Participating in CoAlt Reading 2008, 2009, 2010, 2011, 2012, 2013, and 2014

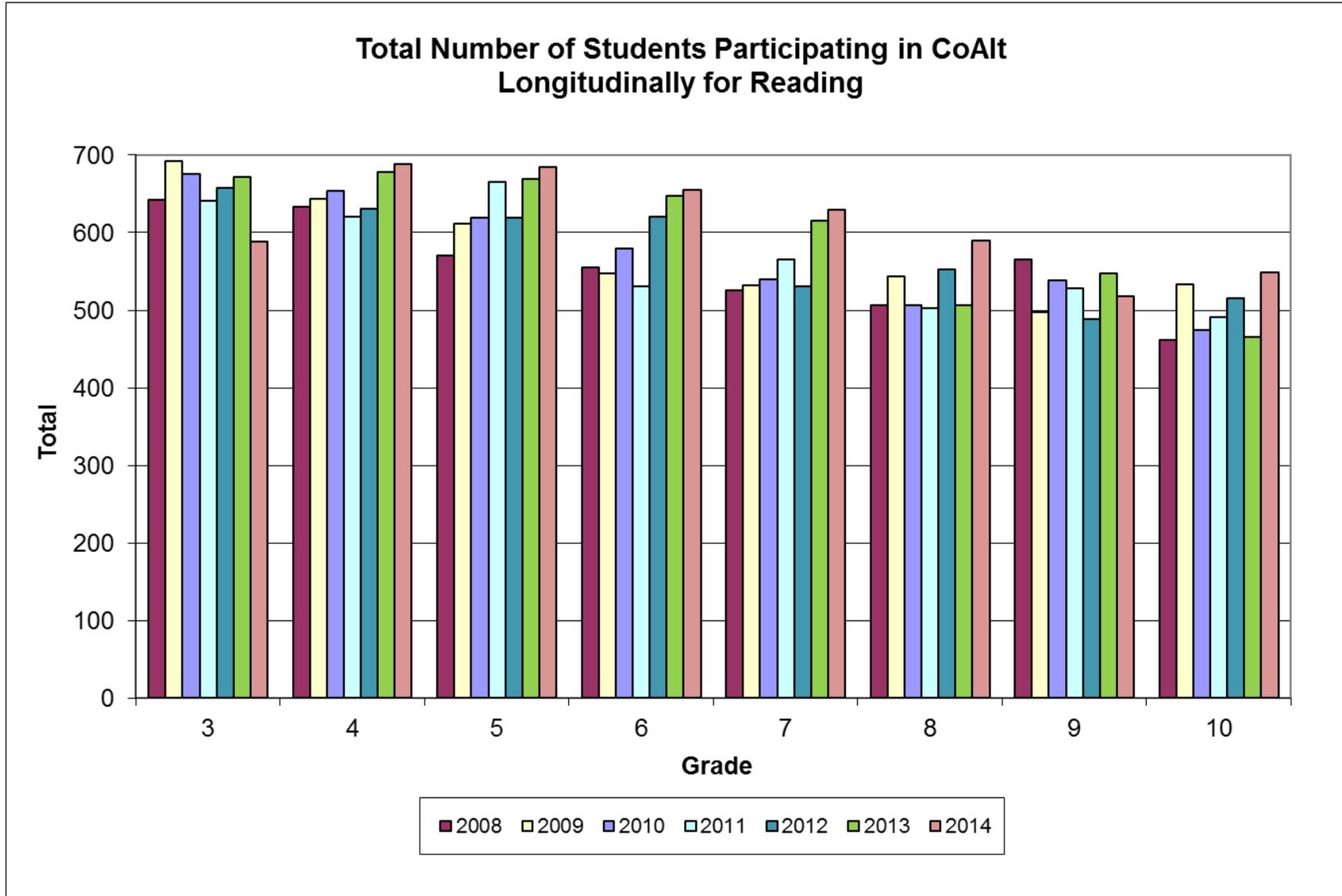


Figure 17

Total Number of Students Participating in CoAlt Writing 2008, 2009, 2010, 2011, 2012, 2013, and 2014

