

CMAS Mathematics & ELA (including CSLA)

Technical Report 2018 – Tables

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Table 1. CMAS Mathematics Scale Score Ranges

Grade	Did Not Yet Meet Expectations	Partially Met Expectations	Approached Expectations	Met Expectations	Exceeded Expectations
3	650–699	700–724	725–749	750–789	790–850
4	650–699	700–724	725–749	750–795	796–850
5	650–699	700–724	725–749	750–789	790–850
6	650–699	700–724	725–749	750–787	788–850
7	650–699	700–724	725–749	750–785	786–850
8	650–699	700–724	725–749	750–800	801–850

Table 2. CMAS ELA and CSLA Scale Score Ranges

Content Area	Grade	Did Not Yet Meet Expectations	Partially Met Expectations	Approached Expectations	Met Expectations	Exceeded Expectations
ELA	3	650–699	700–724	725–749	750–809	810–850
	4	650–699	700–724	725–749	750–789	790–850
	5	650–699	700–724	725–749	750–798	799–850
	6	650–699	700–724	725–749	750–789	790–850
	7	650–699	700–724	725–749	750–784	785–850
	8	650–699	700–724	725–749	750–793	794–850
CSLA	3	650–699	700–724	725–749	750–778	779–850
	4	650–699	700–724	725–749	750–771	772–850

Table 3. Coefficient Alpha

Content Area	Grade	Subclaim 1	Subclaim 2	Subclaim 3	Reading Claim	Subclaim 4	Subclaim 5	Writing Claim	Full Test
MATH	3	0.88	0.69	0.74		0.49			0.92
	4	0.88	0.66	0.68		0.54			0.91
	5	0.86	0.63	0.63		0.68			0.91
	6	0.82	0.75	0.73		0.60			0.91
	7	0.83	0.63	0.62		0.59			0.89
	8	0.75	0.54	0.65		0.47			0.87
ELA	3	0.78	0.74	0.67	0.89	0.67	0.79	0.75	0.90
	4	0.72	0.75	0.57	0.87	0.72	0.80	0.77	0.89
	5	0.64	0.68	0.43	0.82	0.69	0.78	0.78	0.86
	6	0.72	0.78	0.58	0.88	0.78	0.84	0.80	0.88
	7	0.70	0.73	0.58	0.86	0.86	0.87	0.84	0.88
	8	0.66	0.72	0.53	0.85	0.88	0.89	0.85	0.88
CSLA	3	0.75	0.67	0.53	0.86	0.55	0.77	0.69	0.87
	4	0.75	0.62	0.47	0.83	0.56	0.71	0.70	0.85

Note: For mathematics, Subclaims 1, 2, 3, and 4 are Subclaims A, B, C, and D, respectively. For ELA and CSLA, Subclaims 1, 2, 3, 4, and 5 are RL, RI, RV, WE, and WKL, respectively.

Table 4. Mathematics Grade 3 Performance by Subgroups

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	57,693	743.22	34.60	650	850	0.91
IEP	7,021	705.45	34.72	650	850	0.91
No Accommodation	50,499	746.53	33.99	650	850	0.91
Accommodation	14,215	712.83	33.03	650	850	0.90
Am. Indian/Alaska Native	403	721.17	33.77	650	850	0.91
Asian	1,931	757.95	37.74	650	850	0.91
Black	3,044	724.22	34.94	650	850	0.91
Hispanic	22,632	725.65	33.85	650	850	0.91
White	33,623	748.31	34.94	650	850	0.91
Hawaiian/Pacific Islander	168	730.78	36.48	650	849	0.91
Two or More Races	2,909	743.89	36.10	650	850	0.91
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	35,303	751.04	34.86	650	850	0.91
Economic Disadvantage	29,411	724.82	33.25	650	850	0.90
Female	31,523	738.27	35.01	650	850	0.91
Male	33,191	739.93	37.93	650	850	0.92
Language Proficiency NA	51,964	742.98	36.06	650	850	0.91
Language Proficiency NEP	3,211	698.84	29.07	650	850	0.87
Language Proficiency LEP	8,289	727.85	30.11	650	850	0.89
Language Proficiency FEP	1,250	757.12	31.01	650	850	0.89
Not Migrant	64,516	739.19	36.55	650	850	0.92
Migrant	198	718.71	29.83	650	792	0.88

*n-count less than 16

Table 5. Mathematics Grade 4 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	58,758	738.33	31.53	650	850	0.90
IEP	7,237	703.12	29.16	650	826	0.89
No Accommodation	52,115	741.19	30.99	650	850	0.90
Accommodation	13,880	709.25	28.57	650	850	0.88
Am. Indian/Alaska Native	425	719.27	32.46	650	827	0.91
Asian	2,037	751.98	33.72	650	850	0.91
Black	3,018	719.09	31.31	650	828	0.90
Hispanic	23,122	721.50	29.91	650	850	0.89
White	34,208	743.36	31.79	650	850	0.90
Hawaiian/Pacific Islander	182	734.12	33.22	652	813	0.91
Two or More Races	2,995	738.91	33.15	650	850	0.91
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	36,200	745.88	31.32	650	850	0.90
Economic Disadvantage	29,795	720.60	29.88	650	850	0.89
Female	32,049	733.25	32.21	650	850	0.90
Male	33,946	735.63	33.99	650	850	0.91
Language Proficiency NA	52,769	738.08	32.83	650	850	0.91
Language Proficiency NEP	2,313	698.78	26.22	650	850	0.87
Language Proficiency LEP	8,033	716.75	25.86	650	813	0.86
Language Proficiency FEP	2,880	746.40	27.47	650	850	0.88
Not Migrant	65,785	734.54	33.16	650	850	0.91
Migrant	210	711.92	25.20	650	796	0.85

*n-count less than 16

Table 6. Mathematics Grade 5 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	58,395	740.95	32.51	650	850	0.90
IEP	7,121	704.97	28.16	650	850	0.87
No Accommodation	52,873	743.03	32.16	650	850	0.90
Accommodation	12,643	711.99	29.60	650	850	0.88
Am. Indian/Alaska Native	446	722.45	31.32	650	850	0.89
Asian	2,031	757.60	36.42	650	850	0.91
Black	3,006	722.23	29.77	650	847	0.88
Hispanic	22,922	724.56	30.40	650	850	0.88
White	34,000	745.47	33.09	650	850	0.90
Hawaiian/Pacific Islander	171	730.74	32.34	650	827	0.90
Two or More Races	2,935	740.36	34.82	650	850	0.91
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	36,307	748.07	32.99	650	850	0.90
Economic Disadvantage	29,209	723.34	29.93	650	850	0.88
Female	31,925	737.05	32.52	650	850	0.90
Male	33,591	737.04	35.29	650	850	0.91
Language Proficiency NA	52,228	740.55	33.83	650	850	0.91
Language Proficiency NEP	1,340	701.35	27.31	650	818	0.86
Language Proficiency LEP	6,909	713.59	25.22	650	845	0.82
Language Proficiency FEP	5,039	742.30	28.57	650	850	0.88
Not Migrant	65,316	737.11	33.96	650	850	0.91
Migrant	200	714.35	25.78	651	779	0.83

*n-count less than 16

Table 7. Mathematics Grade 6 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	57,070	736.60	29.86	650	850	0.90
IEP	6,695	702.05	25.62	650	833	0.86
No Accommodation	55,277	737.14	29.89	650	850	0.90
Accommodation	8,488	705.83	26.25	650	833	0.87
Am. Indian/Alaska Native	466	715.81	29.13	650	813	0.89
Asian	2,014	750.16	33.96	650	850	0.91
Black	2,844	716.19	27.05	650	850	0.88
Hispanic	21,934	719.47	27.60	650	850	0.88
White	33,684	742.06	29.69	650	850	0.90
Hawaiian/Pacific Islander	153	729.35	30.73	651	823	0.90
Two or More Races	2,660	737.37	31.95	650	850	0.91
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	36,009	744.06	29.89	650	850	0.90
Economic Disadvantage	27,756	718.58	26.90	650	833	0.88
Female	31,016	733.33	30.00	650	850	0.90
Male	32,749	732.62	32.46	650	850	0.91
Language Proficiency NA	50,882	736.82	30.89	650	850	0.91
Language Proficiency NEP	1,216	695.86	25.51	650	797	0.83
Language Proficiency LEP	5,514	706.17	21.94	650	806	0.79
Language Proficiency FEP	6,153	732.46	25.63	650	850	0.88
Not Migrant	63,582	733.04	31.27	650	850	0.91
Migrant	183	707.79	28.71	650	780	0.88

*n-count less than 16

Table 8. Mathematics Grade 7 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	53,817	736.48	27.13	650	850	0.89
IEP	6,166	703.93	25.44	650	800	0.84
No Accommodation	52,514	736.64	27.23	650	850	0.89
Accommodation	7,469	708.52	26.81	650	850	0.86
Am. Indian/Alaska Native	447	721.06	27.13	650	791	0.86
Asian	1,928	749.40	28.74	650	850	0.90
Black	2,784	718.61	27.21	650	850	0.86
Hispanic	21,479	721.53	26.44	650	838	0.85
White	30,721	741.44	26.83	650	850	0.89
Hawaiian/Pacific Islander	162	723.73	25.54	650	783	0.85
Two or More Races	2,453	737.36	28.71	650	850	0.89
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	33,940	742.61	26.98	650	850	0.89
Economic Disadvantage	26,043	720.78	26.10	650	818	0.85
Female	29,265	733.92	27.51	650	850	0.88
Male	30,718	732.39	29.80	650	850	0.90
Language Proficiency NA	47,767	736.65	28.22	650	850	0.89
Language Proficiency NEP	1,428	699.67	23.48	650	790	0.77
Language Proficiency LEP	4,951	709.37	22.66	650	794	0.77
Language Proficiency FEP	5,837	732.70	23.10	650	850	0.85
Not Migrant	59,811	733.20	28.70	650	850	0.89
Migrant	172	710.69	25.90	650	772	0.79

*n-count less than 16

Table 9. Mathematics Grade 8 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	43,634	732.20	35.77	650	850	0.86
IEP	5,555	694.30	29.87	650	850	0.77
No Accommodation	42,910	732.13	35.99	650	850	0.86
Accommodation	6,279	699.14	31.70	650	850	0.80
Am. Indian/Alaska Native	404	711.37	32.49	650	846	0.81
Asian	1,401	747.14	40.92	650	850	0.89
Black	2,457	713.52	35.29	650	843	0.84
Hispanic	19,078	716.13	34.08	650	850	0.83
White	23,875	737.63	36.03	650	850	0.87
Hawaiian/Pacific Islander	138	718.82	36.57	650	812	0.88
Two or More Races	1,831	733.13	37.51	650	850	0.88
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	26,284	739.23	36.17	650	850	0.87
Economic Disadvantage	22,905	714.93	33.84	650	850	0.83
Female	23,757	730.17	36.02	650	850	0.86
Male	25,432	725.81	38.03	650	850	0.88
Language Proficiency NA	39,298	732.27	36.91	650	850	0.87
Language Proficiency NEP	1,348	689.00	28.84	650	817	0.74
Language Proficiency LEP	4,558	701.44	27.38	650	815	0.69
Language Proficiency FEP	3,985	728.40	30.88	650	850	0.81
Not Migrant	49,017	728.00	37.13	650	850	0.87
Migrant	172	704.17	33.48	650	783	0.79

*n-count less than 16

Table 10. ELA Grade 3 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	56,170	743.62	37.65	650	850	0.89
IEP	6,846	698.92	34.46	650	850	0.88
No Accommodation	56,526	743.00	38.22	650	850	0.90
Accommodation	6,490	701.87	34.10	650	850	0.88
Am. Indian/Alaska Native	400	719.32	36.86	650	850	0.89
Asian	1,912	752.05	40.39	650	850	0.91
Black	3,036	724.27	38.58	650	850	0.90
Hispanic	20,986	723.21	36.92	650	850	0.89
White	33,598	748.70	38.07	650	850	0.90
Hawaiian/Pacific Islander	167	727.69	39.37	650	850	0.90
Two or More Races	2,912	745.99	39.47	650	850	0.90
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	35,185	751.73	37.45	650	850	0.89
Economic Disadvantage	27,831	722.38	36.58	650	850	0.89
Female	30,671	742.95	40.21	650	850	0.91
Male	32,345	734.80	39.06	650	850	0.90
Language Proficiency NA	51,977	743.33	39.09	650	850	0.90
Language Proficiency NEP	2,511	687.42	24.01	650	800	0.73
Language Proficiency LEP	7,277	720.56	31.69	650	850	0.85
Language Proficiency FEP	1,251	758.06	30.96	650	850	0.83
Not Migrant	62,822	738.86	39.81	650	850	0.91
Migrant	194	709.68	33.98	650	800	0.86

*n-count less than 16

Table 11. ELA Grade 4 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	57,688	750.04	33.10	650	850	0.88
IEP	7,101	706.74	29.94	650	850	0.86
No Accommodation	57,854	749.34	33.80	650	850	0.89
Accommodation	6,935	711.55	30.59	650	850	0.87
Am. Indian/Alaska Native	423	728.53	35.64	650	841	0.89
Asian	2,015	756.06	37.32	650	850	0.90
Black	3,008	730.81	33.43	650	850	0.88
Hispanic	21,956	732.04	32.78	650	850	0.88
White	34,198	754.21	34.06	650	850	0.88
Hawaiian/Pacific Islander	184	742.94	35.49	672	850	0.89
Two or More Races	2,997	750.53	34.54	650	850	0.89
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	36,123	756.81	33.44	650	850	0.88
Economic Disadvantage	28,666	730.78	32.45	650	850	0.88
Female	31,452	750.55	35.63	650	850	0.89
Male	33,337	740.34	34.55	650	850	0.89
Language Proficiency NA	52,781	749.42	34.77	650	850	0.89
Language Proficiency NEP	1,899	697.60	24.18	650	804	0.75
Language Proficiency LEP	7,229	722.21	26.07	650	825	0.81
Language Proficiency FEP	2,880	759.15	26.13	650	850	0.80
Not Migrant	64,583	745.39	35.43	650	850	0.90
Migrant	206	714.93	28.69	650	782	0.83

*n-count less than 16

Table 12. ELA Grade 5 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	58,238	750.31	31.74	650	850	0.84
IEP	7,121	708.35	29.59	650	848	0.82
No Accommodation	58,374	749.62	32.34	650	850	0.85
Accommodation	6,985	713.28	31.22	650	850	0.84
Am. Indian/Alaska Native	447	731.75	31.78	650	812	0.84
Asian	2,014	758.57	34.52	650	850	0.86
Black	3,000	732.28	32.65	650	848	0.84
Hispanic	22,802	733.17	32.15	650	850	0.84
White	33,984	754.37	32.48	650	850	0.85
Hawaiian/Pacific Islander	169	740.40	33.81	650	827	0.84
Two or More Races	2,938	750.74	33.32	650	850	0.85
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	36,285	756.72	31.95	650	850	0.84
Economic Disadvantage	29,074	732.03	31.70	650	850	0.84
Female	31,858	751.40	33.56	650	850	0.86
Male	33,501	740.36	33.77	650	850	0.86
Language Proficiency NA	52,230	749.89	33.39	650	850	0.85
Language Proficiency NEP	1,174	698.19	25.69	650	818	0.73
Language Proficiency LEP	6,916	717.66	25.94	650	830	0.75
Language Proficiency FEP	5,039	752.30	25.31	650	850	0.77
Not Migrant	65,162	745.81	34.11	650	850	0.86
Migrant	197	721.20	27.67	650	782	0.78

*n-count less than 16

Table 13. ELA Grade 6 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	56,968	746.96	31.58	650	850	0.90
IEP	6,679	706.47	26.98	650	835	0.85
No Accommodation	57,658	746.00	32.23	650	850	0.90
Accommodation	5,989	711.05	28.84	650	829	0.87
Am. Indian/Alaska Native	468	727.06	32.04	650	833	0.90
Asian	1,996	756.13	33.47	650	850	0.90
Black	2,835	728.10	32.16	650	836	0.90
Hispanic	21,845	729.88	30.61	650	850	0.89
White	33,677	751.28	32.24	650	850	0.90
Hawaiian/Pacific Islander	154	741.38	32.09	672	812	0.91
Two or More Races	2,662	748.08	33.50	650	850	0.91
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	35,972	753.62	31.77	650	850	0.89
Economic Disadvantage	27,675	728.53	30.25	650	846	0.89
Female	30,961	749.18	32.68	650	850	0.90
Male	32,686	736.58	33.14	650	850	0.91
Language Proficiency NA	50,894	746.59	33.16	650	850	0.90
Language Proficiency NEP	1,088	697.97	23.65	650	805	0.76
Language Proficiency LEP	5,509	713.90	23.86	650	810	0.80
Language Proficiency FEP	6,156	744.31	26.28	650	850	0.86
Not Migrant	63,465	742.78	33.50	650	850	0.91
Migrant	182	717.80	27.20	650	807	0.85

*n-count less than 16

Table 14. ELA Grade 7 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	54,735	749.16	37.43	650	850	0.89
IEP	6,172	700.36	31.53	650	850	0.83
No Accommodation	55,310	747.89	38.21	650	850	0.89
Accommodation	5,597	707.89	35.73	650	850	0.87
Am. Indian/Alaska Native	449	731.12	37.09	650	833	0.88
Asian	2,068	763.35	38.89	650	850	0.89
Black	2,781	729.96	38.02	650	850	0.88
Hispanic	21,442	729.95	37.62	650	850	0.88
White	31,481	753.63	37.80	650	850	0.89
Hawaiian/Pacific Islander	167	731.88	40.21	650	826	0.89
Two or More Races	2,510	751.24	39.55	650	850	0.89
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	34,885	755.98	37.45	650	850	0.88
Economic Disadvantage	26,022	728.45	37.09	650	850	0.87
Female	29,623	753.87	37.93	650	850	0.89
Male	31,284	735.07	39.17	650	850	0.90
Language Proficiency NA	48,785	748.76	39.00	650	850	0.89
Language Proficiency NEP	1,310	689.81	28.51	650	810	0.76
Language Proficiency LEP	4,954	710.80	29.74	650	835	0.77
Language Proficiency FEP	5,858	746.82	31.74	650	850	0.84
Not Migrant	60,736	744.30	39.68	650	850	0.90
Migrant	171	715.02	37.94	650	806	0.87

*n-count less than 16

Table 15. ELA Grade 8 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	53,021	747.42	37.98	650	850	0.88
IEP	5,663	701.26	29.99	650	841	0.81
No Accommodation	53,767	746.12	38.64	650	850	0.88
Accommodation	4,917	708.46	34.42	650	848	0.85
Am. Indian/Alaska Native	440	725.24	35.65	650	829	0.87
Asian	1,977	762.18	40.51	650	850	0.89
Black	2,619	728.92	38.47	650	850	0.88
Hispanic	20,460	729.32	36.94	650	850	0.87
White	30,826	751.87	38.45	650	850	0.88
Hawaiian/Pacific Islander	153	735.69	40.58	650	849	0.89
Two or More Races	2,204	748.64	38.91	650	850	0.88
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	34,320	754.20	38.21	650	850	0.88
Economic Disadvantage	24,364	727.14	36.21	650	850	0.86
Female	28,368	753.19	38.23	650	850	0.88
Male	30,316	733.40	38.65	650	850	0.89
Language Proficiency NA	48,455	747.61	39.16	650	850	0.88
Language Proficiency NEP	1,253	689.27	27.08	650	816	0.70
Language Proficiency LEP	4,602	710.31	27.67	650	816	0.73
Language Proficiency FEP	4,374	741.23	30.79	650	850	0.82
Not Migrant	58,510	743.06	39.68	650	850	0.89
Migrant	174	711.72	34.50	650	805	0.83

*n-count less than 16

Table 16. CSLA Grade 3 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	1,475	737.98	24.44	650	850	0.87
IEP	159	716.16	22.30	650	783	0.83
No Accommodation	1,403	738.22	24.28	650	850	0.87
Accommodation	231	721.52	25.12	650	834	0.87
Am. Indian/Alaska Native*	n/a	n/a	n/a	n/a	n/a	n/a
Asian						
Black						
Hispanic	1,618	735.73	25.01	650	850	0.88
White*	n/a	n/a	n/a	n/a	n/a	n/a
Hawaiian/Pacific Islander						
Two or More Races						
Missing						
No Economic Disadvantage	121	738.98	28.70	678	818	0.91
Economic Disadvantage	1,513	735.61	24.76	650	850	0.87
Female	841	739.58	25.00	650	850	0.88
Male	793	731.90	24.57	650	834	0.88
Language Proficiency NA						
Language Proficiency NEP	628	724.12	22.36	650	779	0.85
Language Proficiency LEP	1,006	743.18	23.88	667	850	0.87
Language Proficiency FEP						
Not Migrant	1,629	735.83	25.08	650	850	0.88
Migrant*	n/a	n/a	n/a	n/a	n/a	n/a

*n-count less than 16

Table 17. CSLA Grade 4 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	957	731.50	22.22	658	812	0.85
IEP	97	704.77	19.42	658	759	0.78
No Accommodation	927	730.76	23.11	658	812	0.86
Accommodation	127	716.46	20.59	658	765	0.81
Am. Indian/Alaska Native*	n/a	n/a	n/a	n/a	n/a	n/a
Asian						
Black						
Hispanic	1,047	729.04	23.31	658	812	0.86
White*	n/a	n/a	n/a	n/a	n/a	n/a
Hawaiian/Pacific Islander						
Two or More Races						
Missing						
No Economic Disadvantage	59	730.03	22.24	668	777	0.85
Economic Disadvantage	995	728.98	23.36	658	812	0.86
Female	542	733.76	22.79	658	812	0.85
Male	512	724.04	22.78	658	784	0.85
Language Proficiency NA*	n/a	n/a	n/a	n/a	n/a	n/a
Language Proficiency NEP	319	718.15	22.25	658	775	0.85
Language Proficiency LEP	735	733.77	22.12	668	812	0.85
Language Proficiency FEP						
Not Migrant	1,051	729.10	23.28	658	812	0.86
Migrant*	n/a	n/a	n/a	n/a	n/a	n/a

*n-count less than 16

Table 18. Standard Error of Measurement (SEM) for Subclaims and Writing Claim

Content Area	Grade	Subclaim 1	Subclaim 2	Subclaim 3	Subclaim 4	Subclaim 5	Writing Claim
MATH	3	1.87	1.75	1.19	1.70		
	4	2.02	1.34	1.56	1.18		
	5	2.00	1.48	1.64	1.08		
	6	1.92	1.50	1.30	1.60		
	7	1.93	1.36	1.67	1.30		
	8	1.94	1.53	1.04	1.64		
ELA	3	1.88	1.92	1.51	1.85	0.56	2.10
	4	2.01	2.17	1.48	2.33	0.64	2.75
	5	2.03	2.11	1.57	2.39	0.72	2.68
	6	2.14	2.28	1.46	2.83	0.75	3.46
	7	2.14	2.24	1.79	2.19	0.67	3.05
	8	2.31	2.57	1.61	2.19	0.65	3.23
CSLA	3	2.11	1.90	1.71	2.75	0.86	3.00
	4	2.18	2.13	1.46	3.06	1.11	3.38

Note: For mathematics, Subclaims 1, 2, 3, and 4 are Subclaims A, B, C, and D, respectively. For ELA and CSLA, Subclaims 1, 2, 3, 4, and 5 are RL, RI, RV, WE, and WKL, respectively. For ELA and CSLA, the subclaim 4 (WE) and Writing claim SEMs are based on weighted points.