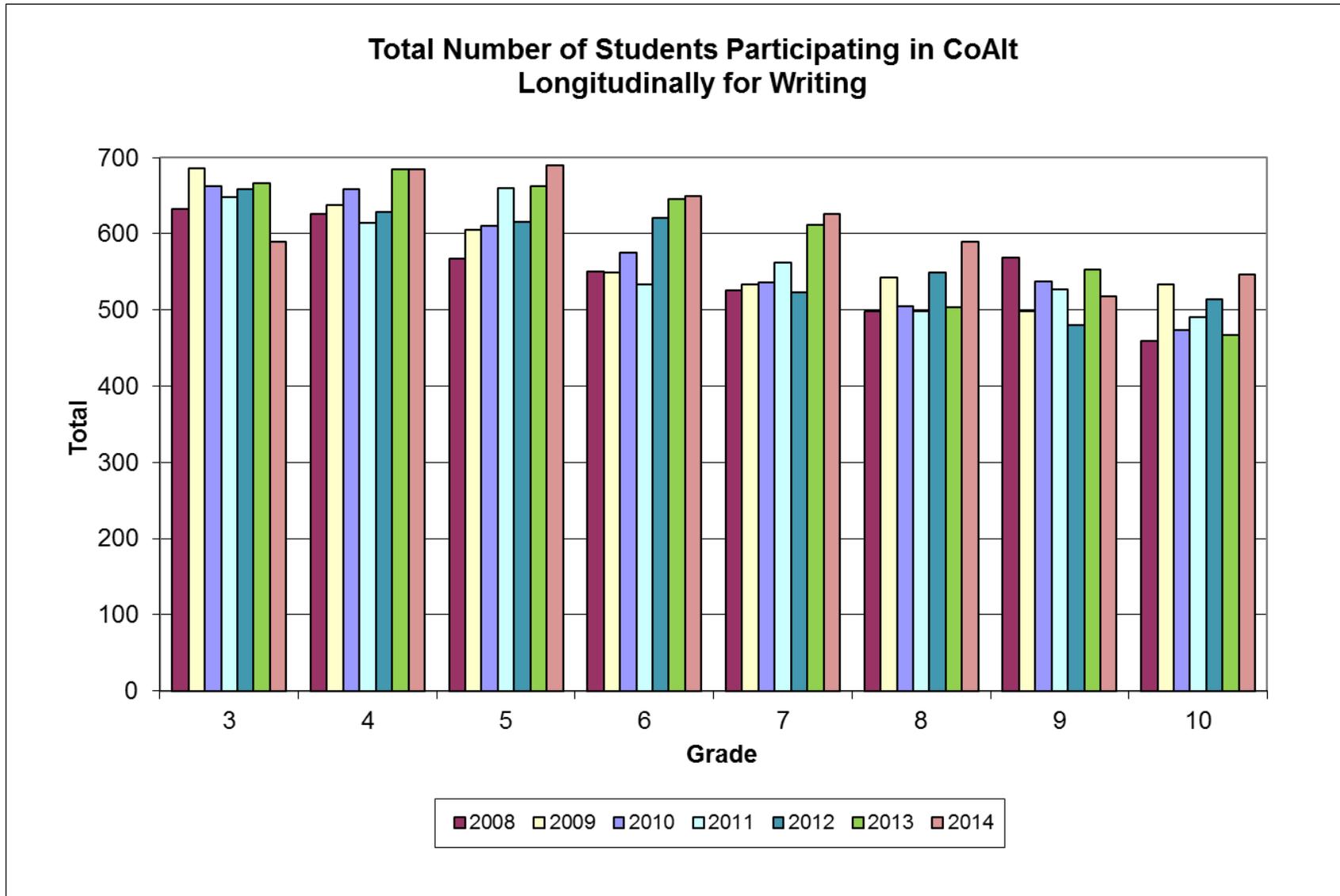


Figure 18

Total Number of Students Participating in CoAlt Mathematics 2007, 2008, 2009, 2010, 2011, 2012, 2013, and 2014