Table 19. Accuracy and Consistency Estimates

Content Area	Grade	Accuracy	Consistency	PChance	Kappa
MATH	3	0.73	0.63	0.26	0.51
	4	0.75	0.66	0.25	0.54
	5	0.74	0.64	0.24	0.52
	6	0.74	0.65	0.24	0.53
	7	0.73	0.63	0.26	0.50
	8	0.68	0.58	0.24	0.45
ELA	3	0.73	0.63	0.26	0.51
	4	0.71	0.60	0.24	0.47
	5	0.70	0.60	0.28	0.44
	6	0.70	0.60	0.25	0.46
	7	0.67	0.56	0.22	0.43
	8	0.68	0.57	0.23	0.44
CSLA	3	0.74	0.64	0.29	0.49
	4	0.72	0.62	0.29	0.46

Table 20. Accuracy of Cut Scores

Content Area	Grade	Partially Met Expectations Cut	Approached Expectations Cut	Met Expectations Cut	Exceeded Expectations Cut
MATH	3	0.95	0.92	0.91	0.90
	4	0.95	0.91	0.91	0.97
	5	0.95	0.91	0.91	0.93
	6	0.94	0.91	0.92	0.95
	7	0.95	0.90	0.90	0.97
	8	0.92	0.88	0.90	0.97
ELA	3	0.94	0.91	0.90	0.96
	4	0.95	0.91	0.89	0.88
	5	0.95	0.91	0.88	0.93
	6	0.95	0.91	0.89	0.91
	7	0.94	0.91	0.88	0.81
	8	0.94	0.90	0.89	0.88
CSLA	3	0.95	0.90	0.91	0.95
	4	0.93	0.89	0.92	0.97

Table 21. Consistency of Cut Scores

Content Area	Grade	Partially Met Expectations Cut	Approached Expectations Cut	Met Expectations Cut	Exceeded Expectations Cut
MATH	3	0.93	0.88	0.87	0.89
	4	0.92	0.88	0.88	0.96
	5	0.92	0.87	0.87	0.92
	6	0.92	0.87	0.88	0.94
	7	0.93	0.85	0.85	0.96
	8	0.88	0.84	0.86	0.96
ELA	3	0.91	0.87	0.86	0.95
	4	0.93	0.87	0.85	0.86
	5	0.93	0.87	0.83	0.91
	6	0.93	0.87	0.84	0.89
	7	0.92	0.87	0.84	0.79
	8	0.91	0.86	0.84	0.85
CSLA	3	0.93	0.86	0.88	0.94
	4	0.91	0.85	0.89	0.96

Table 22. Mathematics Grade 3 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1	3	3,891	89.0	10.6	0.4
Item 4, Part A	2	5,582	87.0	12.8	0.2
Item 4, Part B	2	5,540	81.3	18.3	0.4
Item 5, Part A	2	3,471	95.3	4.6	0.1
Item 7, Part B	3	5,343	89.8	9.6	0.6
Item 8, Part A	2	5,463	90.0	9.9	0.2
Item 8, Part C	2	5,262	88.8	9.7	1.5
Item 8, Part D	1	5,198	89.6	10.4	

Table 23. Mathematics Grade 4 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 4, Part A	2	5,718	96.4	2.9	0.7
Item 5, Part C	2	5,575	94.6	5.3	0.1
Item 6, Part B	3	5,882	91.0	6.8	2.2
Item 6, Part C	2	5,743	87.1	12.5	0.4
Item 8, Part B	2	5,588	92.8	7.0	0.2
Item 10, Part A	2	5,810	92.0	7.8	0.2
Item 10, Part B	2	5,730	98.4	1.4	0.2

Table 24. Mathematics Grade 5 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1	4	5,646	76.2	22.1	1.7
Item 2	3	5,737	87.9	11.1	1.0
Item 5, Part B	2	5,685	90.1	9.7	0.2
Item 8, Part C	3	5,743	91.7	8.0	0.4
Item 10, Part A	1	5,831	94.6	5.4	
Item 10, Part B	1	5,749	89.7	10.3	
Item 10, Part C	2	5,620	91.7	8.3	0.0

Table 25. Mathematics Grade 6 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1	3	5,660	88.6	10.5	1.0
Item 2	4	5,532	78.8	18.8	2.4
Item 3	4	5,728	80.8	15.4	3.8
Item 4	3	5,782	76.3	21.0	2.7
Item 10, Part A	2	5,523	92.8	5.3	1.9
Item 10, Part B	4	5,521	88.0	10.6	1.4

Table 26. Mathematics Grade 7 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1	4	5,019	93.1	5.7	1.2
Item 2	3	4,317	83.8	15.4	0.8
Item 3	3	5,094	88.3	10.0	1.7
Item 4, Part A	3	5,253	81.1	17.5	1.4
Item 6, Part C	2	5,286	88.5	11.3	0.2
Item 6, Part D	2	5,229	82.8	16.8	0.4

Table 27. Mathematics Grade 8 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1	4	3,320	86.0	12.9	1.1
Item 2	3	3,514	91.3	8.1	0.6
Item 3	3	2,800	88.9	10.1	1.0
Item 5, Part A	3	3,789	93.3	6.6	0.1
Item 5, Part B	3	3,558	93.8	5.1	1.0
Item 11, Part A	2	4,009	93.1	6.6	0.2
Item 11, Part B	2	3,951	94.0	5.8	0.2

Table 28. ELA Grade 3 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	3	6,035	75.0	24.3	0.8	0.66	0.01	0.66
PCR 1 WKL	3	6,035	74.2	25.3	0.5	0.69	0.06	0.70
PCR 2 WE	3	7,670	74.6	24.9	0.5	0.81	0.04	0.81
PCR 2 WKL	3	7,670	71.6	28.0	0.5	0.80	0.10	0.81

Table 29. ELA Grade 4 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	3	6,170	70.4	29.1	0.4	0.77	0.02	0.77
PCR 1 WKL	3	6,170	75.1	24.6	0.3	0.79	0.05	0.79
PCR 2 WE	4	6,150	69.3	29.7	1.0	0.75	0.05	0.75
PCR 2 WKL	3	6,150	67.3	32.1	0.6	0.75	0.03	0.76

Table 30. ELA Grade 5 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	4	6,783	70.0	28.7	1.3	0.80	0.16	0.82
PCR 1 WKL	3	6,783	72.8	26.9	0.3	0.84	0.01	0.84
PCR 2 WE	3	6,025	68.0	29.5	2.5	0.75	0.00	0.75
PCR 2 WKL	3	6,025	65.3	32.3	2.4	0.74	0.02	0.74

Table 31. ELA Grade 6 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	4	6,789	75.0	24.5	0.5	0.93	0.05	0.93
PCR 1 WKL	3	6,789	77.6	22.2	0.2	0.91	0.01	0.91
PCR 2 WE	4	6,263	75.4	24.2	0.4	0.86	0.03	0.86
PCR 2 WKL	3	6,263	73.0	26.4	0.7	0.84	0.05	0.84

Table 32. ELA Grade 7 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	4	6,157	69.9	28.4	1.7	0.86	0.18	0.88
PCR 1 WKL	3	6,157	70.2	28.9	0.9	0.84	0.14	0.85
PCR 2 WE	4	6,008	75.9	23.9	0.2	0.88	0.01	0.88
PCR 2 WKL	3	6,008	74.6	25.3	0.1	0.86	0.08	0.87

Table 33. ELA Grade 8 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	4	6,083	74.4	24.7	0.9	0.90	0.04	0.90
PCR 1 WKL	3	6,083	76.3	23.1	0.6	0.88	0.02	0.88
PCR 2 WE	4	5,787	75.5	24.1	0.4	0.91	0.02	0.91
PCR 2 WKL	3	5,787	79.1	20.6	0.3	0.91	0.01	0.91

Table 34. CSLA Grade 3 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	3	164	87.2	12.8	0.0	0.92	0.02	0.92
PCR 1 WKL	3	164	90.2	9.8	0.0	0.95	0.04	0.95
PCR 2 WE	3	164	85.4	14.0	0.6	0.88	0.04	0.88
PCR 2 WKL	3	164	85.4	14.0	0.6	0.93	0.04	0.93

Table 35. CSLA Grade 4 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	3	110	90.0	9.1	0.9	0.91	0.11	0.92
PCR 1 WKL	3	110	92.7	4.5	2.7	0.93	0.01	0.93
PCR 2 WE	4	110	85.5	13.6	0.9	0.90	0.03	0.90
PCR 2 WKL	3	110	90.9	8.2	0.9	0.96	0.02	0.96

Table 36. Mathematics Grade 3 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1, Part C	4	2,882	90.8	8.5	0.7
Item 2, Part C	4	2,895	85.4	13.2	1.4
Item 3	3	2,798	90.0	9.4	0.6
Item 4, Part B	3	2,891	85.9	13.1	1.0
Item 5	3	2,913	88.2	10.6	1.1
Item 6	3	2,857	80.6	18.9	0.5
Item 7	4	2,854	88.5	10.6	0.9
Item 8	3	2,813	90.9	8.7	0.4
Item 9	3	2,879	84.2	14.8	1.0
Item 10, Part B	2	2,936	92.1	7.0	0.9
Item 11	4	2,757	88.1	11.2	0.7
Item 12	4	2,941	78.3	20.5	1.2
Item 13, Part B	2	2,926	93.2	6.4	0.4
Item 14	3	2,941	82.4	15.6	2.0
Item 15	3	2,928	84.4	14.2	1.5

Table 37. Mathematics Grade 4 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1, Part D	3	2,954	92.3	6.3	1.4
Item 2, Part D	3	2,905	88.7	9.9	1.4
Item 3, Part D	3	2,891	90.2	9.4	0.4
Item 4	3	2,874	95.6	4.1	0.2
Item 5	3	2,945	81.0	17.4	1.6
Item 6, Part B	2	2,839	94.8	5.1	0.2
Item 7	4	2,837	90.6	8.7	0.6
Item 8	3	2,905	81.1	17.3	1.6
Item 9	4	2,828	95.8	3.9	0.2
Item 10	3	2,920	88.6	10.6	0.9
Item 11, Part B	2	2,845	93.6	6.2	0.2
Item 12, Part B	3	2,806	93.7	5.9	0.4
Item 13	4	2,874	84.1	14.9	1.0
Item 14	4	2,896	90.3	8.3	1.4
Item 15	3	2,883	95.0	3.2	1.8
Item 16	3	2,872	96.0	3.9	0.1
Item 17, Part B	2	2,921	98.4	1.4	0.2
Item 18	3	2,890	93.3	6.3	0.4

Table 38. Mathematics Grade 5 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1, Part A	3	2,922	80.8	18.1	1.1
Item 1, Part B	3	2,817	85.8	12.7	1.5
Item 2, Part A	3	2,849	92.2	7.2	0.6
Item 2, Part B	3	2,676	93.2	6.4	0.4
Item 3, Part B	2	2,901	99.1	0.7	0.2
Item 3, Part C	3	2,874	88.8	9.9	1.3
Item 4, Part B	2	2,705	94.0	5.5	0.5
Item 5	3	2,795	84.3	14.5	1.3
Item 6, Part B	3	1,471	89.5	9.7	0.9
Item 7, Part B	2	2,871	91.3	8.4	0.3
Item 8	3	2,846	91.9	7.4	0.7
Item 9	3	2,820	90.8	8.2	1.0
Item 10	4	2,950	82.4	14.9	2.7
Item 11	3	2,932	72.8	21.3	5.9
Item 12	4	2,872	97.0	2.6	0.4
Item 13, Part B	3	2,953	80.3	17.6	2.1
Item 14	4	2,919	80.3	17.2	2.5
Item 15	4	2,936	71.1	24.7	4.2
Item 16	3	2,889	93.3	6.4	0.3
Item 17	3	2,932	78.5	20.8	0.6
Item 18, Part B	2	2,878	98.5	1.5	0.0
Item 19	3	2,901	84.1	14.8	1.1
Item 20, Part B	2	2,889	92.1	7.6	0.2
Item 21	3	2,836	92.7	6.9	0.3

Table 39. Mathematics Grade 6 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1, Part A	2	2,923	94.9	5.0	0.1
Item 1, Part B	4	2,851	99.2	0.8	0.0
Item 2, Part A	3	2,875	94.6	4.9	0.5
Item 2, Part B	3	2,786	90.0	8.9	1.1
Item 3, Part A	4	2,839	87.2	10.6	2.1
Item 3, Part B	2	2,778	93.6	6.4	0.1
Item 4	3	2,888	92.9	6.9	0.2
Item 5	4	2,931	88.2	11.2	0.6
Item 6	3	2,877	94.3	5.6	0.1
Item 7	3	2,938	83.1	16.6	0.2
Item 8	4	2,914	81.5	16.0	2.5
Item 9, Part B	2	2,835	94.7	5.0	0.2
Item 10	4	2,943	70.1	26.9	3.0
Item 11, Part B	3	2,899	82.0	16.4	1.6
Item 12	4	2,927	69.7	24.6	5.7
Item 13, Part B	2	2,898	92.6	6.9	0.5
Item 14	3	2,915	86.5	12.1	1.4
Item 15, Part B	2	2,847	97.7	2.2	0.1
Item 16	3	2,922	82.0	17.0	1.0
Item 17	3	2,900	94.3	4.8	0.9
Item 18	4	2,910	80.2	16.3	3.4
Item 19, Part B	2	2,935	86.4	13.3	0.3
Item 20	3	2,862	92.0	7.7	0.3

Table 40. Mathematics Grade 7 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1, Part B	5	2,923	78.0	19.6	2.4
Item 2, Part A	3	2,851	87.3	9.4	3.3
Item 2, Part B	3	2,790	91.4	7.3	1.3
Item 3, Part A	3	2,884	91.2	6.2	2.7
Item 3, Part B	3	2,788	92.1	6.9	1.0
Item 4	3	2,878	83.6	15.4	1.0
Item 5	4	2,806	90.4	8.1	1.5
Item 6	4	2,893	69.9	24.5	5.6
Item 7, Part B	2	2,855	96.6	3.4	0.0
Item 8	3	2,921	85.2	14.1	0.7
Item 9	4	2,887	71.2	24.0	4.8
Item 10	3	2,864	88.7	10.3	1.0
Item 11	4	2,842	78.1	18.9	3.0
Item 12, Part B	3	1,350	77.8	19.3	3.0
Item 13, Part B	3	2,837	87.0	12.7	0.3
Item 14	3	2,887	86.4	12.6	1.0
Item 15	3	2,909	90.0	9.2	0.8
Item 16	3	2,909	88.0	10.9	1.1
Item 17	3	2,879	84.4	14.3	1.3
Item 18	3	2,779	90.1	8.4	1.5
Item 19	3	2,883	89.1	9.9	1.0
Item 20	3	2,865	84.4	11.8	3.7
Item 21	3	2,880	91.0	7.8	1.3

Table 41. Mathematics Grade 8 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1, Part A	3	2,769	95.6	3.6	0.7
Item 1, Part B	3	2,727	94.6	4.5	0.9
Item 2, Part A	4	2,902	79.4	17.7	2.9
Item 2, Part B	2	2,867	84.7	15.1	0.2
Item 3, Part A	3	2,799	95.4	4.3	0.4
Item 3, Part B	3	2,722	92.6	5.5	1.9
Item 4	4	2,864	75.7	22.3	2.0
Item 5	4	2,850	86.8	11.7	1.5
Item 6	3	2,820	90.6	9.1	0.4
Item 7	3	2,788	95.3	4.1	0.7
Item 8	3	2,846	88.5	10.3	1.2
Item 9	3	2,803	93.6	6.0	0.4
Item 10, Part B	3	2,733	88.8	10.6	0.6
Item 11	3	2,851	95.4	4.6	0.0
Item 12	4	2,737	91.9	7.3	0.8
Item 13	4	2,868	85.6	12.8	1.6
Item 14	3	2,593	94.6	4.0	1.4
Item 15	3	2,755	98.4	1.5	0.1
Item 16	3	2,763	94.1	5.7	0.2
Item 17, Part B	2	2,735	94.4	5.6	0.0
Item 18	3	2,720	96.6	3.2	0.2
Item 19	3	2,784	96.9	2.9	0.2
Item 20	3	2,740	91.7	7.8	0.5

Table 42. ELA Grade 3 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	3	2,728	75.1	24.9	0.0	0.64	0.01	0.64
PCR 1 WKL	3	2,724	76.3	23.7	0.0	0.74	0.00	0.74
PCR 2 WE	3	2,837	75.7	24.1	0.2	0.61	0.01	0.61
PCR 2 WKL	3	2,835	77.0	23.0	0.0	0.73	0.01	0.73
PCR 3 WE	3	2,778	75.3	24.7	0.0	0.74	0.01	0.74
PCR 3 WKL	3	2,775	75.6	24.2	0.3	0.74	0.03	0.74
PCR 4 WE	3	2,736	79.1	20.4	0.4	0.67	0.01	0.68
PCR 4 WKL	3	2,736	75.9	24.1	0.0	0.76	0.01	0.76
PCR 5 WE	3	2,828	85.9	13.4	0.7	0.77	0.02	0.77
PCR 5 WKL	3	2,826	80.4	19.5	0.0	0.77	0.01	0.77
PCR 6 WE	3	2,975	91.7	8.1	0.2	0.81	0.02	0.81
PCR 6 WKL	3	2,960	78.5	21.5	0.0	0.73	0.02	0.73
PCR 7 WE	3	2,792	79.4	20.4	0.2	0.68	0.02	0.68
PCR 7 WKL	3	2,799	75.7	24.3	0.0	0.74	0.00	0.74
PCR 8 WE	3	2,724	81.6	18.3	0.1	0.75	0.00	0.75
PCR 8 WKL	3	2,722	75.8	24.2	0.0	0.71	0.01	0.71

Table 43. ELA Grade 4 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	3	2,933	76.0	23.3	0.7	0.83	0.00	0.83
PCR 1 WKL	3	2,935	75.4	22.5	2.0	0.80	0.00	0.80
PCR 2 WE	3	2,903	77.9	20.2	2.0	0.81	0.01	0.81
PCR 2 WKL	3	2,910	77.0	22.8	0.2	0.83	0.02	0.83
PCR 3 WE	4	2,975	75.8	24.2	0.0	0.76	0.05	0.76
PCR 3 WKL	3	2,970	77.4	22.6	0.0	0.82	0.11	0.83
PCR 4 WE	4	2,926	75.2	24.7	0.1	0.82	0.01	0.82
PCR 4 WKL	3	2,927	80.0	19.8	0.1	0.85	0.01	0.85
PCR 5 WE	3	2,797	78.0	21.2	0.8	0.84	0.02	0.84
PCR 5 WKL	3	2,799	77.2	22.8	0.0	0.82	0.03	0.82
PCR 6 WE	3	2,984	78.9	18.5	2.6	0.76	0.00	0.76
PCR 6 WKL	3	2,987	77.9	22.1	0.0	0.81	0.07	0.82
PCR 7 WE	4	2,867	73.7	26.1	0.1	0.75	0.00	0.75
PCR 7 WKL	3	2,859	81.3	18.7	0.0	0.88	0.02	0.88
PCR 8 WE	4	2,938	73.0	26.6	0.4	0.76	0.01	0.76
PCR 8 WKL	3	2,926	78.1	21.9	0.0	0.84	0.00	0.84

Table 44. ELA Grade 5 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	4	2,986	70.4	28.3	1.3	0.74	0.01	0.74
PCR 1 WKL	3	2,981	75.1	24.7	0.2	0.83	0.01	0.83
PCR 2 WE	4	2,914	72.8	26.4	0.8	0.79	0.02	0.79
PCR 2 WKL	3	2,916	76.6	23.2	0.2	0.86	0.01	0.86
PCR 3 WE	3	2,923	76.6	20.6	2.8	0.75	0.02	0.75
PCR 3 WKL	3	2,926	76.6	23.4	0.0	0.84	0.01	0.84
PCR 4 WE	3	2,951	76.7	22.1	1.3	0.77	0.02	0.77
PCR 4 WKL	3	2,953	75.8	24.1	0.1	0.83	0.00	0.83
PCR 5 WE	4	2,991	76.2	22.8	1.0	0.74	0.02	0.74
PCR 5 WKL	3	2,990	76.0	23.8	0.1	0.81	0.00	0.81
PCR 6 WE	4	2,988	73.3	26.3	0.4	0.76	0.01	0.76
PCR 6 WKL	3	2,984	76.2	23.4	0.4	0.80	0.01	0.80
PCR 7 WE	3	2,941	73.8	25.2	1.1	0.72	0.00	0.72
PCR 7 WKL	3	2,936	76.2	21.5	2.3	0.76	0.02	0.76
PCR 8 WE	3	2,971	77.3	20.9	1.7	0.75	0.00	0.75
PCR 8 WKL	3	2,975	76.1	23.9	0.0	0.81	0.01	0.81

Table 45. ELA Grade 6 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	4	2,942	70.4	28.2	1.4	0.83	0.01	0.83
PCR 1 WKL	3	2,924	76.9	23.1	0.0	0.84	0.02	0.84
PCR 2 WE	4	2,841	79.2	20.3	0.5	0.88	0.01	0.88
PCR 2 WKL	3	2,823	77.2	22.8	0.1	0.84	0.01	0.84
PCR 3 WE	4	2,969	72.7	26.5	0.8	0.78	0.04	0.78
PCR 3 WKL	3	2,983	75.3	24.1	0.6	0.83	0.01	0.83
PCR 4 WE	4	2,947	70.2	28.8	0.9	0.75	0.01	0.75
PCR 4 WKL	3	2,947	76.1	22.4	1.5	0.83	0.00	0.83
PCR 5 WE	4	2,892	75.9	23.4	0.7	0.75	0.02	0.75
PCR 5 WKL	3	2,881	75.5	24.5	0.0	0.84	0.02	0.84
PCR 6 WE	4	2,920	76.3	22.5	1.2	0.81	0.01	0.81
PCR 6 WKL	3	2,910	76.2	23.7	0.1	0.86	0.01	0.86
PCR 7 WE	4	2,966	75.7	23.5	0.9	0.80	0.01	0.80
PCR 7 WKL	3	2,969	75.4	22.8	1.8	0.81	0.00	0.81
PCR 8 WE	4	2,870	71.0	27.5	1.6	0.79	0.01	0.79
PCR 8 WKL	3	2,869	75.9	23.4	0.7	0.85	0.01	0.85

Table 46. ELA Grade 7 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	4	2,697	71.2	26.5	2.3	0.70	0.02	0.70
PCR 1 WKL	3	2,689	76.1	23.5	0.3	0.85	0.01	0.85
PCR 2 WE	4	2,898	70.7	26.5	2.9	0.76	0.05	0.76
PCR 2 WKL	3	2,880	75.2	24.8	0.0	0.84	0.01	0.84
PCR 3 WE	4	2,854	75.5	21.3	3.2	0.71	0.01	0.71
PCR 3 WKL	3	2,863	76.0	24.0	0.0	0.86	0.01	0.86
PCR 4 WE	4	2,870	70.8	26.0	3.2	0.75	0.00	0.75
PCR 4 WKL	3	2,868	75.1	24.8	0.0	0.87	0.01	0.87
PCR 5 WE	4	2,914	69.9	26.1	4.0	0.71	0.01	0.71
PCR 5 WKL	3	2,905	75.7	24.3	0.0	0.85	0.02	0.85
PCR 6 WE	4	2,764	70.5	26.7	2.8	0.77	0.01	0.77
PCR 6 WKL	3	2,761	75.6	24.4	0.0	0.85	0.01	0.85
PCR 7 WE	4	2,892	73.9	22.8	3.3	0.77	0.00	0.77
PCR 7 WKL	3	2,880	75.1	24.9	0.0	0.86	0.01	0.86
PCR 8 WE	4	2,792	71.3	26.3	2.3	0.77	0.02	0.77
PCR 8 WKL	3	2,797	77.7	22.3	0.0	0.86	0.01	0.86

Table 47. ELA Grade 8 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	4	2,780	70.1	29.6	0.3	0.89	0.00	0.89
PCR 1 WKL	3	2,786	78.1	21.8	0.1	0.90	0.02	0.90
PCR 2 WE	4	2,783	69.7	29.6	0.7	0.87	0.00	0.87
PCR 2 WKL	3	2,779	74.9	25.1	0.0	0.87	0.00	0.87
PCR 3 WE	4	2,781	69.8	30.1	0.1	0.88	0.00	0.88
PCR 3 WKL	3	2,785	76.3	23.7	0.0	0.89	0.00	0.89
PCR 4 WE	4	2,745	72.3	27.7	0.0	0.91	0.00	0.91
PCR 4 WKL	3	2,740	77.5	22.5	0.0	0.90	0.00	0.90
PCR 5 WE	4	2,849	71.5	27.8	0.7	0.87	0.01	0.87
PCR 5 WKL	3	2,831	75.6	24.4	0.0	0.87	0.00	0.87
PCR 6 WE	4	2,865	69.8	29.4	0.8	0.85	0.01	0.85
PCR 6 WKL	3	2,874	76.1	23.9	0.0	0.89	0.00	0.89
PCR 7 WE	4	2,745	72.2	27.7	0.1	0.88	0.01	0.88
PCR 7 WKL	3	2,752	76.0	23.7	0.3	0.89	0.00	0.89
PCR 8 WE	4	2,756	72.6	27.0	0.4	0.88	0.01	0.88
PCR 8 WKL	3	2,748	75.6	23.6	0.8	0.88	0.01	0.88

Table 48. CSLA Grade 3 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	3	41	87.8	12.2	0	0.91	0.09	0.91
PCR 1 WKL	3	41	97.6	2.4	0	0.99	0.02	0.99
PCR 2 WE	3	41	85.4	14.6	0	0.92	0.10	0.93
PCR 2 WKL	3	41	87.8	12.2	0	0.95	0.02	0.95
PCR 3 WE	3	42	88.1	11.9	0	0.92	0.14	0.94
PCR 3 WKL	3	42	88.1	11.9	0	0.95	0.06	0.96
PCR 4 WE	3	41	80.5	19.5	0	0.84	0.06	0.84
PCR 4 WKL	3	41	82.9	17.1	0	0.92	0.02	0.92

Table 49. CSLA Grade 4 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	3	55	89.1	10.9	0	0.97	0.00	0.97
PCR 1 WKL	3	55	90.9	9.1	0	0.97	0.02	0.97
PCR 2 WE	3	55	85.5	14.5	0	0.90	0.04	0.90
PCR 2 WKL	3	55	81.8	18.2	0	0.93	0.06	0.93

Table 50. Mathematics N-Count by Form

Form	Grade					
	3	4	5	6	7	8
Online	45,429	48,527	50,092	52,407	50,236	40,953
Spanish Online	1,139	859	318	199	213	180
Paper	6,645	5,540	5,037	5,521	4,953	4,444
Spanish Paper	266	98	69	8	13	10
Text-to-Speech	11,220	10,952	9,980	5,609	4,551	3,583
Assistive Technology	15	19	20	21	17	19
Total	64,714	65,995	65,516	63,765	59,983	49,189

Table 51. ELA and CSLA N-Count by Form

Content Area	Form	Grade					
		3	4	5	6	7	8
ELA	Online	55,985	58,660	60,042	59,111	57,080	54,975
	Paper	6,801	5,841	5,054	4,346	3,681	3,588
	Text-to-Speech	180	230	202	139	110	79
	Assistive Technology	50	58	61	51	36	42
Total		63,016	64,789	65,359	63,647	60,907	58,684
CSLA	Total	1,634	1,054				

Table 52. Mathematics Demographic Distributions

Subgroup	Grade					
	3	4	5	6	7	8
No IEP	57,693	58,758	58,395	57,070	53,817	43,634
IEP	7,021	7,237	7,121	6,695	6,166	5,555
No Accommodation	50,499	52,115	52,873	55,277	52,514	42,910
Accommodation	14,215	13,880	12,643	8,488	7,469	6,279
Am. Indian/Alaska Native	403	425	446	466	447	404
Asian	1,931	2,037	2,031	2,014	1,928	1,401
Black	3,044	3,018	3,006	2,844	2,784	2,457
Hispanic	22,632	23,122	22,922	21,934	21,479	19,078
White	33,623	34,208	34,000	33,684	30,721	23,875
Hawaiian/Pacific Islander	168	182	171	153	162	138
Two or More Races	2,909	2,995	2,935	2,660	2,453	1,831
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	27,467	27,745	27,189	25,777	24,267	21,449
Economic Disadvantage	37,247	38,250	38,327	37,988	35,716	27,740
Female	31,523	32,049	31,925	31,016	29,265	23,757
Male	33,191	33,946	33,591	32,749	30,718	25,432
Language Proficiency NA	51,964	52,769	52,228	50,882	47,767	39,298
Language Proficiency NEP	3,211	2,313	1,340	1,216	1,428	1,348
Language Proficiency LEP	8,289	8,033	6,909	5,514	4,951	4,558
Language Proficiency FEP	1,250	2,880	5,039	6,153	5,837	3,985
Not Migrant	64,516	65,785	65,316	63,582	59,811	49,017
Migrant	198	210	200	183	172	172

*n-count less than 16

Table 53. ELA Demographic Distributions

Subgroup	Grade					
	3	4	5	6	7	8
No IEP	56,170	57,688	58,238	56,968	54,735	53,021
IEP	6,846	7,101	7,121	6,679	6,172	5,663
No Accommodation	56,526	57,854	58,374	57,658	55,310	53,767
Accommodation	6,490	6,935	6,985	5,989	5,597	4,917
Am. Indian/Alaska Native	400	423	447	468	449	440
Asian	1,912	2,015	2,014	1,996	2,068	1,977
Black	3,036	3,008	3,000	2,835	2,781	2,619
Hispanic	20,986	21,956	22,802	21,845	21,442	20,460
White	33,598	34,198	33,984	33,677	31,481	30,826
Hawaiian/Pacific Islander	167	184	169	154	167	153
Two or More Races	2,912	2,997	2,938	2,662	2,510	2,204
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	37,039	38,078	38,307	37,953	36,660	36,033
Economic Disadvantage	25,977	26,711	27,052	25,694	24,247	22,651
Female	30,671	31,452	31,858	30,961	29,623	28,368
Male	32,345	33,337	33,501	32,686	31,284	30,316
Language Proficiency NA	51,977	52,781	52,230	50,894	48,785	48,455
Language Proficiency NEP	2,511	1,899	1,174	1,088	1,310	1,253
Language Proficiency LEP	7,277	7,229	6,916	5,509	4,954	4,602
Language Proficiency FEP	1,251	2,880	5,039	6,156	5,858	4,374
Not Migrant	62,822	64,583	65,162	63,465	60,736	58,510
Migrant	194	206	197	182	171	174

*n-count less than 16

Table 54. CSLA Demographic Distributions

Subgroup	Grade	
	3	4
No IEP	1,475	957
IEP	159	97
No Accommodation	1,403	927
Accommodation	231	127
Am. Indian/Alaska Native*	n/a	n/a
Asian		
Black		
Hispanic	1,618	1,047
White*	n/a	n/a
Hawaiian/Pacific Islander		
Two or More Races		
Missing		
No Economic Disadvantage	190	150
Economic Disadvantage	1,444	904
Female	841	542
Male	793	512
Language Proficiency NA		
Language Proficiency NEP	628	319
Language Proficiency LEP	1,006	735
Language Proficiency FEP		
Not Migrant	1,629	1,051
Migrant*	n/a	n/a

*n-count less than 16

Table 55. Mathematics Grade 3 Operational Item Parameter Estimates

Table 56. Mathematics Grade 4 Operational Item Parameter Estimates

Table 57. Mathematics Grade 5 Operational Item Parameter Estimates

Table 58. Mathematics Grade 6 Operational Item Parameter Estimates

Table 59. Mathematics Grade 7 Operational Item Parameter Estimates

Table 60. Mathematics Grade 8 Operational Item Parameter Estimates

Table 61. ELA Grade 3 Operational Item Parameter Estimates

Item	Item Type	Model	A	B	D1	D2	D3	D4	Misfit Flag
PCR 1 WE	CR	GPC	0.805	2.096	0	1.529	-0.260	-1.269	No
PCR 1 WKL	CR	GPC	0.835	1.843	0	1.677	-0.310	-1.367	No
PCR 2 WE	CR	GPC	1.009	2.233	0	1.637	-0.360	-1.277	No
PCR 2 WKL	CR	GPC	0.901	1.786	0	1.763	-0.295	-1.468	No
5	XI	GPC	0.587	-0.650	0	-0.218	0.218		No
6	XI	GPC	0.592	-0.565	0	0.759	-0.759		No
7	XI	GPC	0.712	-0.813	0	-1.054	1.054		Yes
8	XI	GPC	0.524	0.389	0	0.177	-0.177		No
9	XI	GPC	0.364	0.127	0	-2.778	2.778		Yes
10	XI	GPC	0.580	-0.082	0	0.453	-0.453		No
11	XI	GPC	0.527	0.067	0	-1.206	1.206		Yes
12	XI	GPC	0.667	0.453	0	0.262	-0.262		Yes
13	XI	GPC	0.429	0.226	0	0.509	-0.509		Yes
14	XI	GPC	0.400	0.660	0	-1.114	1.114		No
15	XI	GPC	0.314	0.472	0	-0.615	0.615		Yes
16	XI	GPC	0.399	-0.132	0	0.463	-0.463		No
17	XI	GPC	0.735	-1.103	0	-1.111	1.111		Yes
18	XI	GPC	0.644	-0.505	0	0.123	-0.123		No
19	XI	GPC	0.612	-1.311	0	-1.068	1.068		No
20	XI	GPC	0.491	-0.046	0	-0.345	0.345		No
21	XI	GPC	0.860	-0.162	0	0.742	-0.742		Yes
22	XI	GPC	0.553	0.610	0	-0.655	0.655		No
23	XI	GPC	0.543	-0.009	0	0.369	-0.369		No

Table 62. ELA Grade 4 Operational Item Parameter Estimates

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	Misfit Flag
PCR 1 WE	CR	GPC	0.726	1.253	0	1.364	-0.120	-1.244		No
PCR 1 WKL	CR	GPC	0.863	1.110	0	1.799	-0.287	-1.512		No
PCR 2 WE	CR	GPC	0.792	1.804	0	2.169	0.738	-1.343	-1.563	No
PCR 2 WKL	CR	GPC	0.798	1.184	0	1.782	0.080	-1.862		No
5	XI	GPC	0.292	0.893	0	-0.918	0.918			Yes
6	XI	GPC	0.400	0.360	0	0.049	-0.049			No
7	XI	GPC	0.312	2.348	0	1.527	-1.527			Yes
8	XI	GPC	0.794	0.010	0	-0.063	0.063			No
9	XI	GPC	0.364	0.983	0	-0.918	0.918			Yes
10	XI	GPC	0.272	0.180	0	-2.327	2.327			Yes
11	XI	GPC	0.367	1.895	0	-0.116	0.116			No
12	XI	GPC	0.598	-0.394	0	-0.539	0.539			Yes
13	XI	GPC	0.452	-0.019	0	1.149	-1.149			Yes
14	XI	GPC	0.857	-0.863	0	-1.002	1.002			Yes
15	XI	GPC	0.381	1.112	0	-1.836	1.836			Yes
16	XI	GPC	0.378	1.047	0	-2.972	2.972			Yes
17	XI	GPC	0.436	0.196	0	-2.552	2.552			Yes
18	XI	GPC	0.317	1.977	0	0.428	-0.428			Yes
19	XI	GPC	0.766	-0.238	0	0.038	-0.038			No
20	XI	GPC	0.422	-0.489	0	-0.517	0.517			Yes
21	XI	GPC	0.364	0.034	0	-0.893	0.893			No
22	XI	GPC	0.770	-0.814	0	0.506	-0.506			No
23	XI	GPC	0.454	-0.250	0	-1.263	1.263			Yes
24	XI	GPC	0.569	0.323	0	0.963	-0.963			No
25	XI	GPC	0.332	0.274	0	-0.444	0.444			Yes

Table 63. ELA Grade 5 Operational Item Parameter Estimates

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	Misfit Flag
PCR 1 WE	CR	GPC	0.773	2.574	0	1.953	0.486	-1.065	-1.374	No
PCR 1 WKL	CR	GPC	0.846	1.475	0	1.692	0.289	-1.981		No
PCR 2 WE	CR	GPC	0.778	0.976	0	1.298	0.021	-1.319		Yes
PCR 2 WKL	CR	GPC	0.798	0.941	0	1.295	0.011	-1.306		Yes
5	XI	GPC	0.217	0.417	0	-3.355	3.355			Yes
6	XI	GPC	0.222	0.120	0	-4.135	4.135			Yes
7	XI	GPC	0.408	0.002	0	-0.358	0.358			Yes
8	XI	GPC	0.223	1.584	0	-0.684	0.684			No
9	XI	GPC	0.374	-0.211	0	-0.858	0.858			Yes
10	XI	GPC	0.601	0.156	0	0.655	-0.655			Yes
11	XI	GPC	0.581	-0.738	0	-0.247	0.247			Yes
12	XI	GPC	0.475	0.378	0	-1.362	1.362			Yes
13	XI	GPC	0.438	0.057	0	1.927	-1.927			Yes
14	XI	GPC	0.242	1.930	0	-1.174	1.174			Yes
15	XI	GPC	0.274	1.935	0	1.131	-1.131			No
16	XI	GPC	0.197	0.427	0	-2.416	2.416			Yes
17	XI	GPC	0.359	-0.300	0	-2.581	2.581			Yes
18	XI	GPC	0.286	1.925	0	-1.450	1.450			Yes
19	XI	GPC	0.632	0.884	0	0.520	-0.520			Yes
20	XI	GPC	0.572	-0.025	0	0.387	-0.387			No
21	XI	GPC	0.419	0.783	0	0.655	-0.655			No
22	XI	GPC	0.399	1.975	0	1.200	-1.200			No
23	XI	GPC	0.231	1.541	0	0.674	-0.674			Yes
24	XI	GPC	0.257	-1.116	0	0.716	-0.716			Yes

Table 64. ELA Grade 6 Operational Item Parameter Estimates

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	Misfit Flag
PCR 1 WE	CR	GPC	0.614	1.066	0	0.751	0.868	-0.503	-1.115	No
PCR 1 WKL	CR	GPC	0.869	0.631	0	0.867	0.088	-0.955		No
PCR 2 WE	CR	GPC	0.700	1.571	0	1.859	0.877	-0.929	-1.808	No
PCR 2 WKL	CR	GPC	0.695	0.800	0	1.041	0.234	-1.275		No
5	XI	GPC	0.421	1.053	0	0.900	-0.900			No
6	XI	GPC	0.343	0.614	0	-0.561	0.561			Yes
7	XI	GPC	0.360	1.666	0	0.678	-0.678			No
8	XI	GPC	0.481	1.121	0	-0.425	0.425			Yes
9	XI	GPC	0.353	-0.754	0	-3.916	3.916			Yes
10	XI	GPC	0.355	0.169	0	-0.737	0.737			No
11	XI	GPC	0.455	-0.337	0	-1.090	1.090			No
12	XI	GPC	0.390	0.324	0	-0.330	0.330			No
13	XI	GPC	0.383	0.053	0	1.527	-1.527			No
14	XI	GPC	0.447	0.408	0	-0.541	0.541			Yes
15	XI	GPC	0.452	0.497	0	-0.061	0.061			Yes
16	XI	GPC	0.746	-0.005	0	-0.426	0.426			No
17	XI	GPC	0.645	-1.117	0	-1.459	1.459			Yes
18	XI	GPC	0.512	0.702	0	-0.416	0.416			No
19	XI	GPC	0.191	2.650	0	1.643	-1.643			Yes
20	XI	GPC	0.529	1.684	0	0.874	-0.874			No
21	XI	GPC	0.398	-0.496	0	-0.841	0.841			No
22	XI	GPC	0.181	1.566	0	-3.786	3.786			Yes
23	XI	GPC	0.485	0.771	0	0.310	-0.310			Yes
24	XI	GPC	0.373	0.947	0	-1.972	1.972			Yes
25	XI	GPC	0.498	1.125	0	0.483	-0.483			No
26	XI	GPC	0.475	0.565	0	-0.120	0.120			Yes

Table 65. ELA Grade 7 Operational Item Parameter Estimates

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	Misfit Flag
PCR 1 WE	CR	GPC	0.672	0.934	0	1.528	0.228	-0.511	-1.245	Yes
PCR 1 WKL	CR	GPC	0.784	0.433	0	1.051	-0.117	-0.934		Yes
PCR 2 WE	CR	GPC	0.908	1.326	0	1.701	0.505	-0.721	-1.485	Yes
PCR 2 WKL	CR	GPC	0.868	0.697	0	1.042	0.073	-1.115		Yes
5	XI	GPC	0.263	1.093	0	-1.197	1.197			No
6	XI	GPC	0.250	0.570	0	0.015	-0.015			No
7	XI	GPC	0.505	0.774	0	0.775	-0.775			No
8	XI	GPC	0.431	-0.359	0	-1.983	1.983			Yes
9	XI	GPC	0.343	0.161	0	-2.344	2.344			Yes
10	XI	GPC	0.286	-0.807	0	-5.055	5.055			Yes
11	XI	GPC	0.275	1.881	0	0.990	-0.990			Yes
12	XI	GPC	0.294	-0.395	0	-3.587	3.587			Yes
13	XI	GPC	0.445	-0.113	0	-0.724	0.724			No
14	XI	GPC	0.486	1.102	0	0.369	-0.369			No
15	XI	GPC	0.528	0.532	0	-0.562	0.562			No
16	XI	GPC	0.265	0.011	0	-1.390	1.390			Yes
17	XI	GPC	0.332	0.851	0	-0.096	0.096			No
18	XI	GPC	0.521	1.181	0	0.649	-0.649			No
19	XI	GPC	0.551	0.706	0	-0.253	0.253			No
20	XI	GPC	0.490	0.481	0	-0.279	0.279			Yes
21	XI	GPC	0.525	-0.380	0	-0.716	0.716			No
22	XI	GPC	0.398	-0.425	0	-1.954	1.954			Yes
23	XI	GPC	0.299	-0.816	0	-3.026	3.026			Yes
24	XI	GPC	0.223	0.647	0	-4.727	4.727			Yes
25	XI	GPC	0.270	1.825	0	-3.376	3.376			No
26	XI	GPC	0.495	1.129	0	0.696	-0.696			No

Table 66. ELA Grade 8 Operational Item Parameter Estimates

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	Misfit Flag
PCR 1 WE	CR	GPC	1.010	0.860	0	1.460	0.566	-0.514	-1.512	Yes
PCR 1 WKL	CR	GPC	1.097	0.259	0	0.974	0.097	-1.071		Yes
PCR 2 WE	CR	GPC	0.806	0.645	0	1.477	0.445	-0.591	-1.331	Yes
PCR 2 WKL	CR	GPC	0.996	0.136	0	0.987	-0.015	-0.972		Yes
5	XI	GPC	0.436	-0.153	0	0.001	-0.001			No
6	XI	GPC	0.289	1.434	0	0.639	-0.639			No
7	XI	GPC	0.235	1.073	0	-2.296	2.296			Yes
8	XI	GPC	0.400	0.743	0	1.042	-1.042			No
9	XI	GPC	0.294	0.739	0	-1.608	1.608			No
10	XI	GPC	0.395	0.009	0	-1.116	1.116			Yes
11	XI	GPC	0.267	0.732	0	-0.911	0.911			No
12	XI	GPC	0.364	-1.054	0	1.995	-1.995			No
13	XI	GPC	0.363	0.095	0	-2.173	2.173			Yes
14	XI	GPC	0.388	0.860	0	1.885	-1.885			No
15	XI	GPC	0.259	0.516	0	-4.380	4.380			Yes
16	XI	GPC	0.230	0.323	0	-2.226	2.226			Yes
17	XI	GPC	0.519	-0.711	0	-0.776	0.776			Yes
18	XI	GPC	0.222	1.559	0	-5.853	5.853			Yes
19	XI	GPC	0.511	-0.644	0	-2.298	2.298			Yes
20	XI	GPC	0.436	-0.884	0	-3.201	3.201			Yes
21	XI	GPC	0.287	1.012	0	-3.306	3.306			Yes
22	XI	GPC	0.203	0.726	0	-1.623	1.623			Yes
23	XI	GPC	0.285	0.536	0	-2.805	2.805			Yes
24	XI	GPC	0.269	0.158	0	-0.383	0.383			No
25	XI	GPC	0.300	-0.390	0	-0.705	0.705			No
26	XI	GPC	0.180	1.901	0	-4.487	4.487			Yes
27	XI	GPC	0.614	0.781	0	0.514	-0.514			No

Table 67. CSLA Grade 3 Operational Item Parameter Estimates

Item	Item Type	Model	B	D1	D2	D3	D4	Infit	Outfit
1	SR	RPCM	-0.712	0	1.412	-1.412		1.08	1.18
2	SR	RPCM	0.153	0	-0.770	0.770		1.11	1.13
3	SR	RPCM	-0.516	0	0.769	-0.769		0.97	0.98
4	SR	RPCM	0.351	0	1.061	-1.061		1.14	1.47
5	SR	RPCM	-0.364	0	0.384	-0.384		1.02	1.07
6	SR	RPCM	-0.105	0	0.327	-0.327		1.02	1.07
7	SR	RPCM	-0.285	0	0.906	-0.906		0.94	0.91
8	SR	RPCM	-0.193	0	1.003	-1.003		0.98	1.04
9	SR	RPCM	-0.061	0	0.791	-0.791		1.01	1.05
10	SR	RPCM	-0.818	0	-0.200	0.200		1.04	1.08
11	SR	RPCM	-0.587	0	0.692	-0.692		0.90	0.84
12	SR	RPCM	0.042	0	0.752	-0.752		1.05	1.15
13	SR	RPCM	0.323	0	0.119	-0.119		1.31	1.58
14	SR	RPCM	-0.101	0	-0.137	0.137		1.14	1.23
15	SR	RPCM	0.238	0	0.464	-0.464		1.14	1.30
16	SR	RPCM	0.499	0	0.527	-0.527		1.11	1.34
17	SR	RPCM	0.650	0	0.362	-0.362		1.13	1.35
18	SR	RPCM	0.171	0	-0.009	0.009		1.02	1.18
19	SR	RPCM	0.670	0	1.308	-1.308		1.06	1.59
PCR 1 WE	CR	RPCM	1.008	0	-1.280	-0.735	2.015	0.79	0.75
PCR 1 WKL	CR	RPCM	0.554	0	-1.639	-0.506	2.145	1.35	1.34
PCR 2 WE	CR	RPCM	0.758	0	-1.577	-1.152	2.728	0.73	0.71
PCR 2 WKL	CR	RPCM	-0.190	0	-0.831	0.681	0.151	0.97	0.96

Table 68. CSLA Grade 4 Operational Item Parameter Estimates

Item	Item Type	Model	B	D1	D2	D3	D4	D5	Infit	Outfit
1	SR	RPCM	-0.586	0	0.425	-0.425			0.94	0.94
2	SR	RPCM	-0.326	0	0.024	-0.024			0.98	0.99
3	SR	RPCM	-0.605	0	-0.039	0.039			0.96	0.95
4	SR	RPCM	-0.498	0	1.020	-1.020			0.95	0.98
5	SR	RPCM	0.525	0	0.276	-0.276			0.98	1.18
6	SR	RPCM	-0.537	0	-0.139	0.139			0.97	0.97
7	SR	RPCM	0.481	0	-0.119	0.119			1.20	1.45
8	SR	RPCM	0.364	0	0.569	-0.569			1.33	1.67
9	SR	RPCM	0.284	0	0.344	-0.344			0.95	1.08
10	SR	RPCM	0.368	0	0.667	-0.667			1.08	1.21
11	SR	RPCM	-1.283	0	0.788	-0.788			0.92	1.05
12	SR	RPCM	-1.007	0	0.315	-0.315			0.88	0.86
13	SR	RPCM	-0.871	0	0.448	-0.448			0.89	0.85
14	SR	RPCM	-0.924	0	0.234	-0.234			0.98	1.01
15	SR	RPCM	-0.214	0	-0.497	0.497			0.82	0.83
16	SR	RPCM	0.253	0	0.110	-0.110			1.07	1.16
17	SR	RPCM	0.118	0	0.041	-0.041			1.16	1.26
18	SR	RPCM	-0.698	0	0.470	-0.470			0.91	0.89
19	SR	RPCM	-0.427	0	-0.112	0.112			0.86	0.86
20	SR	RPCM	0.363	0	0.024	-0.024			1.08	1.22
21	SR	RPCM	-0.431	0	0.232	-0.232			1.02	1.06
PCR 1 WE	CR	RPCM	0.425	0	-1.550	-1.248	1.060	1.738	0.85	0.84
PCR 1 WKL	CR	RPCM	-0.384	0	0.693	-0.744	0.051		1.02	1.00
PCR 2 WE	CR	RPCM	0.691	0	-0.648	-0.483	1.131		1.01	0.93
PCR 2 WKL	CR	RPCM	-0.085	0	0.041	0.400	-0.441		0.97	0.90