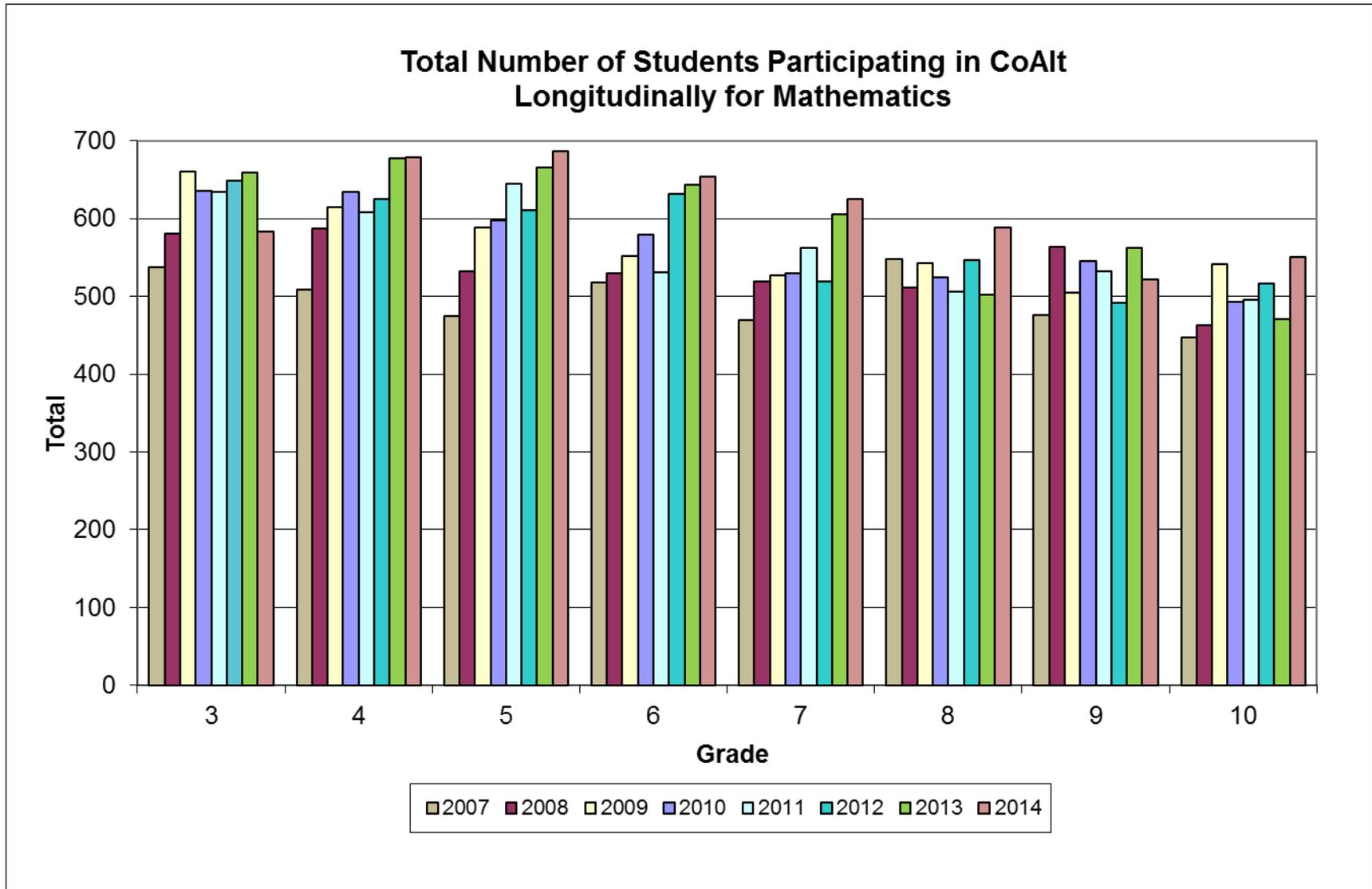


Figure 19

Mean Score as Percent of Total for Reading 2008, 2009, 2010, 2011, 2012, 2013, and 2014