Table 69. Mathematics Grade 3 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	677	1.05	677	1.05	695	332	0.51	7,755	11.98	740	684	1.06	32,969	50.95
651	22	0.03	699	1.08	696	359	0.55	8,114	12.54	741	668	1.03	33,637	51.98
652	79	0.12	778	1.20	697	346	0.53	8,460	13.07	742	745	1.15	34,382	53.13
653	34	0.05	812	1.25	698	381	0.59	8,841	13.66	743	675	1.04	35,057	54.17
654	53	0.08	865	1.34	699	388	0.60	9,229	14.26	744	712	1.10	35,769	55.27
655	34	0.05	899	1.39	700	392	0.61	9,621	14.87	745	743	1.15	36,512	56.42
656	63	0.10	962	1.49	701	384	0.59	10,005	15.46	746	717	1.11	37,229	57.53
657	61	0.09	1,023	1.58	702	411	0.64	10,416	16.10	747	714	1.10	37,943	58.63
658	54	0.08	1,077	1.66	703	437	0.68	10,853	16.77	748	731	1.13	38,674	59.76
659	64	0.10	1,141	1.76	704	442	0.68	11,295	17.45	749	733	1.13	39,407	60.89
660	69	0.11	1,210	1.87	705	442	0.68	11,737	18.14	750	710	1.10	40,117	61.99
661	86	0.13	1,296	2.00	706	415	0.64	12,152	18.78	751	710	1.10	40,827	63.09
662	88	0.14	1,384	2.14	707	471	0.73	12,623	19.51	752	690	1.07	41,517	64.15
663	64	0.10	1,448	2.24	708	440	0.68	13,063	20.19	753	679	1.05	42,196	65.20
664	94	0.15	1,542	2.38	709	462	0.71	13,525	20.90	754	694	1.07	42,890	66.28
665	98	0.15	1,640	2.53	710	513	0.79	14,038	21.69	755	691	1.07	43,581	67.34
666	93	0.14	1,733	2.68	711	517	0.80	14,555	22.49	756	687	1.06	44,268	68.41
667	77	0.12	1,810	2.80	712	524	0.81	15,079	23.30	757	612	0.95	44,880	69.35
668	93	0.14	1,903	2.94	713	519	0.80	15,598	24.10	758	653	1.01	45,533	70.36
669	119	0.18	2,022	3.12	714	540	0.83	16,138	24.94	759	629	0.97	46,162	71.33
670	105	0.16	2,127	3.29	715	549	0.85	16,687	25.79	760	640	0.99	46,802	72.32
671	145	0.22	2,272	3.51	716	554	0.86	17,241	26.64	761	640	0.99	47,442	73.31
672	112	0.17	2,384	3.68	717	558	0.86	17,799	27.50	762	606	0.94	48,048	74.25
673	163	0.25	2,547	3.94	718	578	0.89	18,377	28.40	763	605	0.93	48,653	75.18
674	139	0.21	2,686	4.15	719	566	0.87	18,943	29.27	764	589	0.91	49,242	76.09
675	156	0.24	2,842	4.39	720	599	0.93	19,542	30.20	765	555	0.86	49,797	76.95
676	152	0.23	2,994	4.63	721	601	0.93	20,143	31.13	766	521	0.81	50,318	77.75
677	136	0.21	3,130	4.84	722	600	0.93	20,743	32.05	767	522	0.81	50,840	78.56
678	174	0.27	3,304	5.11	723	598	0.92	21,341	32.98	768	506	0.78	51,346	79.34
679	185	0.29	3,489	5.39	724	677	1.05	22,018	34.02	769	535	0.83	51,881	80.17
680	181	0.28	3,670	5.67	725	648	1.00	22,666	35.02	770	471	0.73	52,352	80.90
681	189	0.29	3,859	5.96	726	659	1.02	23,325	36.04	771	490	0.76	52,842	81.65
682	221	0.34	4,080	6.30	727	649	1.00	23,974	37.05	772	502	0.78	53,344	82.43
683	192	0.30	4,272	6.60	728	673	1.04	24,647	38.09	773	489	0.76	53,833	83.19
684	210	0.32	4,482	6.93	729	666	1.03	25,313	39.12	774	435	0.67	54,268	83.86
685	270	0.42	4,752	7.34	730	662	1.02	25,975	40.14	775	462	0.71	54,730	84.57
686	230	0.36	4,982	7.70	731	696	1.08	26,671	41.21	776	417	0.64	55,147	85.22
687	261	0.40	5,243	8.10	732	674	1.04	27,345	42.26	777	407	0.63	55,554	85.85
688	271	0.42	5,514	8.52	733	664	1.03	28,009	43.28	778	401	0.62	55,955	86.47
689	284	0.44	5,798	8.96	734	699	1.08	28,708	44.36	779	373	0.58	56,328	87.04
690	286	0.44	6,084	9.40	735	693	1.07	29,401	45.43	780	389	0.60	56,717	87.64
691	322	0.50	6,406	9.90	736	706	1.09	30,107	46.52	781	348	0.54	57,065	88.18
692	323	0.50	6,729	10.40	737	719	1.11	30,826	47.63	782	348	0.54	57,413	88.72
693	350	0.54	7,079	10.94	738	689	1.06	31,515	48.70	783	314	0.49	57,727	89.20
694	344	0.53	7,423	11.47	739	770	1.19	32,285	49.89	784	284	0.44	58,011	89.64

Table 70. Mathematics Grade 3 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	337	0.52	58,348	90.16	830	44	0.07	64,175	99.17
786	314	0.49	58,662	90.65	831	20	0.03	64,195	99.20
787	264	0.41	58,926	91.06	832	37	0.06	64,232	99.26
788	265	0.41	59,191	91.47	833	18	0.03	64,250	99.28
789	266	0.41	59,457	91.88	834	19	0.03	64,269	99.31
790	221	0.34	59,678	92.22	835	36	0.06	64,305	99.37
791	249	0.38	59,927	92.60	836	32	0.05	64,337	99.42
792	228	0.35	60,155	92.96	837	20	0.03	64,357	99.45
793	229	0.35	60,384	93.31	838	15	0.02	64,372	99.47
794	228	0.35	60,612	93.66	839	8	0.01	64,380	99.48
795	232	0.36	60,844	94.02	840	18	0.03	64,398	99.51
796	190	0.29	61,034	94.31	841	13	0.02	64,411	99.53
797	183	0.28	61,217	94.60	842	21	0.03	64,432	99.56
798	211	0.33	61,428	94.92	843	8	0.01	64,440	99.58
799	164	0.25	61,592	95.18	844	15	0.02	64,455	99.60
800	160	0.25	61,752	95.42	845	10	0.02	64,465	99.62
801	170	0.26	61,922	95.69	846	18	0.03	64,483	99.64
802	153	0.24	62,075	95.92	847	7	0.01	64,490	99.65
803	132	0.20	62,207	96.13	848	4	0.01	64,494	99.66
804	137	0.21	62,344	96.34	849	13	0.02	64,507	99.68
805	135	0.21	62,479	96.55	850	207	0.32	64,714	100.00
806	110	0.17	62,589	96.72					
807	109	0.17	62,698	96.88					
808	123	0.19	62,821	97.07					
809	99	0.15	62,920	97.23					
810	99	0.15	63,019	97.38					
811	97	0.15	63,116	97.53					
812	87	0.13	63,203	97.67					
813	77	0.12	63,280	97.78					
814	88	0.14	63,368	97.92					
815	79	0.12	63,447	98.04					
816	65	0.10	63,512	98.14					
817	60	0.09	63,572	98.24					
818	69	0.11	63,641	98.34					
819	72	0.11	63,713	98.45					
820	59	0.09	63,772	98.54					
821	50	0.08	63,822	98.62					
822	52	0.08	63,874	98.70					
823	39	0.06	63,913	98.76					
824	49	0.08	63,962	98.84					
825	43	0.07	64,005	98.90					
826	37	0.06	64,042	98.96					
827	30	0.05	64,072	99.01					
828	29	0.04	64,101	99.05					
829	30	0.05	64,131	99.10					

Table 71. Mathematics Grade 4 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	569	0.86	569	0.86	696	383	0.58	8,632	13.08	741	687	1.04	38,029	57.62
651	5	0.01	574	0.87	697	465	0.70	9,097	13.78	742	744	1.13	38,773	58.75
652	41	0.06	615	0.93	698	518	0.78	9,615	14.57	743	715	1.08	39,488	59.83
653	4	0.01	619	0.94	699	548	0.83	10,163	15.40	744	683	1.03	40,171	60.87
654	1	0.00	620	0.94	700	508	0.77	10,671	16.17	745	684	1.04	40,855	61.91
656	8	0.01	628	0.95	701	519	0.79	11,190	16.96	746	669	1.01	41,524	62.92
657	5	0.01	633	0.96	702	515	0.78	11,705	17.74	747	701	1.06	42,225	63.98
658	7	0.01	640	0.97	703	557	0.84	12,262	18.58	748	721	1.09	42,946	65.07
659	33	0.05	673	1.02	704	603	0.91	12,865	19.49	749	707	1.07	43,653	66.15
660	13	0.02	686	1.04	705	524	0.79	13,389	20.29	750	669	1.01	44,322	67.16
661	38	0.06	724	1.10	706	550	0.83	13,939	21.12	751	710	1.08	45,032	68.24
662	71	0.11	795	1.20	707	646	0.98	14,585	22.10	752	679	1.03	45,711	69.26
663	82	0.12	877	1.33	708	608	0.92	15,193	23.02	753	619	0.94	46,330	70.20
664	148	0.22	1,025	1.55	709	621	0.94	15,814	23.96	754	643	0.97	46,973	71.18
665	82	0.12	1,107	1.68	710	612	0.93	16,426	24.89	755	666	1.01	47,639	72.19
666	209	0.32	1,316	1.99	711	626	0.95	17,052	25.84	756	670	1.02	48,309	73.20
667	101	0.15	1,417	2.15	712	647	0.98	17,699	26.82	757	680	1.03	48,989	74.23
668	104	0.16	1,521	2.30	713	587	0.89	18,286	27.71	758	583	0.88	49,572	75.11
669	70	0.11	1,591	2.41	714	643	0.97	18,929	28.68	759	623	0.94	50,195	76.06
670	56	0.08	1,647	2.50	715	687	1.04	19,616	29.72	760	611	0.93	50,806	76.98
671	35	0.05	1,682	2.55	716	694	1.05	20,310	30.78	761	582	0.88	51,388	77.87
672	120	0.18	1,802	2.73	717	633	0.96	20,943	31.73	762	612	0.93	52,000	78.79
673	95	0.14	1,897	2.87	718	607	0.92	21,550	32.65	763	582	0.88	52,582	79.68
674	151	0.23	2,048	3.10	719	644	0.98	22,194	33.63	764	599	0.91	53,181	80.58
675	176	0.27	2,224	3.37	720	718	1.09	22,912	34.72	765	572	0.87	53,753	81.45
676	229	0.35	2,453	3.72	721	707	1.07	23,619	35.79	766	576	0.87	54,329	82.32
677	221	0.33	2,674	4.05	722	707	1.07	24,326	36.86	767	544	0.82	54,873	83.15
678	242	0.37	2,916	4.42	723	679	1.03	25,005	37.89	768	530	0.80	55,403	83.95
679	188	0.28	3,104	4.70	724	672	1.02	25,677	38.91	769	525	0.80	55,928	84.75
680	181	0.27	3,285	4.98	725	726	1.10	26,403	40.01	770	511	0.77	56,439	85.52
681	223	0.34	3,508	5.32	726	739	1.12	27,142	41.13	771	450	0.68	56,889	86.20
682	261	0.40	3,769	5.71	727	722	1.09	27,864	42.22	772	468	0.71	57,357	86.91
683	242	0.37	4,011	6.08	728	726	1.10	28,590	43.32	773	437	0.66	57,794	87.57
684	304	0.46	4,315	6.54	729	697	1.06	29,287	44.38	774	434	0.66	58,228	88.23
685	272	0.41	4,587	6.95	730	713	1.08	30,000	45.46	775	409	0.62	58,637	88.85
686	297	0.45	4,884	7.40	731	688	1.04	30,688	46.50	776	403	0.61	59,040	89.46
687	333	0.50	5,217	7.91	732	772	1.17	31,460	47.67	777	385	0.58	59,425	90.04
688	314	0.48	5,531	8.38	733	744	1.13	32,204	48.80	778	402	0.61	59,827	90.65
689	335	0.51	5,866	8.89	734	781	1.18	32,985	49.98	779	354	0.54	60,181	91.19
690	358	0.54	6,224	9.43	735	731	1.11	33,716	51.09	780	332	0.50	60,513	91.69
691	363	0.55	6,587	9.98	736	741	1.12	34,457	52.21	781	339	0.51	60,852	92.21
692	401	0.61	6,988	10.59	737	721	1.09	35,178	53.30	782	319	0.48	61,171	92.69
693	424	0.64	7,412	11.23	738	724	1.10	35,902	54.40	783	322	0.49	61,493	93.18
694	440	0.67	7,852	11.90	739	714	1.08	36,616	55.48	784	312	0.47	61,805	93.65
695	397	0.60	8,249	12.50	740	726	1.10	37,342	56.58	785	283	0.43	62,088	94.08

Table 72. Mathematics Grade 4 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
786	289	0.44	62,377	94.52	831	3	0.00	65,886	99.83
787	260	0.39	62,637	94.91	832	19	0.03	65,905	99.86
788	244	0.37	62,881	95.28	834	5	0.01	65,910	99.87
789	213	0.32	63,094	95.60	835	12	0.02	65,922	99.89
790	206	0.31	63,300	95.92	836	3	0.00	65,925	99.89
791	206	0.31	63,506	96.23	838	8	0.01	65,933	99.91
792	172	0.26	63,678	96.49	839	4	0.01	65,937	99.91
793	174	0.26	63,852	96.75	840	2	0.00	65,939	99.92
794	159	0.24	64,011	96.99	841	1	0.00	65,940	99.92
795	174	0.26	64,185	97.26	842	5	0.01	65,945	99.92
796	131	0.20	64,316	97.46	843	8	0.01	65,953	99.94
797	127	0.19	64,443	97.65	844	1	0.00	65,954	99.94
798	125	0.19	64,568	97.84	845	1	0.00	65,955	99.94
799	108	0.16	64,676	98.00	847	6	0.01	65,961	99.95
800	117	0.18	64,793	98.18	848	3	0.00	65,964	99.95
801	106	0.16	64,899	98.34	850	31	0.05	65,995	100.00
802	92	0.14	64,991	98.48					
803	72	0.11	65,063	98.59					
804	86	0.13	65,149	98.72					
805	62	0.09	65,211	98.81					
806	66	0.10	65,277	98.91					
807	55	0.08	65,332	99.00					
808	44	0.07	65,376	99.06					
809	44	0.07	65,420	99.13					
810	49	0.07	65,469	99.20					
811	51	0.08	65,520	99.28					
812	33	0.05	65,553	99.33					
813	31	0.05	65,584	99.38					
814	35	0.05	65,619	99.43					
815	30	0.05	65,649	99.48					
816	27	0.04	65,676	99.52					
817	22	0.03	65,698	99.55					
818	27	0.04	65,725	99.59					
819	14	0.02	65,739	99.61					
820	18	0.03	65,757	99.64					
821	13	0.02	65,770	99.66					
822	17	0.03	65,787	99.68					
823	25	0.04	65,812	99.72					
824	13	0.02	65,825	99.74					
825	9	0.01	65,834	99.76					
826	18	0.03	65,852	99.78					
827	4	0.01	65,856	99.79					
828	8	0.01	65,864	99.80					
829	11	0.02	65,875	99.82					
830	8	0.01	65,883	99.83					

Table 73. Mathematics Grade 5 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	287	0.44	287	0.44	695	394	0.60	7,184	10.97	740	801	1.22	35,723	54.53
651	32	0.05	319	0.49	696	415	0.63	7,599	11.60	741	762	1.16	36,485	55.69
652	25	0.04	344	0.53	697	438	0.67	8,037	12.27	742	707	1.08	37,192	56.77
653	46	0.07	390	0.60	698	465	0.71	8,502	12.98	743	739	1.13	37,931	57.90
654	26	0.04	416	0.63	699	441	0.67	8,943	13.65	744	718	1.10	38,649	58.99
655	35	0.05	451	0.69	700	480	0.73	9,423	14.38	745	746	1.14	39,395	60.13
656	42	0.06	493	0.75	701	487	0.74	9,910	15.13	746	718	1.10	40,113	61.23
657	38	0.06	531	0.81	702	558	0.85	10,468	15.98	747	696	1.06	40,809	62.29
658	40	0.06	571	0.87	703	499	0.76	10,967	16.74	748	714	1.09	41,523	63.38
659	13	0.02	584	0.89	704	517	0.79	11,484	17.53	749	705	1.08	42,228	64.45
660	44	0.07	628	0.96	705	566	0.86	12,050	18.39	750	752	1.15	42,980	65.60
661	77	0.12	705	1.08	706	547	0.83	12,597	19.23	751	708	1.08	43,688	66.68
662	61	0.09	766	1.17	707	579	0.88	13,176	20.11	752	623	0.95	44,311	67.63
663	49	0.07	815	1.24	708	592	0.90	13,768	21.01	753	618	0.94	44,929	68.58
664	58	0.09	873	1.33	709	605	0.92	14,373	21.94	754	684	1.04	45,613	69.62
665	55	0.08	928	1.42	710	578	0.88	14,951	22.82	755	612	0.93	46,225	70.56
666	57	0.09	985	1.50	711	572	0.87	15,523	23.69	756	631	0.96	46,856	71.52
667	63	0.10	1,048	1.60	712	614	0.94	16,137	24.63	757	603	0.92	47,459	72.44
668	73	0.11	1,121	1.71	713	588	0.90	16,725	25.53	758	584	0.89	48,043	73.33
669	114	0.17	1,235	1.89	714	620	0.95	17,345	26.47	759	568	0.87	48,611	74.20
670	94	0.14	1,329	2.03	715	645	0.98	17,990	27.46	760	580	0.89	49,191	75.08
671	80	0.12	1,409	2.15	716	666	1.02	18,656	28.48	761	634	0.97	49,825	76.05
672	91	0.14	1,500	2.29	717	646	0.99	19,302	29.46	762	553	0.84	50,378	76.89
673	151	0.23	1,651	2.52	718	649	0.99	19,951	30.45	763	605	0.92	50,983	77.82
674	133	0.20	1,784	2.72	719	676	1.03	20,627	31.48	764	564	0.86	51,547	78.68
675	151	0.23	1,935	2.95	720	641	0.98	21,268	32.46	765	584	0.89	52,131	79.57
676	121	0.18	2,056	3.14	721	719	1.10	21,987	33.56	766	554	0.85	52,685	80.42
677	126	0.19	2,182	3.33	722	714	1.09	22,701	34.65	767	531	0.81	53,216	81.23
678	156	0.24	2,338	3.57	723	657	1.00	23,358	35.65	768	526	0.80	53,742	82.03
679	171	0.26	2,509	3.83	724	735	1.12	24,093	36.77	769	517	0.79	54,259	82.82
680	169	0.26	2,678	4.09	725	718	1.10	24,811	37.87	770	504	0.77	54,763	83.59
681	176	0.27	2,854	4.36	726	726	1.11	25,537	38.98	771	482	0.74	55,245	84.32
682	181	0.28	3,035	4.63	727	726	1.11	26,263	40.09	772	436	0.67	55,681	84.99
683	266	0.41	3,301	5.04	728	736	1.12	26,999	41.21	773	487	0.74	56,168	85.73
684	227	0.35	3,528	5.38	729	719	1.10	27,718	42.31	774	430	0.66	56,598	86.39
685	252	0.38	3,780	5.77	730	731	1.12	28,449	43.42	775	406	0.62	57,004	87.01
686	235	0.36	4,015	6.13	731	743	1.13	29,192	44.56	776	396	0.60	57,400	87.61
687	265	0.40	4,280	6.53	732	730	1.11	29,922	45.67	777	403	0.62	57,803	88.23
688	298	0.45	4,578	6.99	733	730	1.11	30,652	46.79	778	401	0.61	58,204	88.84
689	344	0.53	4,922	7.51	734	738	1.13	31,390	47.91	779	367	0.56	58,571	89.40
690	333	0.51	5,255	8.02	735	726	1.11	32,116	49.02	780	340	0.52	58,911	89.92
691	368	0.56	5,623	8.58	736	680	1.04	32,796	50.06	781	344	0.53	59,255	90.44
692	373	0.57	5,996	9.15	737	705	1.08	33,501	51.13	782	334	0.51	59,589	90.95
693	385	0.59	6,381	9.74	738	753	1.15	34,254	52.28	783	283	0.43	59,872	91.39
694	409	0.62	6,790	10.36	739	668	1.02	34,922	53.30	784	301	0.46	60,173	91.84

Table 74. Mathematics Grade 5 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	267	0.41	60,440	92.25	830	11	0.02	65,187	99.50
786	261	0.40	60,701	92.65	831	13	0.02	65,200	99.52
787	259	0.40	60,960	93.05	832	13	0.02	65,213	99.54
788	273	0.42	61,233	93.46	833	9	0.01	65,222	99.55
789	223	0.34	61,456	93.80	834	16	0.02	65,238	99.58
790	230	0.35	61,686	94.15	835	20	0.03	65,258	99.61
791	180	0.27	61,866	94.43	836	18	0.03	65,276	99.63
792	203	0.31	62,069	94.74	837	10	0.02	65,286	99.65
793	210	0.32	62,279	95.06	838	11	0.02	65,297	99.67
794	199	0.30	62,478	95.36	839	15	0.02	65,312	99.69
795	179	0.27	62,657	95.64	840	10	0.02	65,322	99.70
796	162	0.25	62,819	95.88	841	10	0.02	65,332	99.72
797	146	0.22	62,965	96.11	842	1	0.00	65,333	99.72
798	140	0.21	63,105	96.32	843	9	0.01	65,342	99.73
799	115	0.18	63,220	96.50	844	9	0.01	65,351	99.75
800	134	0.20	63,354	96.70	845	20	0.03	65,371	99.78
801	133	0.20	63,487	96.90	846	22	0.03	65,393	99.81
802	113	0.17	63,600	97.08	847	10	0.02	65,403	99.83
803	131	0.20	63,731	97.28	848	4	0.01	65,407	99.83
804	114	0.17	63,845	97.45	849	4	0.01	65,411	99.84
805	108	0.16	63,953	97.61	850	105	0.16	65,516	100.00
806	104	0.16	64,057	97.77					
807	82	0.13	64,139	97.90					
808	84	0.13	64,223	98.03					
809	94	0.14	64,317	98.17					
810	71	0.11	64,388	98.28					
811	79	0.12	64,467	98.40					
812	52	0.08	64,519	98.48					
813	73	0.11	64,592	98.59					
814	55	0.08	64,647	98.67					
815	40	0.06	64,687	98.73					
816	44	0.07	64,731	98.80					
817	51	0.08	64,782	98.88					
818	28	0.04	64,810	98.92					
819	39	0.06	64,849	98.98					
820	43	0.07	64,892	99.05					
821	33	0.05	64,925	99.10					
822	45	0.07	64,970	99.17					
823	28	0.04	64,998	99.21					
824	38	0.06	65,036	99.27					
825	35	0.05	65,071	99.32					
826	18	0.03	65,089	99.35					
827	34	0.05	65,123	99.40					
828	32	0.05	65,155	99.45					
829	21	0.03	65,176	99.48					

Table 75. Mathematics Grade 6 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	222	0.35	222	0.35	695	431	0.68	7,001	10.98	740	713	1.12	38,075	59.71
651	19	0.03	241	0.38	696	587	0.92	7,588	11.90	741	726	1.14	38,801	60.85
652	41	0.06	282	0.44	697	481	0.75	8,069	12.65	742	685	1.07	39,486	61.92
653	34	0.05	316	0.50	698	489	0.77	8,558	13.42	743	751	1.18	40,237	63.10
654	5	0.01	321	0.50	699	440	0.69	8,998	14.11	744	711	1.12	40,948	64.22
655	13	0.02	334	0.52	700	488	0.77	9,486	14.88	745	667	1.05	41,615	65.26
656	8	0.01	342	0.54	701	628	0.98	10,114	15.86	746	731	1.15	42,346	66.41
657	36	0.06	378	0.59	702	653	1.02	10,767	16.89	747	706	1.11	43,052	67.52
658	22	0.03	400	0.63	703	575	0.90	11,342	17.79	748	676	1.06	43,728	68.58
659	61	0.10	461	0.72	704	575	0.90	11,917	18.69	749	683	1.07	44,411	69.65
660	72	0.11	533	0.84	705	604	0.95	12,521	19.64	750	676	1.06	45,087	70.71
661	51	0.08	584	0.92	706	718	1.13	13,239	20.76	751	646	1.01	45,733	71.72
662	43	0.07	627	0.98	707	664	1.04	13,903	21.80	752	636	1.00	46,369	72.72
663	30	0.05	657	1.03	708	667	1.05	14,570	22.85	753	650	1.02	47,019	73.74
664	65	0.10	722	1.13	709	678	1.06	15,248	23.91	754	595	0.93	47,614	74.67
665	50	0.08	772	1.21	710	687	1.08	15,935	24.99	755	620	0.97	48,234	75.64
666	60	0.09	832	1.30	711	705	1.11	16,640	26.10	756	667	1.05	48,901	76.69
667	108	0.17	940	1.47	712	760	1.19	17,400	27.29	757	571	0.90	49,472	77.58
668	28	0.04	968	1.52	713	730	1.14	18,130	28.43	758	576	0.90	50,048	78.49
669	51	0.08	1,019	1.60	714	764	1.20	18,894	29.63	759	540	0.85	50,588	79.34
670	93	0.15	1,112	1.74	715	702	1.10	19,596	30.73	760	584	0.92	51,172	80.25
671	90	0.14	1,202	1.89	716	746	1.17	20,342	31.90	761	571	0.90	51,743	81.15
672	134	0.21	1,336	2.10	717	743	1.17	21,085	33.07	762	498	0.78	52,241	81.93
673	80	0.13	1,416	2.22	718	748	1.17	21,833	34.24	763	524	0.82	52,765	82.75
674	104	0.16	1,520	2.38	719	732	1.15	22,565	35.39	764	514	0.81	53,279	83.56
675	130	0.20	1,650	2.59	720	728	1.14	23,293	36.53	765	517	0.81	53,796	84.37
676	166	0.26	1,816	2.85	721	760	1.19	24,053	37.72	766	494	0.77	54,290	85.14
677	173	0.27	1,989	3.12	722	778	1.22	24,831	38.94	767	463	0.73	54,753	85.87
678	134	0.21	2,123	3.33	723	759	1.19	25,590	40.13	768	461	0.72	55,214	86.59
679	183	0.29	2,306	3.62	724	723	1.13	26,313	41.27	769	471	0.74	55,685	87.33
680	207	0.32	2,513	3.94	725	757	1.19	27,070	42.45	770	427	0.67	56,112	88.00
681	160	0.25	2,673	4.19	726	763	1.20	27,833	43.65	771	386	0.61	56,498	88.60
682	187	0.29	2,860	4.49	727	761	1.19	28,594	44.84	772	386	0.61	56,884	89.21
683	295	0.46	3,155	4.95	728	738	1.16	29,332	46.00	773	384	0.60	57,268	89.81
684	285	0.45	3,440	5.39	729	714	1.12	30,046	47.12	774	364	0.57	57,632	90.38
685	222	0.35	3,662	5.74	730	760	1.19	30,806	48.31	775	362	0.57	57,994	90.95
686	232	0.36	3,894	6.11	731	747	1.17	31,553	49.48	776	324	0.51	58,318	91.46
687	276	0.43	4,170	6.54	732	730	1.14	32,283	50.63	777	306	0.48	58,624	91.94
688	248	0.39	4,418	6.93	733	719	1.13	33,002	51.76	778	284	0.45	58,908	92.38
689	307	0.48	4,725	7.41	734	748	1.17	33,750	52.93	779	275	0.43	59,183	92.81
690	433	0.68	5,158	8.09	735	744	1.17	34,494	54.10	780	249	0.39	59,432	93.20
691	396	0.62	5,554	8.71	736	753	1.18	35,247	55.28	781	261	0.41	59,693	93.61
692	356	0.56	5,910	9.27	737	699	1.10	35,946	56.37	782	270	0.42	59,963	94.04
693	328	0.51	6,238	9.78	738	710	1.11	36,656	57.49	783	257	0.40	60,220	94.44
694	332	0.52	6,570	10.30	739	706	1.11	37,362	58.59	784	238	0.37	60,458	94.81

Table 76. Mathematics Grade 6 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	221	0.35	60,679	95.16	830	13	0.02	63,645	99.81
786	204	0.32	60,883	95.48	831	14	0.02	63,659	99.83
787	208	0.33	61,091	95.81	832	8	0.01	63,667	99.85
788	188	0.29	61,279	96.10	833	15	0.02	63,682	99.87
789	184	0.29	61,463	96.39	834	5	0.01	63,687	99.88
790	146	0.23	61,609	96.62	835	2	0.00	63,689	99.88
791	188	0.29	61,797	96.91	836	4	0.01	63,693	99.89
792	142	0.22	61,939	97.14	837	3	0.00	63,696	99.89
793	145	0.23	62,084	97.36	838	4	0.01	63,700	99.90
794	122	0.19	62,206	97.56	839	6	0.01	63,706	99.91
795	120	0.19	62,326	97.74	840	2	0.00	63,708	99.91
796	107	0.17	62,433	97.91	841	1	0.00	63,709	99.91
797	89	0.14	62,522	98.05	842	3	0.00	63,712	99.92
798	92	0.14	62,614	98.19	843	1	0.00	63,713	99.92
799	77	0.12	62,691	98.32	844	3	0.00	63,716	99.92
800	87	0.14	62,778	98.45	845	1	0.00	63,717	99.92
801	78	0.12	62,856	98.57	847	3	0.00	63,720	99.93
802	62	0.10	62,918	98.67	848	2	0.00	63,722	99.93
803	66	0.10	62,984	98.78	849	12	0.02	63,734	99.95
804	55	0.09	63,039	98.86	850	31	0.05	63,765	100.00
805	44	0.07	63,083	98.93					
806	60	0.09	63,143	99.02					
807	45	0.07	63,188	99.10					
808	54	0.08	63,242	99.18					
809	33	0.05	63,275	99.23					
810	36	0.06	63,311	99.29					
811	37	0.06	63,348	99.35					
812	32	0.05	63,380	99.40					
813	28	0.04	63,408	99.44					
814	24	0.04	63,432	99.48					
815	21	0.03	63,453	99.51					
816	16	0.03	63,469	99.54					
817	26	0.04	63,495	99.58					
818	18	0.03	63,513	99.60					
819	22	0.03	63,535	99.64					
820	13	0.02	63,548	99.66					
821	13	0.02	63,561	99.68					
822	17	0.03	63,578	99.71					
823	7	0.01	63,585	99.72					
824	15	0.02	63,600	99.74					
825	7	0.01	63,607	99.75					
826	8	0.01	63,615	99.76					
827	7	0.01	63,622	99.78					
828	2	0.00	63,624	99.78					
829	8	0.01	63,632	99.79					

Table 77. Mathematics Grade 7 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	511	0.85	511	0.85	701	425	0.71	8,166	13.61	746	776	1.29	40,455	67.44
651	57	0.10	568	0.95	702	373	0.62	8,539	14.24	747	780	1.30	41,235	68.74
655	62	0.10	630	1.05	703	485	0.81	9,024	15.04	748	716	1.19	41,951	69.94
656	9	0.02	639	1.07	704	478	0.80	9,502	15.84	749	751	1.25	42,702	71.19
657	19	0.03	658	1.10	705	477	0.80	9,979	16.64	750	705	1.18	43,407	72.37
661	25	0.04	683	1.14	706	456	0.76	10,435	17.40	751	665	1.11	44,072	73.47
662	8	0.01	691	1.15	707	535	0.89	10,970	18.29	752	685	1.14	44,757	74.62
663	21	0.04	712	1.19	708	538	0.90	11,508	19.19	753	708	1.18	45,465	75.80
664	24	0.04	736	1.23	709	555	0.93	12,063	20.11	754	659	1.10	46,124	76.90
665	32	0.05	768	1.28	710	600	1.00	12,663	21.11	755	641	1.07	46,765	77.96
666	42	0.07	810	1.35	711	612	1.02	13,275	22.13	756	652	1.09	47,417	79.05
667	81	0.14	891	1.49	712	569	0.95	13,844	23.08	757	626	1.04	48,043	80.09
668	161	0.27	1,052	1.75	713	661	1.10	14,505	24.18	758	611	1.02	48,654	81.11
669	1	0.00	1,053	1.76	714	600	1.00	15,105	25.18	759	598	1.00	49,252	82.11
670	59	0.10	1,112	1.85	715	646	1.08	15,751	26.26	760	590	0.98	49,842	83.09
671	212	0.35	1,324	2.21	716	642	1.07	16,393	27.33	761	572	0.95	50,414	84.05
672	39	0.07	1,363	2.27	717	641	1.07	17,034	28.40	762	539	0.90	50,953	84.95
673	31	0.05	1,394	2.32	718	678	1.13	17,712	29.53	763	492	0.82	51,445	85.77
674	135	0.23	1,529	2.55	719	703	1.17	18,415	30.70	764	461	0.77	51,906	86.53
675	68	0.11	1,597	2.66	720	734	1.22	19,149	31.92	765	446	0.74	52,352	87.28
676	52	0.09	1,649	2.75	721	757	1.26	19,906	33.19	766	448	0.75	52,800	88.02
677	109	0.18	1,758	2.93	722	761	1.27	20,667	34.45	767	433	0.72	53,233	88.75
678	86	0.14	1,844	3.07	723	751	1.25	21,418	35.71	768	428	0.71	53,661	89.46
679	157	0.26	2,001	3.34	724	757	1.26	22,175	36.97	769	419	0.70	54,080	90.16
680	157	0.26	2,158	3.60	725	782	1.30	22,957	38.27	770	372	0.62	54,452	90.78
681	240	0.40	2,398	4.00	726	805	1.34	23,762	39.61	771	381	0.64	54,833	91.41
682	115	0.19	2,513	4.19	727	861	1.44	24,623	41.05	772	342	0.57	55,175	91.98
683	212	0.35	2,725	4.54	728	834	1.39	25,457	42.44	773	333	0.56	55,508	92.54
684	133	0.22	2,858	4.76	729	810	1.35	26,267	43.79	774	338	0.56	55,846	93.10
685	198	0.33	3,056	5.09	730	867	1.45	27,134	45.24	775	297	0.50	56,143	93.60
686	143	0.24	3,199	5.33	731	810	1.35	27,944	46.59	776	284	0.47	56,427	94.07
687	283	0.47	3,482	5.80	732	805	1.34	28,749	47.93	777	254	0.42	56,681	94.50
688	234	0.39	3,716	6.20	733	911	1.52	29,660	49.45	778	255	0.43	56,936	94.92
689	308	0.51	4,024	6.71	734	830	1.38	30,490	50.83	779	246	0.41	57,182	95.33
690	219	0.37	4,243	7.07	735	914	1.52	31,404	52.35	780	217	0.36	57,399	95.69
691	331	0.55	4,574	7.63	736	866	1.44	32,270	53.80	781	231	0.39	57,630	96.08
692	237	0.40	4,811	8.02	737	827	1.38	33,097	55.18	782	194	0.32	57,824	96.40
693	281	0.47	5,092	8.49	738	895	1.49	33,992	56.67	783	165	0.28	57,989	96.68
694	366	0.61	5,458	9.10	739	782	1.30	34,774	57.97	784	169	0.28	58,158	96.96
695	328	0.55	5,786	9.65	740	831	1.39	35,605	59.36	785	158	0.26	58,316	97.22
696	378	0.63	6,164	10.28	741	813	1.36	36,418	60.71	786	138	0.23	58,454	97.45
697	382	0.64	6,546	10.91	742	843	1.41	37,261	62.12	787	109	0.18	58,563	97.63
698	417	0.70	6,963	11.61	743	790	1.32	38,051	63.44	788	134	0.22	58,697	97.86
699	393	0.66	7,356	12.26	744	830	1.38	38,881	64.82	789	124	0.21	58,821	98.06
700	385	0.64	7,741	12.91	745	798	1.33	39,679	66.15	790	101	0.17	58,922	98.23

Table 78. Mathematics Grade 7 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
791	85	0.14	59,007	98.37	838	1	0.00	59,961	99.96
792	74	0.12	59,081	98.50	839	1	0.00	59,962	99.96
793	89	0.15	59,170	98.64	843	1	0.00	59,963	99.97
794	62	0.10	59,232	98.75	845	2	0.00	59,965	99.97
795	75	0.13	59,307	98.87	850	18	0.03	59,983	100.00
796	58	0.10	59,365	98.97					
797	69	0.12	59,434	99.08					
798	50	0.08	59,484	99.17					
799	51	0.09	59,535	99.25					
800	42	0.07	59,577	99.32					
801	25	0.04	59,602	99.36					
802	32	0.05	59,634	99.42					
803	36	0.06	59,670	99.48					
804	28	0.05	59,698	99.52					
805	19	0.03	59,717	99.56					
806	24	0.04	59,741	99.60					
807	21	0.04	59,762	99.63					
808	23	0.04	59,785	99.67					
809	10	0.02	59,795	99.69					
810	17	0.03	59,812	99.71					
811	14	0.02	59,826	99.74					
812	18	0.03	59,844	99.77					
813	13	0.02	59,857	99.79					
814	12	0.02	59,869	99.81					
815	12	0.02	59,881	99.83					
816	8	0.01	59,889	99.84					
817	7	0.01	59,896	99.85					
818	6	0.01	59,902	99.86					
819	6	0.01	59,908	99.87					
820	5	0.01	59,913	99.88					
821	7	0.01	59,920	99.89					
822	3	0.01	59,923	99.90					
823	6	0.01	59,929	99.91					
824	3	0.01	59,932	99.91					
825	2	0.00	59,934	99.92					
826	4	0.01	59,938	99.92					
827	1	0.00	59,939	99.93					
828	2	0.00	59,941	99.93					
829	3	0.01	59,944	99.93					
830	4	0.01	59,948	99.94					
831	1	0.00	59,949	99.94					
832	1	0.00	59,950	99.94					
833	6	0.01	59,956	99.95					
834	1	0.00	59,957	99.96					
836	3	0.01	59,960	99.96					

Table 79. Mathematics Grade 8 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	968	1.97	968	1.97	695	363	0.74	9,824	19.97	740	487	0.99	31,149	63.33
651	36	0.07	1,004	2.04	696	366	0.74	10,190	20.72	741	501	1.02	31,650	64.34
652	83	0.17	1,087	2.21	697	358	0.73	10,548	21.44	742	463	0.94	32,113	65.28
653	84	0.17	1,171	2.38	698	339	0.69	10,887	22.13	743	435	0.88	32,548	66.17
654	61	0.12	1,232	2.50	699	390	0.79	11,277	22.93	744	466	0.95	33,014	67.12
655	103	0.21	1,335	2.71	700	387	0.79	11,664	23.71	745	428	0.87	33,442	67.99
656	119	0.24	1,454	2.96	701	405	0.82	12,069	24.54	746	465	0.95	33,907	68.93
657	64	0.13	1,518	3.09	702	397	0.81	12,466	25.34	747	438	0.89	34,345	69.82
658	87	0.18	1,605	3.26	703	405	0.82	12,871	26.17	748	492	1.00	34,837	70.82
659	85	0.17	1,690	3.44	704	396	0.81	13,267	26.97	749	498	1.01	35,335	71.84
660	84	0.17	1,774	3.61	705	444	0.90	13,711	27.87	750	448	0.91	35,783	72.75
661	124	0.25	1,898	3.86	706	424	0.86	14,135	28.74	751	438	0.89	36,221	73.64
662	138	0.28	2,036	4.14	707	450	0.91	14,585	29.65	752	427	0.87	36,648	74.50
663	145	0.29	2,181	4.43	708	494	1.00	15,079	30.66	753	407	0.83	37,055	75.33
664	122	0.25	2,303	4.68	709	465	0.95	15,544	31.60	754	435	0.88	37,490	76.22
665	104	0.21	2,407	4.89	710	485	0.99	16,029	32.59	755	389	0.79	37,879	77.01
666	149	0.30	2,556	5.20	711	438	0.89	16,467	33.48	756	431	0.88	38,310	77.88
667	124	0.25	2,680	5.45	712	476	0.97	16,943	34.44	757	362	0.74	38,672	78.62
668	161	0.33	2,841	5.78	713	450	0.91	17,393	35.36	758	381	0.77	39,053	79.39
669	193	0.39	3,034	6.17	714	457	0.93	17,850	36.29	759	383	0.78	39,436	80.17
670	191	0.39	3,225	6.56	715	496	1.01	18,346	37.30	760	374	0.76	39,810	80.93
671	165	0.34	3,390	6.89	716	509	1.03	18,855	38.33	761	331	0.67	40,141	81.61
672	136	0.28	3,526	7.17	717	460	0.94	19,315	39.27	762	369	0.75	40,510	82.36
673	188	0.38	3,714	7.55	718	501	1.02	19,816	40.29	763	324	0.66	40,834	83.01
674	225	0.46	3,939	8.01	719	530	1.08	20,346	41.36	764	340	0.69	41,174	83.71
675	224	0.46	4,163	8.46	720	493	1.00	20,839	42.37	765	335	0.68	41,509	84.39
676	196	0.40	4,359	8.86	721	526	1.07	21,365	43.43	766	311	0.63	41,820	85.02
677	205	0.42	4,564	9.28	722	491	1.00	21,856	44.43	767	309	0.63	42,129	85.65
678	232	0.47	4,796	9.75	723	515	1.05	22,371	45.48	768	251	0.51	42,380	86.16
679	260	0.53	5,056	10.28	724	493	1.00	22,864	46.48	769	285	0.58	42,665	86.74
680	261	0.53	5,317	10.81	725	527	1.07	23,391	47.55	770	287	0.58	42,952	87.32
681	214	0.44	5,531	11.24	726	531	1.08	23,922	48.63	771	262	0.53	43,214	87.85
682	242	0.49	5,773	11.74	727	501	1.02	24,423	49.65	772	272	0.55	43,486	88.41
683	277	0.56	6,050	12.30	728	556	1.13	24,979	50.78	773	233	0.47	43,719	88.88
684	275	0.56	6,325	12.86	729	497	1.01	25,476	51.79	774	248	0.50	43,967	89.38
685	306	0.62	6,631	13.48	730	551	1.12	26,027	52.91	775	224	0.46	44,191	89.84
686	263	0.53	6,894	14.02	731	528	1.07	26,555	53.99	776	230	0.47	44,421	90.31
687	309	0.63	7,203	14.64	732	499	1.01	27,054	55.00	777	220	0.45	44,641	90.75
688	335	0.68	7,538	15.32	733	489	0.99	27,543	55.99	778	215	0.44	44,856	91.19
689	294	0.60	7,832	15.92	734	499	1.01	28,042	57.01	779	206	0.42	45,062	91.61
690	303	0.62	8,135	16.54	735	524	1.07	28,566	58.07	780	198	0.40	45,260	92.01
691	310	0.63	8,445	17.17	736	537	1.09	29,103	59.17	781	191	0.39	45,451	92.40
692	354	0.72	8,799	17.89	737	505	1.03	29,608	60.19	782	162	0.33	45,613	92.73
693	337	0.69	9,136	18.57	738	540	1.10	30,148	61.29	783	144	0.29	45,757	93.02
694	325	0.66	9,461	19.23	739	514	1.04	30,662	62.34	784	163	0.33	45,920	93.35

Table 80. Mathematics Grade 8 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	173	0.35	46,093	93.71	830	11	0.02	48,999	99.61
786	142	0.29	46,235	93.99	831	14	0.03	49,013	99.64
787	127	0.26	46,362	94.25	832	10	0.02	49,023	99.66
788	141	0.29	46,503	94.54	833	14	0.03	49,037	99.69
789	136	0.28	46,639	94.82	834	15	0.03	49,052	99.72
790	143	0.29	46,782	95.11	835	7	0.01	49,059	99.74
791	121	0.25	46,903	95.35	836	6	0.01	49,065	99.75
792	134	0.27	47,037	95.63	837	5	0.01	49,070	99.76
793	131	0.27	47,168	95.89	838	7	0.01	49,077	99.77
794	103	0.21	47,271	96.10	839	3	0.01	49,080	99.78
795	108	0.22	47,379	96.32	840	1	0.00	49,081	99.78
796	106	0.22	47,485	96.54	841	4	0.01	49,085	99.79
797	97	0.20	47,582	96.73	842	4	0.01	49,089	99.80
798	92	0.19	47,674	96.92	843	9	0.02	49,098	99.81
799	90	0.18	47,764	97.10	844	8	0.02	49,106	99.83
800	79	0.16	47,843	97.26	845	7	0.01	49,113	99.85
801	79	0.16	47,922	97.42	846	6	0.01	49,119	99.86
802	81	0.16	48,003	97.59	847	5	0.01	49,124	99.87
803	76	0.15	48,079	97.74	848	3	0.01	49,127	99.87
804	73	0.15	48,152	97.89	849	3	0.01	49,130	99.88
805	67	0.14	48,219	98.03	850	59	0.12	49,189	100.00
806	72	0.15	48,291	98.17					
807	41	0.08	48,332	98.26					
808	59	0.12	48,391	98.38					
809	65	0.13	48,456	98.51					
810	42	0.09	48,498	98.60					
811	49	0.10	48,547	98.69					
812	50	0.10	48,597	98.80					
813	26	0.05	48,623	98.85					
814	31	0.06	48,654	98.91					
815	39	0.08	48,693	98.99					
816	33	0.07	48,726	99.06					
817	29	0.06	48,755	99.12					
818	32	0.07	48,787	99.18					
819	26	0.05	48,813	99.24					
820	22	0.04	48,835	99.28					
821	21	0.04	48,856	99.32					
822	24	0.05	48,880	99.37					
823	22	0.04	48,902	99.42					
824	10	0.02	48,912	99.44					
825	14	0.03	48,926	99.47					
826	18	0.04	48,944	99.50					
827	16	0.03	48,960	99.53					
828	13	0.03	48,973	99.56					
829	15	0.03	48,988	99.59					