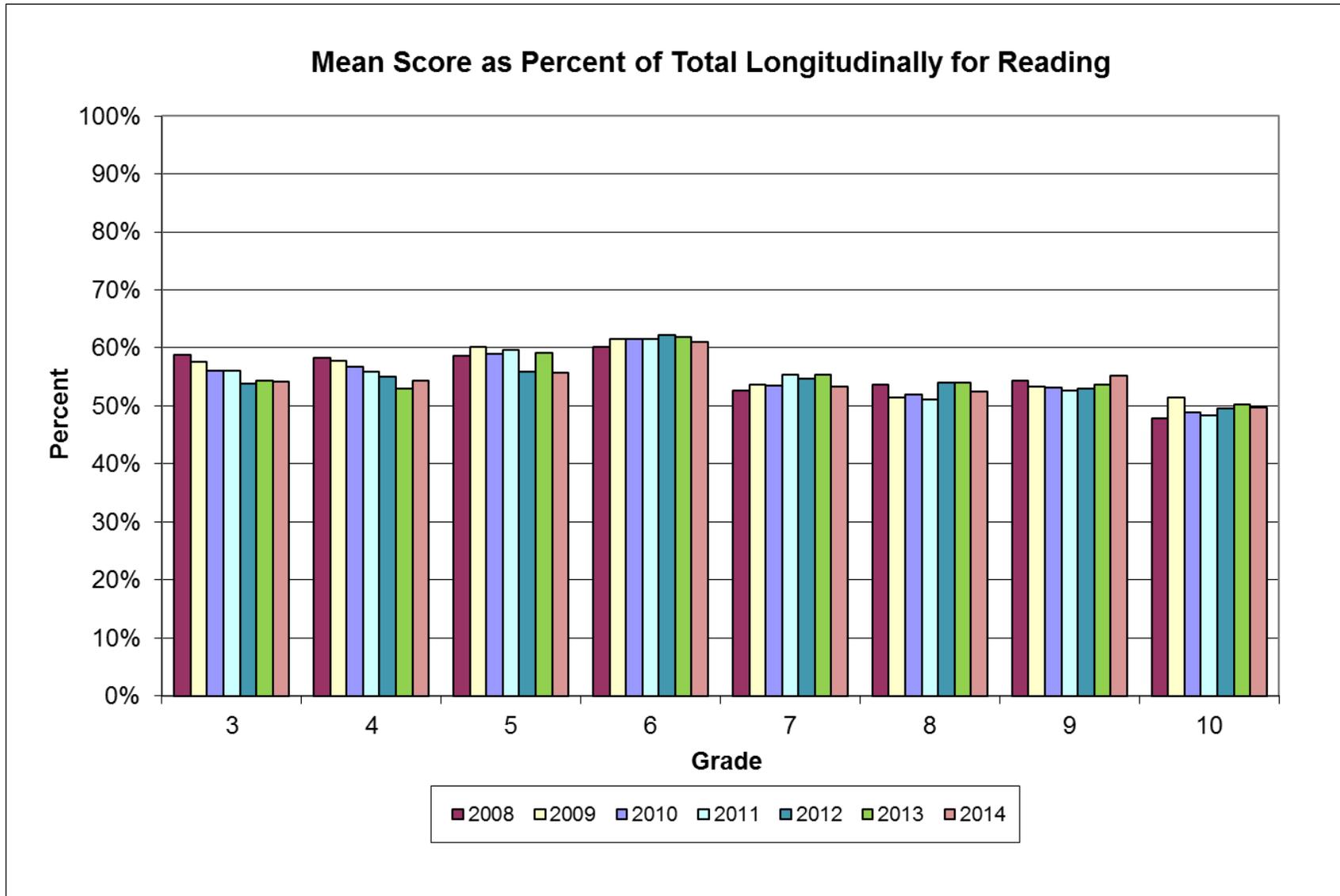


Figure 20

Mean Score as Percent of Total for Writing 2008, 2009, 2010, 2011, 2012, 2013, and 2014

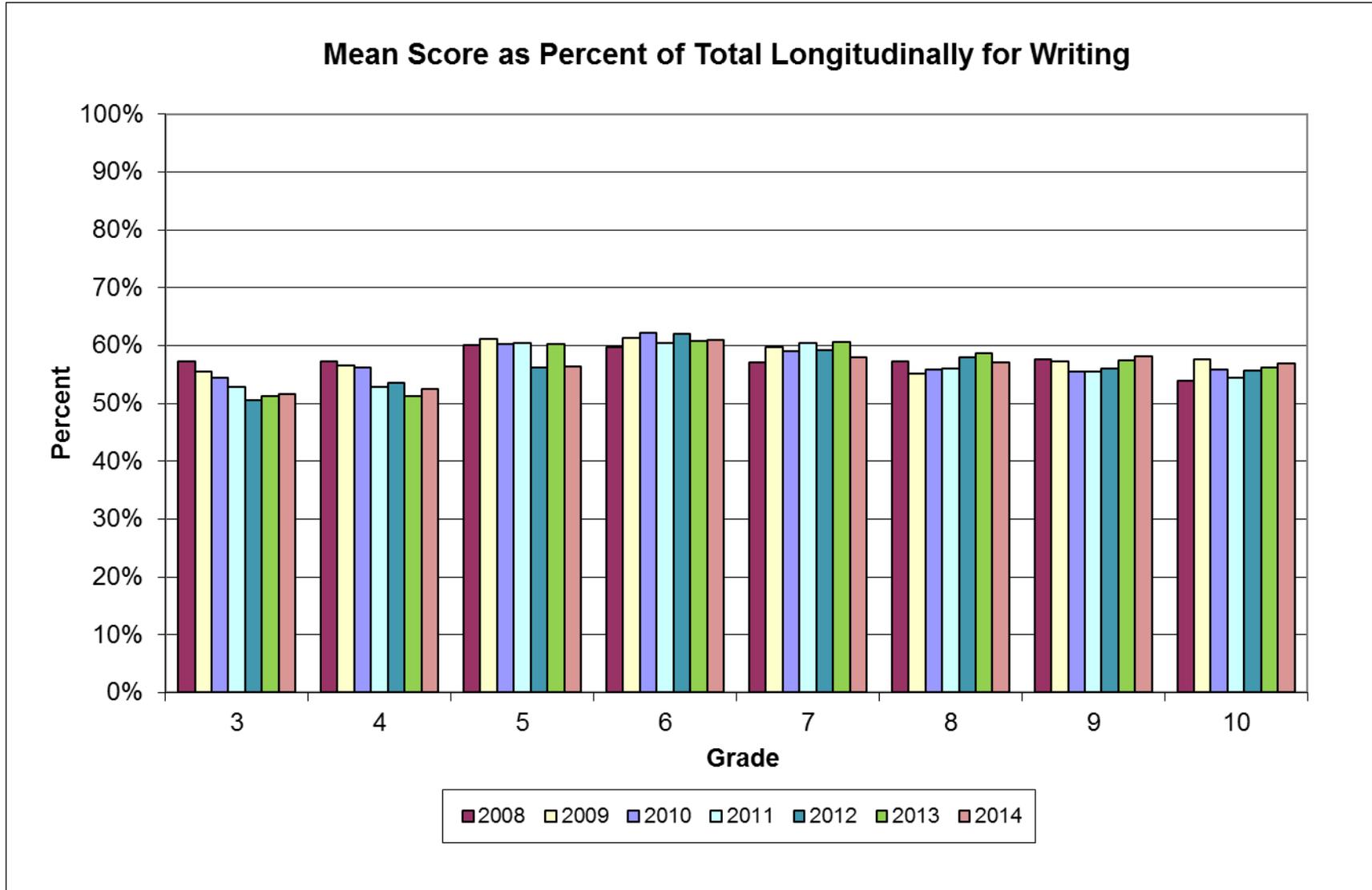


Figure 21

Mean Score as Percent of Total for Mathematics 2007, 2008, 2009, 2010, 2011, 2012, 2013, and 2014