Table 81. ELA Grade 3 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	671	1.06	671	1.06	695	321	0.51	9,795	15.54	740	593	0.94	32,021	50.81
651	35	0.06	706	1.12	696	343	0.54	10,138	16.09	741	616	0.98	32,637	51.79
652	59	0.09	765	1.21	697	357	0.57	10,495	16.65	742	603	0.96	33,240	52.75
653	67	0.11	832	1.32	698	356	0.56	10,851	17.22	743	576	0.91	33,816	53.66
654	64	0.10	896	1.42	699	347	0.55	11,198	17.77	744	650	1.03	34,466	54.69
655	50	0.08	946	1.50	700	388	0.62	11,586	18.39	745	640	1.02	35,106	55.71
656	83	0.13	1,029	1.63	701	360	0.57	11,946	18.96	746	631	1.00	35,737	56.71
657	85	0.13	1,114	1.77	702	380	0.60	12,326	19.56	747	639	1.01	36,376	57.73
658	81	0.13	1,195	1.90	703	380	0.60	12,706	20.16	748	603	0.96	36,979	58.68
659	95	0.15	1,290	2.05	704	408	0.65	13,114	20.81	749	607	0.96	37,586	59.65
660	102	0.16	1,392	2.21	705	398	0.63	13,512	21.44	750	669	1.06	38,255	60.71
661	94	0.15	1,486	2.36	706	398	0.63	13,910	22.07	751	619	0.98	38,874	61.69
662	111	0.18	1,597	2.53	707	400	0.63	14,310	22.71	752	605	0.96	39,479	62.65
663	113	0.18	1,710	2.71	708	409	0.65	14,719	23.36	753	571	0.91	40,050	63.56
664	131	0.21	1,841	2.92	709	452	0.72	15,171	24.07	754	588	0.93	40,638	64.49
665	115	0.18	1,956	3.10	710	471	0.75	15,642	24.82	755	580	0.92	41,218	65.41
666	155	0.25	2,111	3.35	711	453	0.72	16,095	25.54	756	605	0.96	41,823	66.37
667	157	0.25	2,268	3.60	712	461	0.73	16,556	26.27	757	557	0.88	42,380	67.25
668	171	0.27	2,439	3.87	713	475	0.75	17,031	27.03	758	626	0.99	43,006	68.25
669	193	0.31	2,632	4.18	714	477	0.76	17,508	27.78	759	601	0.95	43,607	69.20
670	182	0.29	2,814	4.47	715	457	0.73	17,965	28.51	760	571	0.91	44,178	70.11
671	159	0.25	2,973	4.72	716	504	0.80	18,469	29.31	761	551	0.87	44,729	70.98
672	189	0.30	3,162	5.02	717	503	0.80	18,972	30.11	762	595	0.94	45,324	71.92
673	200	0.32	3,362	5.34	718	484	0.77	19,456	30.87	763	522	0.83	45,846	72.75
674	222	0.35	3,584	5.69	719	518	0.82	19,974	31.70	764	502	0.80	46,348	73.55
675	222	0.35	3,806	6.04	720	494	0.78	20,468	32.48	765	532	0.84	46,880	74.39
676	229	0.36	4,035	6.40	721	505	0.80	20,973	33.28	766	513	0.81	47,393	75.21
677	222	0.35	4,257	6.76	722	530	0.84	21,503	34.12	767	518	0.82	47,911	76.03
678	274	0.43	4,531	7.19	723	549	0.87	22,052	34.99	768	468	0.74	48,379	76.77
679	261	0.41	4,792	7.60	724	541	0.86	22,593	35.85	769	507	0.80	48,886	77.58
680	264	0.42	5,056	8.02	725	560	0.89	23,153	36.74	770	483	0.77	49,369	78.34
681	265	0.42	5,321	8.44	726	572	0.91	23,725	37.65	771	475	0.75	49,844	79.10
682	298	0.47	5,619	8.92	727	564	0.90	24,289	38.54	772	469	0.74	50,313	79.84
683	292	0.46	5,911	9.38	728	582	0.92	24,871	39.47	773	469	0.74	50,782	80.59
684	275	0.44	6,186	9.82	729	565	0.90	25,436	40.36	774	451	0.72	51,233	81.30
685	306	0.49	6,492	10.30	730	577	0.92	26,013	41.28	775	452	0.72	51,685	82.02
686	297	0.47	6,789	10.77	731	580	0.92	26,593	42.20	776	452	0.72	52,137	82.74
687	317	0.50	7,106	11.28	732	619	0.98	27,212	43.18	777	396	0.63	52,533	83.36
688	349	0.55	7,455	11.83	733	620	0.98	27,832	44.17	778	394	0.63	52,927	83.99
689	321	0.51	7,776	12.34	734	571	0.91	28,403	45.07	779	371	0.59	53,298	84.58
690	339	0.54	8,115	12.88	735	623	0.99	29,026	46.06	780	396	0.63	53,694	85.21
691	322	0.51	8,437	13.39	736	608	0.96	29,634	47.03	781	381	0.60	54,075	85.81
692	352	0.56	8,789	13.95	737	613	0.97	30,247	48.00	782	367	0.58	54,442	86.39
693	357	0.57	9,146	14.51	738	595	0.94	30,842	48.94	783	344	0.55	54,786	86.94
694	328	0.52	9,474	15.03	739	586	0.93	31,428	49.87	784	354	0.56	55,140	87.50

Table 82. ELA Grade 3 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	352	0.56	55,492	88.06	830	41	0.07	62,303	98.87
786	308	0.49	55,800	88.55	831	42	0.07	62,345	98.94
787	300	0.48	56,100	89.03	832	44	0.07	62,389	99.01
788	299	0.47	56,399	89.50	833	30	0.05	62,419	99.05
789	301	0.48	56,700	89.98	834	40	0.06	62,459	99.12
790	323	0.51	57,023	90.49	835	38	0.06	62,497	99.18
791	241	0.38	57,264	90.87	836	20	0.03	62,517	99.21
792	279	0.44	57,543	91.31	837	27	0.04	62,544	99.25
793	229	0.36	57,772	91.68	838	38	0.06	62,582	99.31
794	246	0.39	58,018	92.07	839	22	0.03	62,604	99.35
795	258	0.41	58,276	92.48	840	28	0.04	62,632	99.39
796	213	0.34	58,489	92.82	841	20	0.03	62,652	99.42
797	215	0.34	58,704	93.16	842	15	0.02	62,667	99.45
798	210	0.33	58,914	93.49	843	28	0.04	62,695	99.49
799	215	0.34	59,129	93.83	844	20	0.03	62,715	99.52
800	188	0.30	59,317	94.13	845	18	0.03	62,733	99.55
801	186	0.30	59,503	94.43	846	14	0.02	62,747	99.57
802	146	0.23	59,649	94.66	847	20	0.03	62,767	99.60
803	166	0.26	59,815	94.92	848	9	0.01	62,776	99.62
804	139	0.22	59,954	95.14	849	23	0.04	62,799	99.66
805	159	0.25	60,113	95.39	850	217	0.34	63,016	100.00
806	128	0.20	60,241	95.60					
807	160	0.25	60,401	95.85					
808	144	0.23	60,545	96.08					
809	138	0.22	60,683	96.30					
810	113	0.18	60,796	96.48					
811	104	0.17	60,900	96.64					
812	159	0.25	61,059	96.89					
813	92	0.15	61,151	97.04					
814	83	0.13	61,234	97.17					
815	108	0.17	61,342	97.34					
816	75	0.12	61,417	97.46					
817	73	0.12	61,490	97.58					
818	68	0.11	61,558	97.69					
819	67	0.11	61,625	97.79					
820	81	0.13	61,706	97.92					
821	105	0.17	61,811	98.09					
822	54	0.09	61,865	98.17					
823	73	0.12	61,938	98.29					
824	65	0.10	62,003	98.39					
825	60	0.10	62,063	98.49					
826	57	0.09	62,120	98.58					
827	36	0.06	62,156	98.64					
828	39	0.06	62,195	98.70					
829	67	0.11	62,262	98.80					

Table 83. ELA Grade 4 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	254	0.39	254	0.39	695	296	0.46	5,616	8.67	740	713	1.10	28,411	43.85
651	16	0.02	270	0.42	696	278	0.43	5,894	9.10	741	726	1.12	29,137	44.97
652	7	0.01	277	0.43	697	314	0.48	6,208	9.58	742	711	1.10	29,848	46.07
653	14	0.02	291	0.45	698	353	0.54	6,561	10.13	743	734	1.13	30,582	47.20
654	10	0.02	301	0.46	699	314	0.48	6,875	10.61	744	732	1.13	31,314	48.33
655	19	0.03	320	0.49	700	324	0.50	7,199	11.11	745	753	1.16	32,067	49.49
656	30	0.05	350	0.54	701	352	0.54	7,551	11.65	746	702	1.08	32,769	50.58
657	40	0.06	390	0.60	702	334	0.52	7,885	12.17	747	733	1.13	33,502	51.71
658	43	0.07	433	0.67	703	364	0.56	8,249	12.73	748	703	1.09	34,205	52.79
659	31	0.05	464	0.72	704	416	0.64	8,665	13.37	749	736	1.14	34,941	53.93
660	39	0.06	503	0.78	705	356	0.55	9,021	13.92	750	729	1.13	35,670	55.06
661	45	0.07	548	0.85	706	418	0.65	9,439	14.57	751	721	1.11	36,391	56.17
662	23	0.04	571	0.88	707	385	0.59	9,824	15.16	752	770	1.19	37,161	57.36
663	24	0.04	595	0.92	708	425	0.66	10,249	15.82	753	748	1.15	37,909	58.51
664	35	0.05	630	0.97	709	394	0.61	10,643	16.43	754	754	1.16	38,663	59.68
665	50	0.08	680	1.05	710	406	0.63	11,049	17.05	755	762	1.18	39,425	60.85
666	60	0.09	740	1.14	711	457	0.71	11,506	17.76	756	700	1.08	40,125	61.93
667	77	0.12	817	1.26	712	475	0.73	11,981	18.49	757	722	1.11	40,847	63.05
668	75	0.12	892	1.38	713	469	0.72	12,450	19.22	758	722	1.11	41,569	64.16
669	63	0.10	955	1.47	714	450	0.69	12,900	19.91	759	718	1.11	42,287	65.27
670	83	0.13	1,038	1.60	715	494	0.76	13,394	20.67	760	715	1.10	43,002	66.37
671	65	0.10	1,103	1.70	716	492	0.76	13,886	21.43	761	716	1.11	43,718	67.48
672	74	0.11	1,177	1.82	717	499	0.77	14,385	22.20	762	701	1.08	44,419	68.56
673	78	0.12	1,255	1.94	718	497	0.77	14,882	22.97	763	659	1.02	45,078	69.58
674	112	0.17	1,367	2.11	719	496	0.77	15,378	23.74	764	665	1.03	45,743	70.60
675	116	0.18	1,483	2.29	720	535	0.83	15,913	24.56	765	665	1.03	46,408	71.63
676	139	0.21	1,622	2.50	721	470	0.73	16,383	25.29	766	633	0.98	47,041	72.61
677	127	0.20	1,749	2.70	722	513	0.79	16,896	26.08	767	632	0.98	47,673	73.58
678	115	0.18	1,864	2.88	723	533	0.82	17,429	26.90	768	591	0.91	48,264	74.49
679	115	0.18	1,979	3.05	724	604	0.93	18,033	27.83	769	597	0.92	48,861	75.42
680	142	0.22	2,121	3.27	725	606	0.94	18,639	28.77	770	570	0.88	49,431	76.30
681	141	0.22	2,262	3.49	726	599	0.92	19,238	29.69	771	573	0.88	50,004	77.18
682	172	0.27	2,434	3.76	727	619	0.96	19,857	30.65	772	546	0.84	50,550	78.02
683	171	0.26	2,605	4.02	728	611	0.94	20,468	31.59	773	539	0.83	51,089	78.85
684	185	0.29	2,790	4.31	729	621	0.96	21,089	32.55	774	604	0.93	51,693	79.79
685	207	0.32	2,997	4.63	730	615	0.95	21,704	33.50	775	490	0.76	52,183	80.54
686	235	0.36	3,232	4.99	731	620	0.96	22,324	34.46	776	523	0.81	52,706	81.35
687	229	0.35	3,461	5.34	732	657	1.01	22,981	35.47	777	479	0.74	53,185	82.09
688	216	0.33	3,677	5.68	733	680	1.05	23,661	36.52	778	478	0.74	53,663	82.83
689	234	0.36	3,911	6.04	734	624	0.96	24,285	37.48	779	495	0.76	54,158	83.59
690	251	0.39	4,162	6.42	735	639	0.99	24,924	38.47	780	445	0.69	54,603	84.28
691	288	0.44	4,450	6.87	736	671	1.04	25,595	39.51	781	404	0.62	55,007	84.90
692	236	0.36	4,686	7.23	737	678	1.05	26,273	40.55	782	455	0.70	55,462	85.60
693	275	0.42	4,961	7.66	738	735	1.13	27,008	41.69	783	452	0.70	55,914	86.30
694	359	0.55	5,320	8.21	739	690	1.06	27,698	42.75	784	403	0.62	56,317	86.92

Table 84. ELA Grade 4 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	368	0.57	56,685	87.49	830	41	0.06	64,215	99.11
786	363	0.56	57,048	88.05	831	30	0.05	64,245	99.16
787	348	0.54	57,396	88.59	832	32	0.05	64,277	99.21
788	336	0.52	57,732	89.11	833	41	0.06	64,318	99.27
789	299	0.46	58,031	89.57	834	30	0.05	64,348	99.32
790	295	0.46	58,326	90.02	835	35	0.05	64,383	99.37
791	309	0.48	58,635	90.50	836	31	0.05	64,414	99.42
792	312	0.48	58,947	90.98	837	20	0.03	64,434	99.45
793	284	0.44	59,231	91.42	838	29	0.04	64,463	99.50
794	293	0.45	59,524	91.87	839	25	0.04	64,488	99.54
795	273	0.42	59,797	92.29	840	14	0.02	64,502	99.56
796	273	0.42	60,070	92.72	841	20	0.03	64,522	99.59
797	256	0.40	60,326	93.11	842	11	0.02	64,533	99.60
798	205	0.32	60,531	93.43	843	30	0.05	64,563	99.65
799	227	0.35	60,758	93.78	844	18	0.03	64,581	99.68
800	221	0.34	60,979	94.12	845	10	0.02	64,591	99.69
801	190	0.29	61,169	94.41	846	11	0.02	64,602	99.71
802	184	0.28	61,353	94.70	847	19	0.03	64,621	99.74
803	185	0.29	61,538	94.98	848	12	0.02	64,633	99.76
804	180	0.28	61,718	95.26	849	13	0.02	64,646	99.78
805	172	0.27	61,890	95.53	850	143	0.22	64,789	100.00
806	152	0.23	62,042	95.76					
807	169	0.26	62,211	96.02					
808	142	0.22	62,353	96.24					
809	130	0.20	62,483	96.44					
810	133	0.21	62,616	96.65					
811	150	0.23	62,766	96.88					
812	122	0.19	62,888	97.07					
813	114	0.18	63,002	97.24					
814	101	0.16	63,103	97.40					
815	95	0.15	63,198	97.54					
816	105	0.16	63,303	97.71					
817	103	0.16	63,406	97.87					
818	95	0.15	63,501	98.01					
819	72	0.11	63,573	98.12					
820	70	0.11	63,643	98.23					
821	74	0.11	63,717	98.35					
822	55	0.08	63,772	98.43					
823	54	0.08	63,826	98.51					
824	55	0.08	63,881	98.60					
825	72	0.11	63,953	98.71					
826	80	0.12	64,033	98.83					
827	49	0.08	64,082	98.91					
828	51	0.08	64,133	98.99					
829	41	0.06	64,174	99.05					

Table 85. ELA Grade 5 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	240	0.37	240	0.37	695	278	0.43	5,284	8.08	740	787	1.20	27,505	42.08
651	16	0.02	256	0.39	696	252	0.39	5,536	8.47	741	753	1.15	28,258	43.24
652	21	0.03	277	0.42	697	283	0.43	5,819	8.90	742	700	1.07	28,958	44.31
653	26	0.04	303	0.46	698	332	0.51	6,151	9.41	743	770	1.18	29,728	45.48
654	21	0.03	324	0.50	699	297	0.45	6,448	9.87	744	779	1.19	30,507	46.68
655	32	0.05	356	0.54	700	307	0.47	6,755	10.34	745	813	1.24	31,320	47.92
656	26	0.04	382	0.58	701	298	0.46	7,053	10.79	746	723	1.11	32,043	49.03
657	25	0.04	407	0.62	702	346	0.53	7,399	11.32	747	787	1.20	32,830	50.23
658	35	0.05	442	0.68	703	336	0.51	7,735	11.83	748	803	1.23	33,633	51.46
659	32	0.05	474	0.73	704	323	0.49	8,058	12.33	749	761	1.16	34,394	52.62
660	36	0.06	510	0.78	705	379	0.58	8,437	12.91	750	735	1.12	35,129	53.75
661	45	0.07	555	0.85	706	339	0.52	8,776	13.43	751	800	1.22	35,929	54.97
662	50	0.08	605	0.93	707	396	0.61	9,172	14.03	752	765	1.17	36,694	56.14
663	31	0.05	636	0.97	708	374	0.57	9,546	14.61	753	793	1.21	37,487	57.36
664	54	0.08	690	1.06	709	347	0.53	9,893	15.14	754	792	1.21	38,279	58.57
665	38	0.06	728	1.11	710	418	0.64	10,311	15.78	755	813	1.24	39,092	59.81
666	60	0.09	788	1.21	711	396	0.61	10,707	16.38	756	820	1.25	39,912	61.07
667	65	0.10	853	1.31	712	399	0.61	11,106	16.99	757	810	1.24	40,722	62.31
668	59	0.09	912	1.40	713	410	0.63	11,516	17.62	758	773	1.18	41,495	63.49
669	72	0.11	984	1.51	714	454	0.69	11,970	18.31	759	800	1.22	42,295	64.71
670	75	0.11	1,059	1.62	715	455	0.70	12,425	19.01	760	752	1.15	43,047	65.86
671	76	0.12	1,135	1.74	716	462	0.71	12,887	19.72	761	763	1.17	43,810	67.03
672	89	0.14	1,224	1.87	717	465	0.71	13,352	20.43	762	722	1.10	44,532	68.13
673	72	0.11	1,296	1.98	718	483	0.74	13,835	21.17	763	739	1.13	45,271	69.27
674	89	0.14	1,385	2.12	719	488	0.75	14,323	21.91	764	711	1.09	45,982	70.35
675	113	0.17	1,498	2.29	720	494	0.76	14,817	22.67	765	676	1.03	46,658	71.39
676	134	0.21	1,632	2.50	721	479	0.73	15,296	23.40	766	696	1.06	47,354	72.45
677	126	0.19	1,758	2.69	722	544	0.83	15,840	24.24	767	666	1.02	48,020	73.47
678	136	0.21	1,894	2.90	723	537	0.82	16,377	25.06	768	645	0.99	48,665	74.46
679	120	0.18	2,014	3.08	724	598	0.91	16,975	25.97	769	660	1.01	49,325	75.47
680	127	0.19	2,141	3.28	725	559	0.86	17,534	26.83	770	692	1.06	50,017	76.53
681	148	0.23	2,289	3.50	726	581	0.89	18,115	27.72	771	646	0.99	50,663	77.51
682	174	0.27	2,463	3.77	727	611	0.93	18,726	28.65	772	613	0.94	51,276	78.45
683	167	0.26	2,630	4.02	728	644	0.99	19,370	29.64	773	579	0.89	51,855	79.34
684	174	0.27	2,804	4.29	729	617	0.94	19,987	30.58	774	567	0.87	52,422	80.21
685	174	0.27	2,978	4.56	730	665	1.02	20,652	31.60	775	560	0.86	52,982	81.06
686	218	0.33	3,196	4.89	731	645	0.99	21,297	32.58	776	595	0.91	53,577	81.97
687	200	0.31	3,396	5.20	732	652	1.00	21,949	33.58	777	536	0.82	54,113	82.79
688	213	0.33	3,609	5.52	733	643	0.98	22,592	34.57	778	500	0.77	54,613	83.56
689	204	0.31	3,813	5.83	734	732	1.12	23,324	35.69	779	519	0.79	55,132	84.35
690	213	0.33	4,026	6.16	735	675	1.03	23,999	36.72	780	496	0.76	55,628	85.11
691	215	0.33	4,241	6.49	736	686	1.05	24,685	37.77	781	447	0.68	56,075	85.80
692	248	0.38	4,489	6.87	737	653	1.00	25,338	38.77	782	458	0.70	56,533	86.50
693	261	0.40	4,750	7.27	738	662	1.01	26,000	39.78	783	442	0.68	56,975	87.17
694	256	0.39	5,006	7.66	739	718	1.10	26,718	40.88	784	441	0.67	57,416	87.85

Table 86. ELA Grade 5 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	386	0.59	57,802	88.44	830	40	0.06	65,014	99.47
786	398	0.61	58,200	89.05	831	23	0.04	65,037	99.51
787	378	0.58	58,578	89.62	832	15	0.02	65,052	99.53
788	371	0.57	58,949	90.19	833	29	0.04	65,081	99.57
789	349	0.53	59,298	90.73	834	24	0.04	65,105	99.61
790	334	0.51	59,632	91.24	835	22	0.03	65,127	99.65
791	324	0.50	59,956	91.73	836	18	0.03	65,145	99.67
792	302	0.46	60,258	92.20	837	12	0.02	65,157	99.69
793	263	0.40	60,521	92.60	838	21	0.03	65,178	99.72
794	253	0.39	60,774	92.98	839	16	0.02	65,194	99.75
795	278	0.43	61,052	93.41	840	13	0.02	65,207	99.77
796	250	0.38	61,302	93.79	841	10	0.02	65,217	99.78
797	210	0.32	61,512	94.11	842	16	0.02	65,233	99.81
798	245	0.37	61,757	94.49	843	8	0.01	65,241	99.82
799	240	0.37	61,997	94.86	844	13	0.02	65,254	99.84
800	179	0.27	62,176	95.13	845	11	0.02	65,265	99.86
801	210	0.32	62,386	95.45	846	10	0.02	65,275	99.87
802	183	0.28	62,569	95.73	847	13	0.02	65,288	99.89
803	192	0.29	62,761	96.03	848	7	0.01	65,295	99.90
804	149	0.23	62,910	96.25	849	6	0.01	65,301	99.91
805	166	0.25	63,076	96.51	850	58	0.09	65,359	100.00
806	162	0.25	63,238	96.75					
807	145	0.22	63,383	96.98					
808	125	0.19	63,508	97.17					
809	127	0.19	63,635	97.36					
810	119	0.18	63,754	97.54					
811	104	0.16	63,858	97.70					
812	110	0.17	63,968	97.87					
813	112	0.17	64,080	98.04					
814	90	0.14	64,170	98.18					
815	77	0.12	64,247	98.30					
816	62	0.09	64,309	98.39					
817	70	0.11	64,379	98.50					
818	71	0.11	64,450	98.61					
819	82	0.13	64,532	98.73					
820	72	0.11	64,604	98.84					
821	62	0.09	64,666	98.94					
822	56	0.09	64,722	99.03					
823	45	0.07	64,767	99.09					
824	33	0.05	64,800	99.14					
825	34	0.05	64,834	99.20					
826	43	0.07	64,877	99.26					
827	40	0.06	64,917	99.32					
828	25	0.04	64,942	99.36					
829	32	0.05	64,974	99.41					

Table 87. ELA Grade 6 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	227	0.36	227	0.36	695	274	0.43	5,348	8.40	740	694	1.09	29,553	46.43
651	19	0.03	246	0.39	696	329	0.52	5,677	8.92	741	751	1.18	30,304	47.61
652	20	0.03	266	0.42	697	308	0.48	5,985	9.40	742	773	1.21	31,077	48.83
653	34	0.05	300	0.47	698	329	0.52	6,314	9.92	743	755	1.19	31,832	50.01
654	22	0.03	322	0.51	699	339	0.53	6,653	10.45	744	735	1.15	32,567	51.17
655	26	0.04	348	0.55	700	383	0.60	7,036	11.05	745	781	1.23	33,348	52.40
656	22	0.03	370	0.58	701	366	0.58	7,402	11.63	746	795	1.25	34,143	53.64
657	18	0.03	388	0.61	702	361	0.57	7,763	12.20	747	766	1.20	34,909	54.85
658	20	0.03	408	0.64	703	368	0.58	8,131	12.78	748	737	1.16	35,646	56.01
659	37	0.06	445	0.70	704	392	0.62	8,523	13.39	749	732	1.15	36,378	57.16
660	25	0.04	470	0.74	705	377	0.59	8,900	13.98	750	765	1.20	37,143	58.36
661	23	0.04	493	0.77	706	404	0.63	9,304	14.62	751	696	1.09	37,839	59.45
662	43	0.07	536	0.84	707	402	0.63	9,706	15.25	752	809	1.27	38,648	60.72
663	41	0.06	577	0.91	708	487	0.77	10,193	16.01	753	733	1.15	39,381	61.87
664	50	0.08	627	0.99	709	452	0.71	10,645	16.73	754	731	1.15	40,112	63.02
665	54	0.08	681	1.07	710	486	0.76	11,131	17.49	755	735	1.15	40,847	64.18
666	49	0.08	730	1.15	711	471	0.74	11,602	18.23	756	751	1.18	41,598	65.36
667	69	0.11	799	1.26	712	474	0.74	12,076	18.97	757	747	1.17	42,345	66.53
668	57	0.09	856	1.34	713	526	0.83	12,602	19.80	758	745	1.17	43,090	67.70
669	71	0.11	927	1.46	714	526	0.83	13,128	20.63	759	723	1.14	43,813	68.84
670	58	0.09	985	1.55	715	519	0.82	13,647	21.44	760	714	1.12	44,527	69.96
671	62	0.10	1,047	1.65	716	524	0.82	14,171	22.26	761	693	1.09	45,220	71.05
672	82	0.13	1,129	1.77	717	543	0.85	14,714	23.12	762	648	1.02	45,868	72.07
673	80	0.13	1,209	1.90	718	533	0.84	15,247	23.96	763	627	0.99	46,495	73.05
674	105	0.16	1,314	2.06	719	553	0.87	15,800	24.82	764	594	0.93	47,089	73.98
675	109	0.17	1,423	2.24	720	551	0.87	16,351	25.69	765	609	0.96	47,698	74.94
676	89	0.14	1,512	2.38	721	585	0.92	16,936	26.61	766	588	0.92	48,286	75.87
677	116	0.18	1,628	2.56	722	559	0.88	17,495	27.49	767	630	0.99	48,916	76.86
678	119	0.19	1,747	2.74	723	622	0.98	18,117	28.46	768	561	0.88	49,477	77.74
679	123	0.19	1,870	2.94	724	585	0.92	18,702	29.38	769	556	0.87	50,033	78.61
680	129	0.20	1,999	3.14	725	600	0.94	19,302	30.33	770	521	0.82	50,554	79.43
681	138	0.22	2,137	3.36	726	620	0.97	19,922	31.30	771	598	0.94	51,152	80.37
682	171	0.27	2,308	3.63	727	648	1.02	20,570	32.32	772	527	0.83	51,679	81.20
683	169	0.27	2,477	3.89	728	623	0.98	21,193	33.30	773	538	0.85	52,217	82.04
684	170	0.27	2,647	4.16	729	652	1.02	21,845	34.32	774	509	0.80	52,726	82.84
685	195	0.31	2,842	4.47	730	652	1.02	22,497	35.35	775	555	0.87	53,281	83.71
686	181	0.28	3,023	4.75	731	698	1.10	23,195	36.44	776	460	0.72	53,741	84.44
687	217	0.34	3,240	5.09	732	681	1.07	23,876	37.51	777	464	0.73	54,205	85.17
688	206	0.32	3,446	5.41	733	700	1.10	24,576	38.61	778	453	0.71	54,658	85.88
689	249	0.39	3,695	5.81	734	706	1.11	25,282	39.72	779	442	0.69	55,100	86.57
690	240	0.38	3,935	6.18	735	736	1.16	26,018	40.88	780	444	0.70	55,544	87.27
691	279	0.44	4,214	6.62	736	721	1.13	26,739	42.01	781	391	0.61	55,935	87.88
692	270	0.42	4,484	7.05	737	697	1.10	27,436	43.11	782	394	0.62	56,329	88.50
693	304	0.48	4,788	7.52	738	682	1.07	28,118	44.18	783	376	0.59	56,705	89.09
694	286	0.45	5,074	7.97	739	741	1.16	28,859	45.34	784	382	0.60	57,087	89.69

Table 88. ELA Grade 6 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	343	0.54	57,430	90.23	830	24	0.04	63,378	99.58
786	338	0.53	57,768	90.76	831	24	0.04	63,402	99.62
787	332	0.52	58,100	91.28	832	20	0.03	63,422	99.65
788	297	0.47	58,397	91.75	833	20	0.03	63,442	99.68
789	325	0.51	58,722	92.26	834	18	0.03	63,460	99.71
790	256	0.40	58,978	92.66	835	14	0.02	63,474	99.73
791	270	0.42	59,248	93.09	836	14	0.02	63,488	99.75
792	241	0.38	59,489	93.47	837	13	0.02	63,501	99.77
793	224	0.35	59,713	93.82	838	11	0.02	63,512	99.79
794	229	0.36	59,942	94.18	839	14	0.02	63,526	99.81
795	213	0.33	60,155	94.51	840	11	0.02	63,537	99.83
796	202	0.32	60,357	94.83	841	8	0.01	63,545	99.84
797	192	0.30	60,549	95.13	842	12	0.02	63,557	99.86
798	185	0.29	60,734	95.42	843	7	0.01	63,564	99.87
799	187	0.29	60,921	95.72	844	7	0.01	63,571	99.88
800	185	0.29	61,106	96.01	845	7	0.01	63,578	99.89
801	174	0.27	61,280	96.28	846	6	0.01	63,584	99.90
802	155	0.24	61,435	96.52	847	4	0.01	63,588	99.91
803	133	0.21	61,568	96.73	848	3	0.00	63,591	99.91
804	136	0.21	61,704	96.95	850	56	0.09	63,647	100.00
805	131	0.21	61,835	97.15					
806	110	0.17	61,945	97.33					
807	98	0.15	62,043	97.48					
808	90	0.14	62,133	97.62					
809	93	0.15	62,226	97.77					
810	79	0.12	62,305	97.89					
811	85	0.13	62,390	98.03					
812	93	0.15	62,483	98.17					
813	87	0.14	62,570	98.31					
814	77	0.12	62,647	98.43					
815	66	0.10	62,713	98.53					
816	72	0.11	62,785	98.65					
817	61	0.10	62,846	98.74					
818	49	0.08	62,895	98.82					
819	58	0.09	62,953	98.91					
820	55	0.09	63,008	99.00					
821	39	0.06	63,047	99.06					
822	48	0.08	63,095	99.13					
823	48	0.08	63,143	99.21					
824	39	0.06	63,182	99.27					
825	44	0.07	63,226	99.34					
826	43	0.07	63,269	99.41					
827	22	0.03	63,291	99.44					
828	37	0.06	63,328	99.50					
829	26	0.04	63,354	99.54					

Table 89. ELA Grade 7 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	710	1.17	710	1.17	695	295	0.48	7,619	12.51	740	572	0.94	26,911	44.18
651	46	0.08	756	1.24	696	269	0.44	7,888	12.95	741	598	0.98	27,509	45.17
652	36	0.06	792	1.30	697	296	0.49	8,184	13.44	742	644	1.06	28,153	46.22
653	47	0.08	839	1.38	698	304	0.50	8,488	13.94	743	586	0.96	28,739	47.19
654	39	0.06	878	1.44	699	305	0.50	8,793	14.44	744	625	1.03	29,364	48.21
655	55	0.09	933	1.53	700	323	0.53	9,116	14.97	745	623	1.02	29,987	49.23
656	70	0.11	1,003	1.65	701	303	0.50	9,419	15.46	746	598	0.98	30,585	50.22
657	63	0.10	1,066	1.75	702	335	0.55	9,754	16.01	747	684	1.12	31,269	51.34
658	74	0.12	1,140	1.87	703	288	0.47	10,042	16.49	748	643	1.06	31,912	52.39
659	83	0.14	1,223	2.01	704	339	0.56	10,381	17.04	749	628	1.03	32,540	53.43
660	70	0.11	1,293	2.12	705	348	0.57	10,729	17.62	750	659	1.08	33,199	54.51
661	93	0.15	1,386	2.28	706	314	0.52	11,043	18.13	751	633	1.04	33,832	55.55
662	82	0.13	1,468	2.41	707	343	0.56	11,386	18.69	752	594	0.98	34,426	56.52
663	74	0.12	1,542	2.53	708	322	0.53	11,708	19.22	753	652	1.07	35,078	57.59
664	94	0.15	1,636	2.69	709	362	0.59	12,070	19.82	754	620	1.02	35,698	58.61
665	105	0.17	1,741	2.86	710	375	0.62	12,445	20.43	755	637	1.05	36,335	59.66
666	115	0.19	1,856	3.05	711	363	0.60	12,808	21.03	756	630	1.03	36,965	60.69
667	121	0.20	1,977	3.25	712	382	0.63	13,190	21.66	757	596	0.98	37,561	61.67
668	104	0.17	2,081	3.42	713	397	0.65	13,587	22.31	758	617	1.01	38,178	62.68
669	94	0.15	2,175	3.57	714	389	0.64	13,976	22.95	759	634	1.04	38,812	63.72
670	145	0.24	2,320	3.81	715	387	0.64	14,363	23.58	760	608	1.00	39,420	64.72
671	139	0.23	2,459	4.04	716	412	0.68	14,775	24.26	761	606	0.99	40,026	65.72
672	160	0.26	2,619	4.30	717	425	0.70	15,200	24.96	762	587	0.96	40,613	66.68
673	152	0.25	2,771	4.55	718	407	0.67	15,607	25.62	763	575	0.94	41,188	67.62
674	154	0.25	2,925	4.80	719	413	0.68	16,020	26.30	764	581	0.95	41,769	68.58
675	149	0.24	3,074	5.05	720	438	0.72	16,458	27.02	765	558	0.92	42,327	69.49
676	154	0.25	3,228	5.30	721	465	0.76	16,923	27.78	766	575	0.94	42,902	70.44
677	174	0.29	3,402	5.59	722	461	0.76	17,384	28.54	767	567	0.93	43,469	71.37
678	159	0.26	3,561	5.85	723	482	0.79	17,866	29.33	768	551	0.90	44,020	72.27
679	189	0.31	3,750	6.16	724	490	0.80	18,356	30.14	769	516	0.85	44,536	73.12
680	195	0.32	3,945	6.48	725	456	0.75	18,812	30.89	770	581	0.95	45,117	74.08
681	228	0.37	4,173	6.85	726	484	0.79	19,296	31.68	771	554	0.91	45,671	74.98
682	219	0.36	4,392	7.21	727	503	0.83	19,799	32.51	772	558	0.92	46,229	75.90
683	245	0.40	4,637	7.61	728	518	0.85	20,317	33.36	773	546	0.90	46,775	76.80
684	215	0.35	4,852	7.97	729	496	0.81	20,813	34.17	774	523	0.86	47,298	77.66
685	212	0.35	5,064	8.31	730	518	0.85	21,331	35.02	775	468	0.77	47,766	78.42
686	217	0.36	5,281	8.67	731	557	0.91	21,888	35.94	776	488	0.80	48,254	79.23
687	236	0.39	5,517	9.06	732	499	0.82	22,387	36.76	777	452	0.74	48,706	79.97
688	227	0.37	5,744	9.43	733	557	0.91	22,944	37.67	778	448	0.74	49,154	80.70
689	262	0.43	6,006	9.86	734	523	0.86	23,467	38.53	779	462	0.76	49,616	81.46
690	267	0.44	6,273	10.30	735	517	0.85	23,984	39.38	780	448	0.74	50,064	82.20
691	259	0.43	6,532	10.72	736	572	0.94	24,556	40.32	781	449	0.74	50,513	82.93
692	269	0.44	6,801	11.17	737	557	0.91	25,113	41.23	782	430	0.71	50,943	83.64
693	271	0.44	7,072	11.61	738	600	0.99	25,713	42.22	783	395	0.65	51,338	84.29
694	252	0.41	7,324	12.02	739	626	1.03	26,339	43.24	784	394	0.65	51,732	84.94

Table 90. ELA Grade 7 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	390	0.64	52,122	85.58	830	56	0.09	60,141	98.74
786	359	0.59	52,481	86.17	831	41	0.07	60,182	98.81
787	320	0.53	52,801	86.69	832	41	0.07	60,223	98.88
788	357	0.59	53,158	87.28	833	58	0.10	60,281	98.97
789	339	0.56	53,497	87.83	834	38	0.06	60,319	99.03
790	324	0.53	53,821	88.37	835	44	0.07	60,363	99.11
791	324	0.53	54,145	88.90	836	38	0.06	60,401	99.17
792	306	0.50	54,451	89.40	837	28	0.05	60,429	99.22
793	313	0.51	54,764	89.91	838	34	0.06	60,463	99.27
794	263	0.43	55,027	90.35	839	42	0.07	60,505	99.34
795	239	0.39	55,266	90.74	840	30	0.05	60,535	99.39
796	264	0.43	55,530	91.17	841	22	0.04	60,557	99.43
797	235	0.39	55,765	91.56	842	21	0.03	60,578	99.46
798	245	0.40	56,010	91.96	843	20	0.03	60,598	99.49
799	227	0.37	56,237	92.33	844	12	0.02	60,610	99.51
800	229	0.38	56,466	92.71	845	22	0.04	60,632	99.55
801	195	0.32	56,661	93.03	846	21	0.03	60,653	99.58
802	213	0.35	56,874	93.38	847	16	0.03	60,669	99.61
803	220	0.36	57,094	93.74	848	17	0.03	60,686	99.64
804	185	0.30	57,279	94.04	849	15	0.02	60,701	99.66
805	191	0.31	57,470	94.36	850	206	0.34	60,907	100.00
806	188	0.31	57,658	94.67					
807	157	0.26	57,815	94.92					
808	139	0.23	57,954	95.15					
809	158	0.26	58,112	95.41					
810	149	0.24	58,261	95.66					
811	142	0.23	58,403	95.89					
812	120	0.20	58,523	96.09					
813	134	0.22	58,657	96.31					
814	119	0.20	58,776	96.50					
815	119	0.20	58,895	96.70					
816	137	0.22	59,032	96.92					
817	99	0.16	59,131	97.08					
818	89	0.15	59,220	97.23					
819	98	0.16	59,318	97.39					
820	99	0.16	59,417	97.55					
821	100	0.16	59,517	97.72					
822	86	0.14	59,603	97.86					
823	92	0.15	59,695	98.01					
824	70	0.11	59,765	98.13					
825	72	0.12	59,837	98.24					
826	51	0.08	59,888	98.33					
827	74	0.12	59,962	98.45					
828	67	0.11	60,029	98.56					
829	56	0.09	60,085	98.65					

Table 91. ELA Grade 8 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	482	0.82	482	0.82	695	273	0.47	7,461	12.71	740	624	1.06	27,735	47.26
651	40	0.07	522	0.89	696	279	0.48	7,740	13.19	741	594	1.01	28,329	48.27
652	44	0.07	566	0.96	697	282	0.48	8,022	13.67	742	569	0.97	28,898	49.24
653	33	0.06	599	1.02	698	298	0.51	8,320	14.18	743	544	0.93	29,442	50.17
654	57	0.10	656	1.12	699	304	0.52	8,624	14.70	744	608	1.04	30,050	51.21
655	42	0.07	698	1.19	700	312	0.53	8,936	15.23	745	579	0.99	30,629	52.19
656	56	0.10	754	1.28	701	311	0.53	9,247	15.76	746	603	1.03	31,232	53.22
657	51	0.09	805	1.37	702	313	0.53	9,560	16.29	747	596	1.02	31,828	54.24
658	59	0.10	864	1.47	703	312	0.53	9,872	16.82	748	597	1.02	32,425	55.25
659	62	0.11	926	1.58	704	337	0.57	10,209	17.40	749	583	0.99	33,008	56.25
660	71	0.12	997	1.70	705	327	0.56	10,536	17.95	750	561	0.96	33,569	57.20
661	83	0.14	1,080	1.84	706	357	0.61	10,893	18.56	751	603	1.03	34,172	58.23
662	77	0.13	1,157	1.97	707	336	0.57	11,229	19.13	752	547	0.93	34,719	59.16
663	90	0.15	1,247	2.12	708	370	0.63	11,599	19.77	753	607	1.03	35,326	60.20
664	91	0.16	1,338	2.28	709	387	0.66	11,986	20.42	754	586	1.00	35,912	61.20
665	84	0.14	1,422	2.42	710	399	0.68	12,385	21.10	755	556	0.95	36,468	62.14
666	113	0.19	1,535	2.62	711	363	0.62	12,748	21.72	756	555	0.95	37,023	63.09
667	113	0.19	1,648	2.81	712	404	0.69	13,152	22.41	757	573	0.98	37,596	64.07
668	106	0.18	1,754	2.99	713	433	0.74	13,585	23.15	758	540	0.92	38,136	64.99
669	136	0.23	1,890	3.22	714	407	0.69	13,992	23.84	759	528	0.90	38,664	65.89
670	120	0.20	2,010	3.43	715	416	0.71	14,408	24.55	760	544	0.93	39,208	66.81
671	148	0.25	2,158	3.68	716	406	0.69	14,814	25.24	761	570	0.97	39,778	67.78
672	138	0.24	2,296	3.91	717	456	0.78	15,270	26.02	762	553	0.94	40,331	68.73
673	143	0.24	2,439	4.16	718	475	0.81	15,745	26.83	763	555	0.95	40,886	69.67
674	171	0.29	2,610	4.45	719	498	0.85	16,243	27.68	764	495	0.84	41,381	70.51
675	196	0.33	2,806	4.78	720	461	0.79	16,704	28.46	765	490	0.83	41,871	71.35
676	189	0.32	2,995	5.10	721	477	0.81	17,181	29.28	766	502	0.86	42,373	72.21
677	209	0.36	3,204	5.46	722	495	0.84	17,676	30.12	767	465	0.79	42,838	73.00
678	178	0.30	3,382	5.76	723	505	0.86	18,181	30.98	768	486	0.83	43,324	73.83
679	209	0.36	3,591	6.12	724	507	0.86	18,688	31.85	769	521	0.89	43,845	74.71
680	213	0.36	3,804	6.48	725	526	0.90	19,214	32.74	770	447	0.76	44,292	75.48
681	210	0.36	4,014	6.84	726	473	0.81	19,687	33.55	771	457	0.78	44,749	76.25
682	208	0.35	4,222	7.19	727	576	0.98	20,263	34.53	772	479	0.82	45,228	77.07
683	218	0.37	4,440	7.57	728	557	0.95	20,820	35.48	773	440	0.75	45,668	77.82
684	225	0.38	4,665	7.95	729	626	1.07	21,446	36.54	774	423	0.72	46,091	78.54
685	240	0.41	4,905	8.36	730	565	0.96	22,011	37.51	775	419	0.71	46,510	79.25
686	228	0.39	5,133	8.75	731	551	0.94	22,562	38.45	776	446	0.76	46,956	80.01
687	243	0.41	5,376	9.16	732	600	1.02	23,162	39.47	777	419	0.71	47,375	80.73
688	238	0.41	5,614	9.57	733	551	0.94	23,713	40.41	778	393	0.67	47,768	81.40
689	258	0.44	5,872	10.01	734	545	0.93	24,258	41.34	779	410	0.70	48,178	82.10
690	235	0.40	6,107	10.41	735	571	0.97	24,829	42.31	780	389	0.66	48,567	82.76
691	275	0.47	6,382	10.88	736	565	0.96	25,394	43.27	781	404	0.69	48,971	83.45
692	261	0.44	6,643	11.32	737	590	1.01	25,984	44.28	782	365	0.62	49,336	84.07
693	281	0.48	6,924	11.80	738	553	0.94	26,537	45.22	783	350	0.60	49,686	84.67
694	264	0.45	7,188	12.25	739	574	0.98	27,111	46.20	784	314	0.54	50,000	85.20

Table 92. ELA Grade 8 Scale Score Distribution (continued)

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	336	0.57	50,336	85.77	830	52	0.09	57,862	98.60
786	318	0.54	50,654	86.32	831	41	0.07	57,903	98.67
787	317	0.54	50,971	86.86	832	43	0.07	57,946	98.74
788	278	0.47	51,249	87.33	833	56	0.10	58,002	98.84
789	271	0.46	51,520	87.79	834	42	0.07	58,044	98.91
790	281	0.48	51,801	88.27	835	48	0.08	58,092	98.99
791	270	0.46	52,071	88.73	836	28	0.05	58,120	99.04
792	286	0.49	52,357	89.22	837	45	0.08	58,165	99.12
793	248	0.42	52,605	89.64	838	25	0.04	58,190	99.16
794	250	0.43	52,855	90.07	839	31	0.05	58,221	99.21
795	252	0.43	53,107	90.50	840	26	0.04	58,247	99.26
796	237	0.40	53,344	90.90	841	33	0.06	58,280	99.31
797	200	0.34	53,544	91.24	842	36	0.06	58,316	99.37
798	247	0.42	53,791	91.66	843	30	0.05	58,346	99.42
799	213	0.36	54,004	92.03	844	29	0.05	58,375	99.47
800	208	0.35	54,212	92.38	845	16	0.03	58,391	99.50
801	196	0.33	54,408	92.71	846	14	0.02	58,405	99.52
802	191	0.33	54,599	93.04	847	12	0.02	58,417	99.55
803	177	0.30	54,776	93.34	848	21	0.04	58,438	99.58
804	168	0.29	54,944	93.63	849	21	0.04	58,459	99.62
805	192	0.33	55,136	93.95	850	225	0.38	58,684	100.00
806	171	0.29	55,307	94.25					
807	148	0.25	55,455	94.50					
808	178	0.30	55,633	94.80					
809	170	0.29	55,803	95.09					
810	177	0.30	55,980	95.39					
811	140	0.24	56,120	95.63					
812	138	0.24	56,258	95.87					
813	138	0.24	56,396	96.10					
814	118	0.20	56,514	96.30					
815	123	0.21	56,637	96.51					
816	113	0.19	56,750	96.70					
817	101	0.17	56,851	96.88					
818	98	0.17	56,949	97.04					
819	107	0.18	57,056	97.23					
820	89	0.15	57,145	97.38					
821	87	0.15	57,232	97.53					
822	87	0.15	57,319	97.67					
823	91	0.16	57,410	97.83					
824	68	0.12	57,478	97.94					
825	71	0.12	57,549	98.07					
826	81	0.14	57,630	98.20					
827	62	0.11	57,692	98.31					
828	60	0.10	57,752	98.41					
829	58	0.10	57,810	98.51					

Table 93. CSLA Grade 3 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	3	0.18	3	0.18	769	16	0.98	1,505	92.11
667	6	0.37	9	0.55	771	14	0.86	1,519	92.96
678	10	0.61	19	1.16	773	18	1.10	1,537	94.06
685	19	1.16	38	2.33	775	16	0.98	1,553	95.04
691	22	1.35	60	3.67	777	13	0.80	1,566	95.84
696	36	2.20	96	5.88	779	15	0.92	1,581	96.76
700	39	2.39	135	8.26	783	9	0.55	1,590	97.31
704	41	2.51	176	10.77	786	7	0.43	1,597	97.74
707	33	2.02	209	12.79	789	5	0.31	1,602	98.04
710	41	2.51	250	15.30	793	4	0.24	1,606	98.29
712	43	2.63	293	17.93	797	3	0.18	1,609	98.47
715	43	2.63	336	20.56	801	5	0.31	1,614	98.78
717	51	3.12	387	23.68	806	6	0.37	1,620	99.14
719	44	2.69	431	26.38	812	2	0.12	1,622	99.27
721	54	3.30	485	29.68	818	8	0.49	1,630	99.76
723	40	2.45	525	32.13	826	1	0.06	1,631	99.82
725	44	2.69	569	34.82	834	1	0.06	1,632	99.88
727	59	3.61	628	38.43	844	1	0.06	1,633	99.94
729	33	2.02	661	40.45	850	1	0.06	1,634	100.00
730	43	2.63	704	43.08					
732	35	2.14	739	45.23					
734	34	2.08	773	47.31					
735	40	2.45	813	49.76					
737	37	2.26	850	52.02					
738	43	2.63	893	54.65					
740	38	2.33	931	56.98					
741	55	3.37	986	60.34					
743	38	2.33	1,024	62.67					
744	47	2.88	1,071	65.54					
746	33	2.02	1,104	67.56					
747	39	2.39	1,143	69.95					
749	41	2.51	1,184	72.46					
750	27	1.65	1,211	74.11					
752	32	1.96	1,243	76.07					
753	37	2.26	1,280	78.34					
755	35	2.14	1,315	80.48					
756	30	1.84	1,345	82.31					
758	35	2.14	1,380	84.46					
760	22	1.35	1,402	85.80					
761	21	1.29	1,423	87.09					
763	30	1.84	1,453	88.92					
765	13	0.80	1,466	89.72					
767	23	1.41	1,489	91.13					