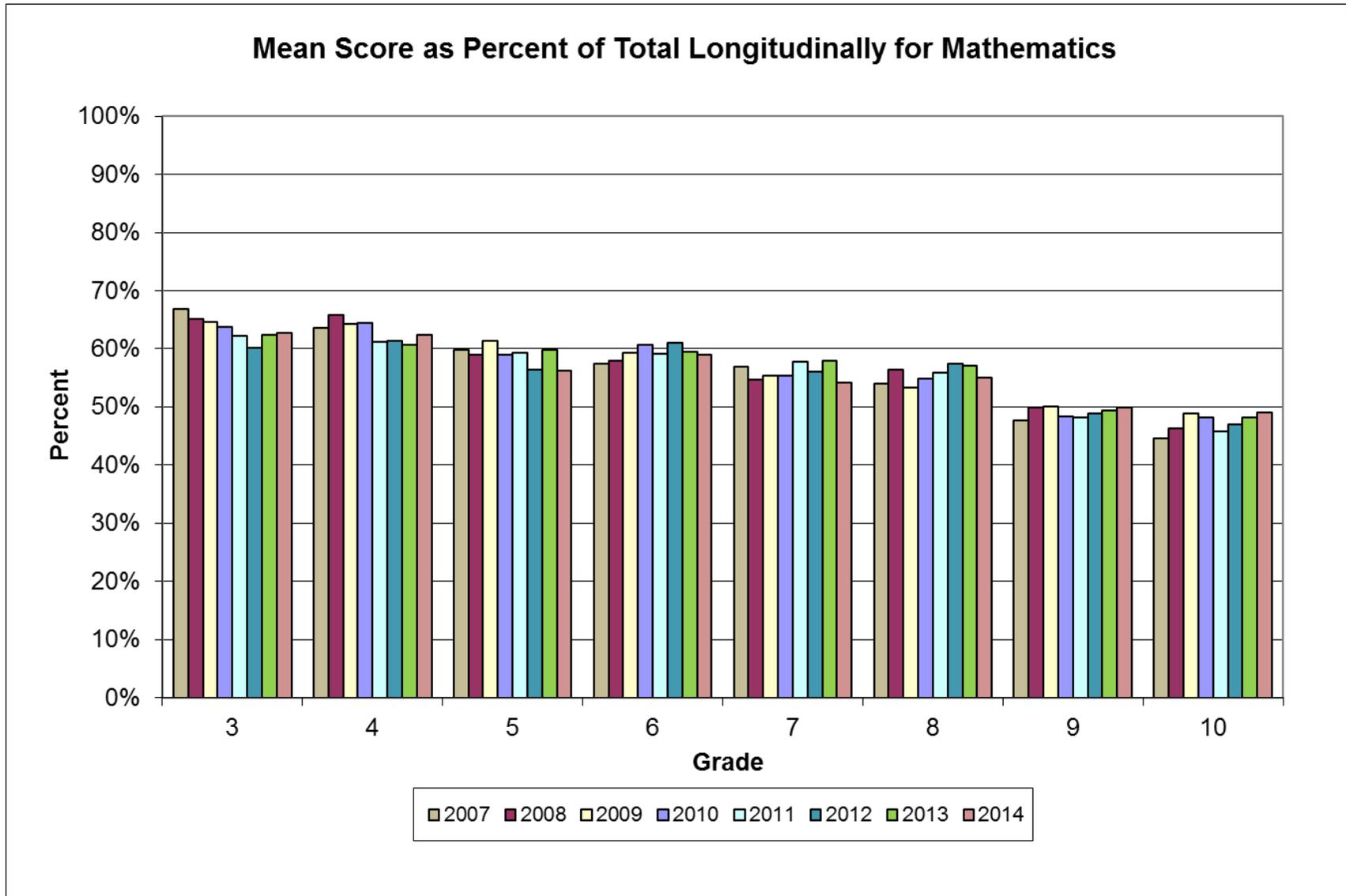


Figure 22
Percent of Participating Students by Coded Disability Longitudinally for Reading

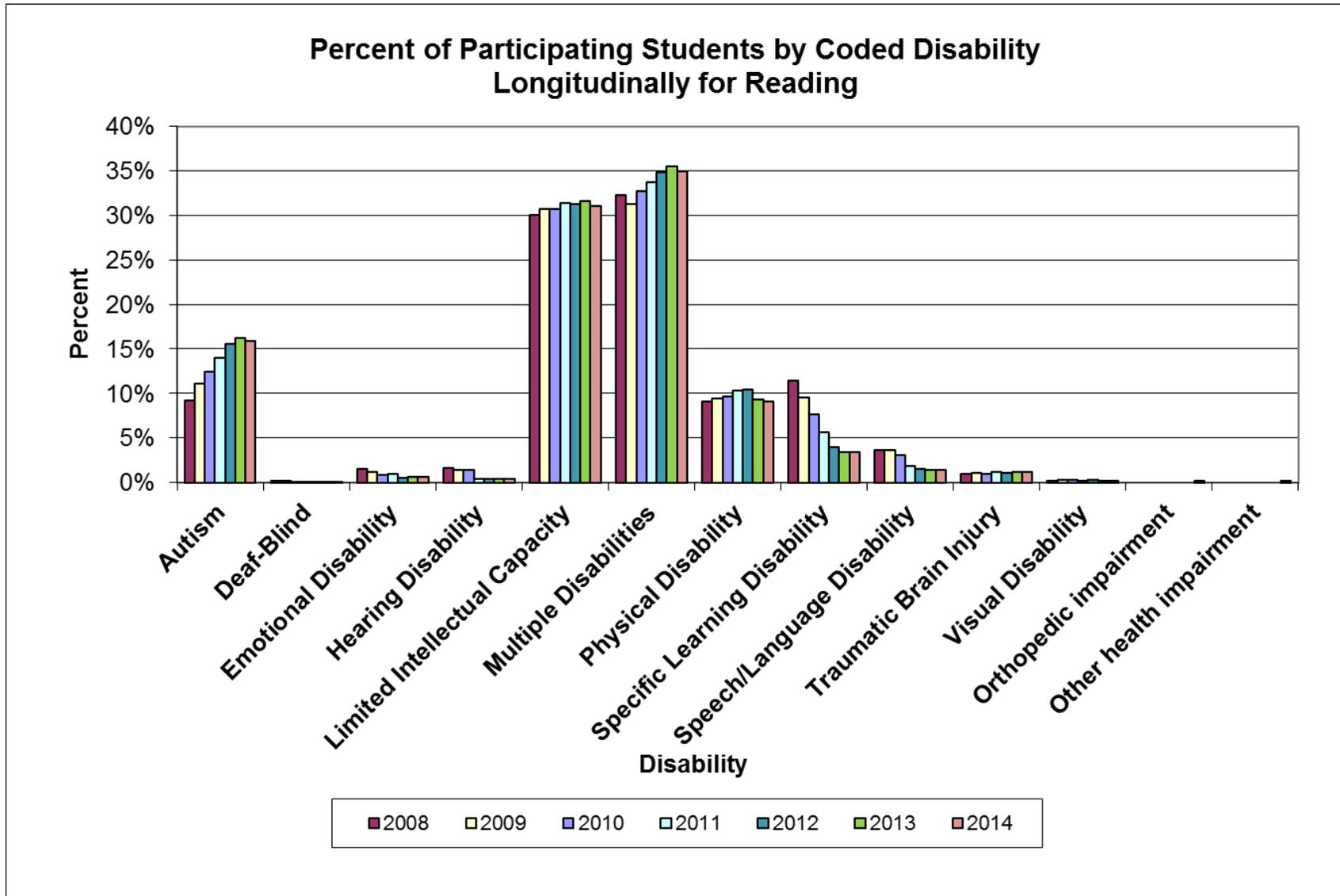


Figure 23
Percent of Participating Students by Coded Disability Longitudinally for Writing

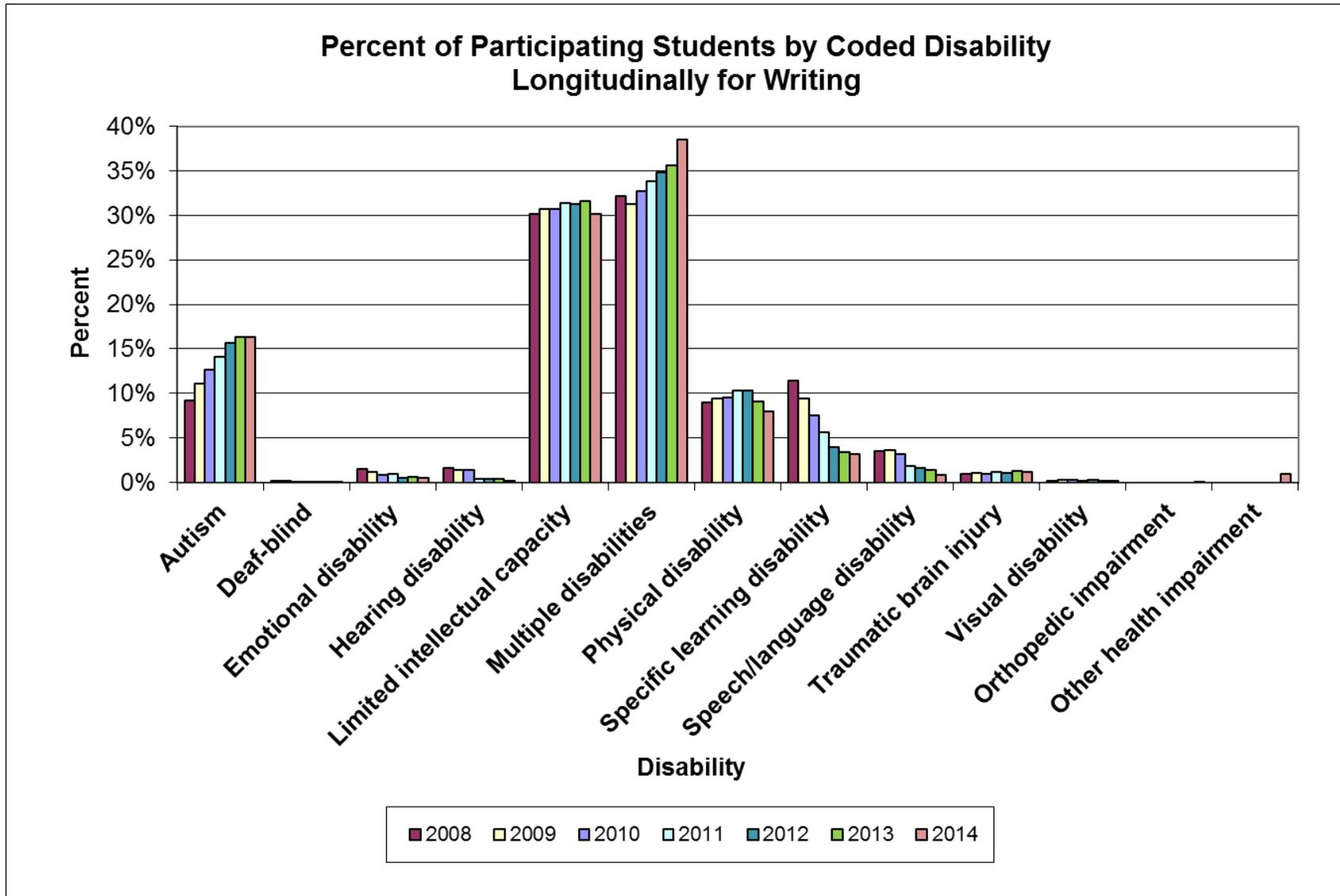
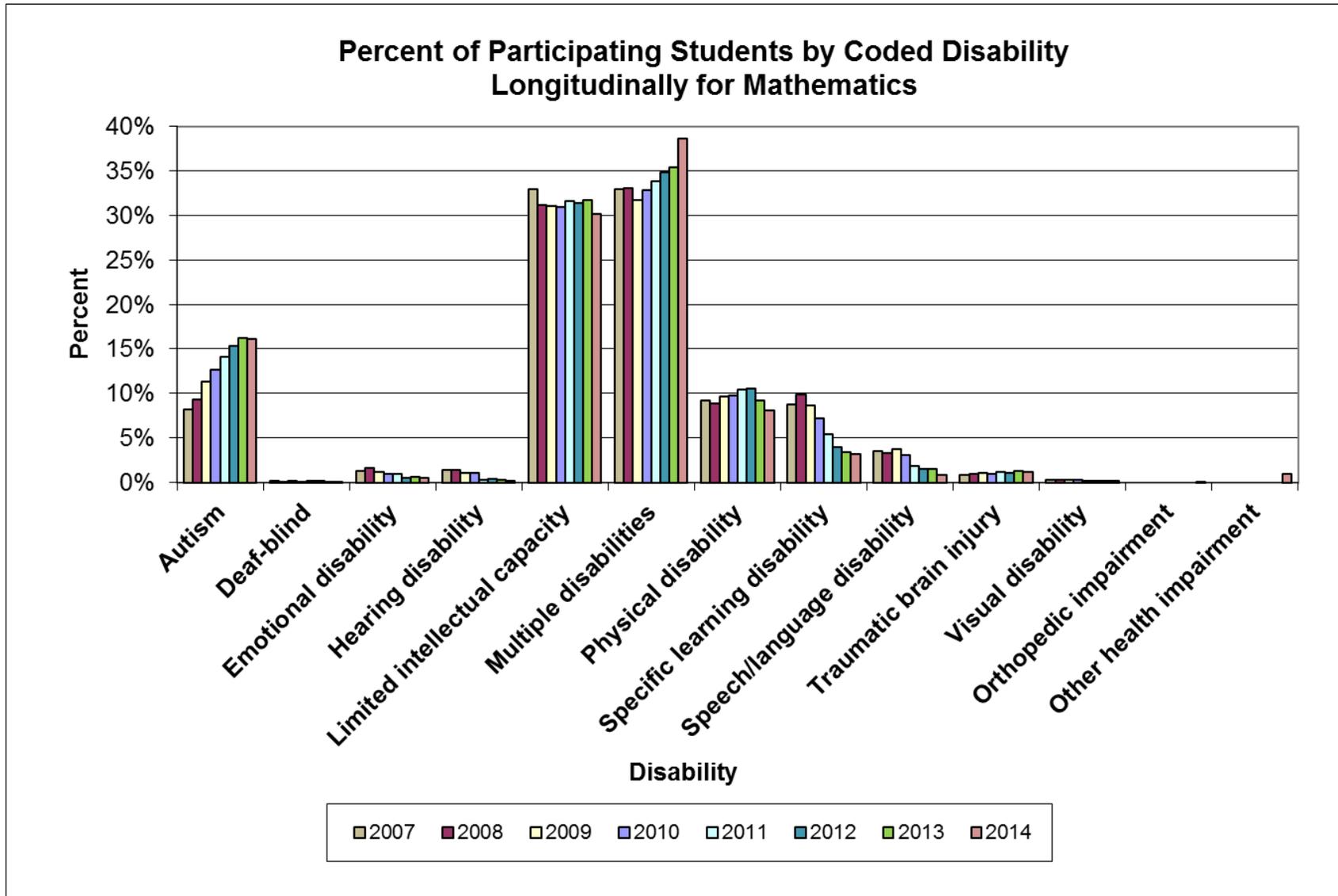


Figure 24
Percent of Participating Students by Coded Disability Longitudinally for Mathematics



Appendix A: Location of Information for Peer Review Critical Elements

Peer Review Chapter 1

1. Overview, Part 1: Standards, and Part 8: Summary of Results—Reliability and Validity
2. Overview, Part 1: Standards, and Part 8: Summary of Results—Reliability and Validity
3. Part 1: Standards and Part 7: Analyses and Results
4. Overview, Part 1: Standards, and Part 8: Summary of Results—Reliability and Validity

Peer Review Chapter 2

1. Overview, Part 1: Standards, Part 2: Test Development, Part 6: Standard Setting, Part 7: Analyses and Results, and Part 8: Summary of Results—Reliability and Validity
2. Overview, Part 1: Standards, Part 2: Test Development, Part 6: Standard Setting, Part 7: Analyses and Results, and Part 8: Summary of Results—Reliability and Validity
3. Overview, Part 1: Standards, Part 6: Standard Setting, Part 7: Analyses and Results, Part 8: Summary of Results—Reliability and Validity, Part 9: Special Studies, and Part 10: Longitudinal Analyses
4. None
5. Part 1: Standards and Part 2: Test Development
6. Part 1: Standards, Part 2: Test Development, and Part 6: Standard Setting

Peer Review Chapter 3

1. None
2. None
3. None
4. Part 1: Standards, Part 2: Test Development, Part 3: Description of the Population, Part 4: Test Administration, Part 6: Standard Setting, and Part 8: Summary of Results—Reliability and Validity
5. None
6. Part 2: Test Development, Part 7: Analyses and Results, and Part 9: Special Studies
7. Overview, Part 1: Standards, Part 2: Test Development, Part 3: Description of the Population, Part 4: Test Administration, and Part 10: Longitudinal Analyses

Peer Review Chapter 5

1. Part 1: Standards, Part 2: Test Development, Part 6: Standard Setting, Part 7: Analyses and Results, Part 8: Summary of Results—Reliability and Validity, and Part 10: Longitudinal Analyses
2. Part 1: Standards, Part 7: Analyses and Results, and Part 8: Summary of Results—Reliability and Validity
3. Part 1: Standards, Part 2: Test Development, and Part 8: Summary of Results—Reliability and Validity
4. Part 2: Test Development and Part 8: Summary of Results—Reliability and Validity

5. Part 2: Test Development, Part 8: Summary of Results—Reliability and Validity, and Part 9: Special Studies
6. Part 7: Analyses and Results and Part 8: Summary of Results—Reliability and Validity
7. Part 2: Test Development

Peer Review Chapter 6

1. Part 3: Description of the Population, Part 7: Analyses and Results, Part 8: Summary of Results—Reliability and Validity, and Part 10: Longitudinal Analyses
2. Overview, Part 3: Description of the Population, Part 4: Test Administration, Part 7: Analyses and Results, Part 8: Summary of Results—Reliability and Validity, and Part 10: Longitudinal Analyses
3. Part 3: Description of the Population, Part 4: Test Administration, Part 7: Analyses and Results, and Part 8: Summary of Results—Reliability and Validity
4. Part 3: Description of the Population, Part 7: Analyses and Results, and Part 8: Summary of Results—Reliability and Validity