Table 94. CSLA Grade 4 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
658	2	0.19	2	0.19	759	12	1.14	965	91.56
668	9	0.85	11	1.04	760	11	1.04	976	92.60
676	7	0.66	18	1.71	762	11	1.04	987	93.64
682	13	1.23	31	2.94	764	12	1.14	999	94.78
687	16	1.52	47	4.46	765	12	1.14	1,011	95.92
691	15	1.42	62	5.88	767	4	0.38	1,015	96.30
694	29	2.75	91	8.63	769	7	0.66	1,022	96.96
698	26	2.47	117	11.10	771	2	0.19	1,024	97.15
700	18	1.71	135	12.81	772	4	0.38	1,028	97.53
703	26	2.47	161	15.28	775	2	0.19	1,030	97.72
706	25	2.37	186	17.65	777	8	0.76	1,038	98.48
708	23	2.18	209	19.83	779	3	0.28	1,041	98.77
710	32	3.04	241	22.87	782	5	0.47	1,046	99.24
712	25	2.37	266	25.24	784	3	0.28	1,049	99.53
714	18	1.71	284	26.94	790	2	0.19	1,051	99.72
716	28	2.66	312	29.60	796	2	0.19	1,053	99.91
718	27	2.56	339	32.16	812	1	0.09	1,054	100.00
720	33	3.13	372	35.29					
721	29	2.75	401	38.05					
723	22	2.09	423	40.13					
725	35	3.32	458	43.45					
726	29	2.75	487	46.20					
728	28	2.66	515	48.86					
729	18	1.71	533	50.57					
731	22	2.09	555	52.66					
732	28	2.66	583	55.31					
734	24	2.28	607	57.59					
735	12	1.14	619	58.73					
737	27	2.56	646	61.29					
738	30	2.85	676	64.14					
740	26	2.47	702	66.60					
741	21	1.99	723	68.60					
742	26	2.47	749	71.06					
744	21	1.99	770	73.06					
745	28	2.66	798	75.71					
747	27	2.56	825	78.27					
748	23	2.18	848	80.46					
750	17	1.61	865	82.07					
751	20	1.90	885	83.97					
753	21	1.99	906	85.96					
754	17	1.61	923	87.57					
756	19	1.80	942	89.37					
757	11	1.04	953	90.42					

Table 95. Scale Score Performance Summary

Content Area	Grade	N	Mean	SD	Median	2017 Scale Scores	
						Mean	SD
MATH	3	64,714	739	36.5	740	739	37.2
	4	65,995	734	33.2	735	735	33.0
	5	65,516	737	34.0	736	736	32.4
	6	63,765	733	31.3	732	733	32.3
	7	59,983	733	28.7	734	732	27.4
	8	49,189	728	37.1	728	722	34.6
ELA	3	63,016	739	39.8	740	738	40.0
	4	64,789	745	35.4	746	743	35.3
	5	65,359	746	34.1	747	745	34.1
	6	63,647	743	33.5	743	742	31.2
	7	60,907	744	39.7	746	743	37.8
	8	58,684	743	39.7	743	742	38.5
CSLA	3	1,634	736	25.1	737	737	24.5
	4	1,054	729	23.3	729	726	21.2

Table 96. Percentage of Performance Levels

Content Area	Grade	2018 Performance Level %					2017 Performance Level %				
		1	2	3	4	5	1	2	3	4	5
MATH	3	14.26%	19.76%	26.87%	30.98%	8.12%	14.82%	19.15%	26.07%	31.25%	8.71%
	4	15.40%	23.51%	27.24%	31.11%	2.74%	14.74%	23.10%	28.11%	30.72%	3.33%
	5	13.65%	23.12%	27.68%	29.35%	6.20%	13.43%	23.51%	29.46%	28.93%	4.66%
	6	14.11%	27.15%	28.38%	26.16%	4.19%	15.46%	24.60%	29.05%	26.34%	4.55%
	7	12.26%	24.71%	34.22%	26.03%	2.78%	11.91%	27.40%	34.86%	23.62%	2.22%
	8	22.93%	23.56%	25.35%	25.43%	2.74%	29.50%	23.83%	25.62%	19.62%	1.39%
ELA	3	17.77%	18.08%	23.79%	36.65%	3.70%	18.57%	17.49%	23.79%	36.83%	3.31%
	4	10.61%	17.22%	26.10%	35.64%	10.43%	11.99%	17.70%	26.20%	35.07%	9.04%
	5	9.87%	16.11%	26.65%	41.87%	5.51%	10.53%	17.00%	26.21%	40.91%	5.34%
	6	10.45%	18.93%	27.77%	35.11%	7.74%	10.08%	20.30%	29.04%	34.45%	6.13%
	7	14.44%	15.70%	23.29%	31.51%	15.06%	13.98%	16.81%	24.99%	30.76%	13.46%
	8	14.70%	17.15%	24.40%	33.39%	10.36%	14.75%	17.59%	24.31%	34.23%	9.12%
CSLA	3	5.88%	26.25%	40.33%	23.38%	4.16%	5.70%	24.99%	39.92%	26.16%	3.23%
	4	11.10%	29.03%	40.32%	16.70%	2.85%	12.34%	34.97%	37.96%	13.29%	1.44%

Note: Percentages may not sum to 100 due to rounding.

Table 97. Mathematics Points Earned Summary by Subclaim

Subclaim	Grade	Mean	SD	Min	Max	Max Points Possible	Average Percent Correct
Subclaim A	3	10.6	5.4	0	22	22	48.28%
	4	11.2	5.8	0	23	23*	48.54%
	5	8.7	5.3	0	23	23	37.67%
	6	8.1	4.5	0	20	20	40.25%
	7	6.4	4.7	0	23	23	27.73%
	8	6.9	3.9	0	21	21	33.06%
Subclaim B	3	4.8	2.4	0	9	9	53.01%
	4	2.2	1.7	0	7	7	31.37%
	5	3.7	1.9	0	8	8	46.82%
	6	4.1	2.5	0	11	11	37.52%
	7	3.3	2.0	0	8	8	41.66%
	8	4.5	2.3	0	10	10	45.48%
Subclaim C	3	4.4	3.1	0	11	11	39.88%
	4	2.4	2.3	0	11	11	21.66%
	5	2.9	2.4	0	11	11	26.45%
	6	2.8	3.0	0	11	11	25.02%
	7	2.4	2.2	0	11	11	21.70%
	8	1.6	2.3	0	11	11	14.41%
Subclaim D	3	2.7	2.3	0	9	9	29.91%
	4	2.8	2.8	0	9	9	30.72%
	5	2.8	2.7	0	9	9	31.62%
	6	2.3	2.5	0	9	9	24.99%
	7	3.2	2.7	0	9	9	35.40%
	8	1.9	1.8	0	9	9	21.32%

*One item was removed from scoring in Grade 4.

Table 98. ELA Points Earned Summary by Subclaim

Subclaim	Grade	Mean	SD	Min	Max	Max Points Possible	Average Percent Correct
RL	3	8.4	4.0	0	17	17	49.29%
	4	8.1	3.8	0	18	18*	45.24%
	5	6.8	3.4	0	18	18	38.01%
	6	6.3	4.0	0	18	18	35.16%
	7	6.6	3.9	0	18	18	36.46%
	8	7.5	4.0	0	18	18	41.94%
RI	3	6.7	3.8	0	14	14	47.94%
	4	7.0	4.3	0	18	18	39.12%
	5	7.8	3.7	0	18	18	43.57%
	6	9.1	4.9	0	22	22	41.23%
	7	8.1	4.3	0	18	18*	45.22%
	8	9.7	4.9	0	22	22	43.95%
RV	3	6.5	2.6	0	10	10	64.96%
	4	4.8	2.3	0	8	8	59.70%
	5	4.3	2.1	0	8	8	54.03%
	6	5.2	2.3	0	8	8	65.56%
	7	5.5	2.8	0	10	10	55.07%
	8	4.9	2.3	0	10	10	49.11%
WE (unweighted)	3	0.9	1.1	0	6	6	15.37%
	4	1.8	1.5	0	7	7	26.05%
	5	1.6	1.4	0	7	7	23.47%
	6	2.4	2.0	0	8	8	30.12%
	7	2.3	2.0	0	8	8	29.40%
	8	2.7	2.1	0	8	8	34.53%
WKL	3	1.3	1.2	0	6	6	21.25%
	4	2.0	1.4	0	6	6	33.11%
	5	2.0	1.5	0	6	6	33.45%
	6	2.3	1.9	0	6	6	38.91%
	7	2.4	1.9	0	6	6	39.32%
	8	2.8	1.9	0	6	6	45.85%

*One item was removed from scoring in Grade 4. Two items were removed from scoring in Grade 7.

Table 99. CSLA Points Earned Summary by Subclaim

Subclaim	Grade	Mean	SD	Min	Max	Max Points Possible	Average Percent Correct
RL	3	7.2	4.2	0	17	17	42.18%
	4	9.2	4.4	0	19	20	46.19%
RI	3	4.9	3.3	0	14	14	35.14%
	4	5.6	3.5	0	18	18	31.23%
RV	3	4.5	2.5	0	10	10	44.79%
	4	3.0	2.0	0	8	8	37.33%
WE (unweighted)	3	1.8	1.4	0	6	6	30.77%
	4	2.1	1.5	0	7	7	30.03%
WKL	3	2.5	1.8	0	6	6	40.92%
	4	2.1	2.1	0	6	6	35.82%

Table 100. Mathematics Grade 3 Selected-Response Item Classical Statistics

Item	Omit %	p-value	Item– Total Corr.
1	1.50%	0.48	0.61
2	1.30%	0.19	0.61
3	0.00%	0.53	0.70
4	0.00%	0.26	0.60
5	3.60%	0.53	0.71
6	0.40%	0.48	0.53
7	0.20%	0.61	0.51
8	1.50%	0.62	0.62
9	5.00%	0.27	0.53
10	3.50%	0.29	0.58
11	0.00%	0.74	0.45
12	0.50%	0.26	0.30
13	2.60%	0.47	0.38
14	0.40%	0.65	0.53
15	0.40%	0.55	0.48
16	0.10%	0.80	0.53
17	0.00%	0.44	0.58
18	0.00%	0.72	0.47
19	1.70%	0.61	0.52
20	0.20%	0.66	0.49
21	0.00%	0.40	0.80
22	0.60%	0.33	0.31
23	0.10%	0.40	0.46
24	0.80%	0.36	0.65
25	0.00%	0.33	0.79
26	0.30%	0.36	0.59
27	1.40%	0.33	0.50
28	1.40%	0.40	0.55
29	0.40%	0.71	0.53
30	2.60%	0.48	0.65
31	1.20%	0.81	0.32
32	0.00%	0.25	0.69
33	0.10%	0.87	0.41

Table 101. Mathematics Grade 3 Constructed-Response Item Classical Statistics

Item	Max Points	Omit %	0%	1%	2%	3%	p-value	Item-Total Corr.
1	3	0.00	56.70	23.00	10.00	10.30	0.25	0.69

Table 102. Mathematics Grade 4 Selected-Response Item Classical Statistics

Item	Omit %	p-value	Item– Total Corr.
1	0.40%	0.35	0.72
2	1.00%	0.63	0.63
3	0.10%	0.59	0.61
4	0.00%	0.22	0.72
5	0.00%	0.33	0.75
6	0.00%	0.37	0.76
7	0.60%	0.43	0.57
8	0.00%	0.25	0.70
9	2.00%	0.15	0.49
10	0.60%	0.21	0.43
11	0.70%	0.62	0.49
12	3.70%	0.30	0.54
13	0.70%	0.42	0.61
14	2.10%	0.11	0.46
15	0.10%	0.61	0.43
16	1.00%	0.36	0.60
17	0.80%	0.30	0.63
18	5.50%	0.51	0.51
19	0.90%	0.52	0.45
20	0.60%	0.56	0.67
21	0.70%	0.41	0.57
22	1.20%	0.28	0.53
23	2.40%	0.77	0.39
24	2.10%	0.48	0.53
25	0.00%	0.09	0.56
26	0.50%	0.32	0.54
27	0.70%	0.84	0.44
28	1.00%	0.38	0.57
29	0.50%	0.53	0.50
30	0.00%	0.40	0.55

Table 103. Mathematics Grade 5 Selected-Response Item Classical Statistics

Item	Omit %	p-value	Item– Total Corr.
1	0.50%	0.45	0.55
2	0.60%	0.23	0.49
3	0.00%	0.28	0.58
4	4.10%	0.28	0.71
5	4.20%	0.53	0.58
6	0.60%	0.45	0.54
7	0.90%	0.47	0.27
8	0.70%	0.66	0.36
9	0.00%	0.23	0.49
10	1.00%	0.29	0.41
11	0.30%	0.38	0.58
12	0.00%	0.18	0.60
13	2.80%	0.21	0.37
14	0.50%	0.68	0.43
15	0.00%	0.36	0.71
16	0.00%	0.33	0.77
17	1.40%	0.25	0.49
18	0.60%	0.58	0.55
19	0.60%	0.27	0.57
20	0.10%	0.28	0.54
21	0.00%	0.32	0.81
22	1.40%	0.51	0.65
23	0.50%	0.61	0.51
24	0.40%	0.73	0.36
25	0.60%	0.17	0.47
26	0.00%	0.71	0.41
27	0.10%	0.55	0.55
28	0.00%	0.17	0.65
29	1.20%	0.25	0.61
30	0.20%	0.70	0.47

Table 104. Mathematics Grade 5 Constructed-Response Item Classical Statistics

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
1	4	0.00	31.40	23.90	21.40	15.00	8.40	0.36	0.71
2	3	0.00	46.50	24.60	13.00	16.00		0.33	0.77

Table 105. Mathematics Grade 6 Selected-Response Item Classical Statistics

Item	Omit %	p-value	Item– Total Corr.
1	0.00%	0.46	0.48
2	0.20%	0.26	0.56
3	0.20%	0.72	0.40
4	0.50%	0.19	0.48
5	1.10%	0.38	0.62
6	0.00%	0.24	0.73
7	0.00%	0.16	0.71
8	0.60%	0.64	0.41
9	0.40%	0.92	0.27
10	1.30%	0.12	0.50
11	0.40%	0.53	0.46
12	0.00%	0.85	0.39
13	3.20%	0.10	0.53
14	1.20%	0.23	0.51
15	0.90%	0.28	0.49
16	0.00%	0.34	0.77
17	0.10%	0.44	0.54
18	0.90%	0.25	0.69
19	0.00%	0.37	0.69
20	0.00%	0.43	0.58
21	2.30%	0.24	0.52
22	1.00%	0.27	0.83
23	3.20%	0.28	0.67
24	0.00%	0.19	0.77
25	0.10%	0.70	0.40
26	0.10%	0.65	0.40
27	0.90%	0.47	0.54
28	1.80%	0.32	0.63
29	0.30%	0.34	0.29

Table 106. Mathematics Grade 6 Constructed-Response Item Classical Statistics

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
1	3	0.00	64.70	11.60	10.40	13.40		0.24	0.73
2	4	0.00	63.00	19.80	9.40	5.80	2.10	0.16	0.71
3	4	0.00	49.50	8.20	12.00	16.20	14.20	0.34	0.77
4	3	0.00	41.20	24.50	15.10	19.20		0.37	0.69

Table 107. Mathematics Grade 7 Selected-Response Item Classical Statistics

Item	Omit %	p-value	Item– Total Corr.
1	0.00%	0.22	0.67
2	0.10%	0.23	0.64
3	4.00%	0.46	0.51
4	0.00%	0.07	0.55
5	0.10%	0.50	0.35
6	0.20%	0.55	0.35
7	1.00%	0.29	0.49
8	0.00%	0.41	0.70
9	0.50%	0.12	0.47
10	0.40%	0.08	0.48
11	0.60%	0.27	0.49
12	0.30%	0.37	0.58
13	0.20%	0.67	0.29
14	0.00%	0.21	0.71
15	0.00%	0.10	0.49
16	0.80%	0.16	0.46
17	0.00%	0.43	0.79
18	0.00%	0.63	0.38
19	0.50%	0.35	0.67
20	1.00%	0.18	0.29
21	0.50%	0.33	0.40
22	0.20%	0.31	0.49
23	2.40%	0.22	0.62
24	0.00%	0.39	0.47
25	0.40%	0.23	0.71
26	0.10%	0.46	0.51
27	0.90%	0.05	0.47
28	0.30%	0.39	0.39
29	0.00%	0.47	0.62

Table 108. Mathematics Grade 7 Constructed-Response Item Classical Statistics

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
1	4	0.00	87.70	4.20	2.80	2.70	2.50	0.07	0.55
2	3	0.00	39.20	17.80	22.90	20.20		0.41	0.70
3	3	0.00	73.30	5.70	5.50	15.50		0.21	0.71

Table 109. Mathematics Grade 8 Selected-Response Item Classical Statistics

Item	Omit %	p-value	Item– Total Corr.
1	0.00%	0.45	0.49
2	0.00%	0.06	0.64
3	0.00%	0.20	0.66
4	0.00%	0.20	0.73
5	0.00%	0.50	0.65
6	0.00%	0.10	0.60
7	1.20%	0.10	0.55
8	0.10%	0.58	0.50
9	0.10%	0.38	0.32
10	0.10%	0.49	0.29
11	0.20%	0.33	0.35
12	1.00%	0.18	0.37
13	0.00%	0.63	0.46
14	0.30%	0.34	0.28
15	0.80%	0.45	0.50
16	0.30%	0.18	0.49
17	0.00%	0.27	0.37
18	1.00%	0.21	0.36
19	0.40%	0.46	0.39
20	0.90%	0.61	0.55
21	0.20%	0.36	0.52
22	0.30%	0.08	0.36
23	0.30%	0.37	0.56
24	0.00%	0.67	0.40
25	0.10%	0.26	0.32
26	0.20%	0.50	0.29
27	0.80%	0.29	0.50
28	0.00%	0.11	0.62

Table 110. Mathematics Grade 8 Constructed-Response Item Classical Statistics

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
1	4	0.00	61.50	18.80	5.90	4.30	9.40	0.20	0.73
2	3	0.00	30.50	22.10	13.30	34.20		0.50	0.65
3	3	0.00	80.80	10.50	6.40	2.40		0.10	0.60

Table 111. ELA Grade 3 Selected-Response Item Classical Statistics

Item	Omit %	p-value	Item– Total Corr.
1	0.10%	0.69	0.57
2	2.30%	0.64	0.54
3	0.10%	0.76	0.60
4	2.00%	0.44	0.55
5	0.20%	0.50	0.51
6	0.60%	0.54	0.57
7	0.80%	0.51	0.60
8	1.30%	0.42	0.61
9	0.90%	0.48	0.49
10	1.00%	0.38	0.51
11	2.50%	0.43	0.43
12	2.00%	0.54	0.47
13	2.30%	0.81	0.54
14	2.80%	0.63	0.59
15	0.00%	0.84	0.49
16	0.20%	0.54	0.56
17	0.30%	0.57	0.64
18	0.30%	0.38	0.58
19	0.30%	0.53	0.56

Table 112. ELA Grade 3 Constructed-Response Item Classical Statistics

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
PCR 1 WE	3	1.15	58.35	34.09	5.70	0.71		0.16	0.67
PCR 1 WKL	3	1.15	48.67	41.52	7.78	0.88		0.20	0.67
PCR 2 WE	3	1.89	60.75	33.72	3.33	0.31		0.14	0.71
PCR 2 WKL	3	1.89	44.71	44.64	7.92	0.84		0.21	0.69

Table 113. ELA Grade 4 Selected-Response Item Classical Statistics

Item	Omit %	p-value	Item– Total Corr.
1	1.20%	0.38	0.40
2	0.80%	0.46	0.48
3	1.50%	0.26	0.32
4	1.80%	0.53	0.65
5	1.10%	0.34	0.46
6	0.00%	0.50	0.41
7	0.10%	0.22	0.39
8	0.00%	0.64	0.60
9	0.10%	0.53	0.46
10	0.10%	0.79	0.59
11	0.30%	0.30	0.47
12	0.20%	0.31	0.48
13	0.10%	0.49	0.55
14	0.30%	0.25	0.36
15	0.30%	0.61	0.64
16	0.00%	0.63	0.50
17	0.10%	0.52	0.48
18	0.50%	0.72	0.59
19	0.10%	0.60	0.54
20	0.20%	0.47	0.54
21	0.10%	0.48	0.44

Table 114. ELA Grade 4 Constructed-Response Item Classical Statistics

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
PCR 1 WE	3	0.49	39.36	39.24	16.85	4.05		0.29	0.75
PCR 1 WKL	3	0.49	27.13	51.50	17.56	3.32		0.32	0.74
PCR 2 WE	4	0.90	32.87	40.98	22.80	2.13	0.33	0.24	0.78
PCR 2 WKL	3	0.90	28.27	45.31	22.95	2.58		0.33	0.73

Table 115. ELA Grade 5 Selected-Response Item Classical Statistics

Item	Omit %	p-value	Item– Total Corr.
1	0.00%	0.48	0.36
2	0.00%	0.52	0.37
3	0.20%	0.55	0.49
4	0.00%	0.34	0.32
5	0.00%	0.59	0.47
6	0.10%	0.52	0.56
7	0.10%	0.73	0.53
8	0.10%	0.47	0.56
9	0.10%	0.52	0.40
10	0.50%	0.28	0.33
11	0.30%	0.31	0.33
12	0.10%	0.48	0.32
13	0.10%	0.62	0.48
14	0.40%	0.24	0.36
15	0.70%	0.36	0.56
16	0.20%	0.56	0.55
17	0.00%	0.41	0.46
18	0.00%	0.27	0.39
19	0.00%	0.36	0.32
20	0.10%	0.66	0.33

Table 116. ELA Grade 5 Constructed-Response Item Classical Statistics

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
PCR 1 WE	4	0.48	55.65	34.05	9.05	0.68	0.09	0.14	0.72
PCR 1 WKL	3	0.48	33.89	41.34	22.74	1.54		0.31	0.74
PCR 2 WE	3	0.54	30.97	37.72	24.11	6.65		0.35	0.79
PCR 2 WKL	3	0.54	30.31	37.80	24.42	6.93		0.36	0.78

Table 117. ELA Grade 6 Selected-Response Item Classical Statistics

Item	Omit %	p-value	Item– Total Corr.
1	0.00%	0.36	0.45
2	0.00%	0.42	0.46
3	0.00%	0.29	0.40
4	0.10%	0.30	0.52
5	0.00%	0.69	0.46
6	0.00%	0.50	0.47
7	0.00%	0.62	0.53
8	0.00%	0.47	0.49
9	0.20%	0.52	0.41
10	0.10%	0.45	0.53
11	0.00%	0.44	0.52
12	0.10%	0.55	0.66
13	0.20%	0.82	0.50
14	0.50%	0.38	0.55
15	0.40%	0.30	0.24
16	0.40%	0.25	0.47
17	0.10%	0.63	0.47
18	0.10%	0.34	0.30
19	0.10%	0.38	0.51
20	0.10%	0.34	0.48
21	0.20%	0.32	0.51
22	0.20%	0.42	0.54

Table 118. ELA Grade 6 Constructed-Response Item Classical Statistics

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
PCR 1 WE	4	0.56	37.35	19.97	23.97	12.47	5.69	0.32	0.83
PCR 1 WKL	3	0.56	32.92	28.70	24.47	13.36		0.39	0.84
PCR 2 WE	4	0.67	32.24	33.40	26.72	5.95	1.01	0.27	0.81
PCR 2 WKL	3	0.67	32.43	30.38	27.06	9.46		0.38	0.81

Table 119. ELA Grade 7 Selected-Response Item Classical Statistics

Item	Omit %	p-value	Item– Total Corr.
1	0.00%	0.35	0.36
2	0.00%	0.44	0.35
3	0.00%	0.38	0.50
4	0.00%	0.61	0.53
5	0.00%	0.49	0.47
6	0.00%	0.67	0.41
7	0.10%	0.30	0.33
8	0.10%	0.59	0.43
9	0.10%	0.55	0.52
10	0.20%	0.31	0.49
11	0.20%	0.40	0.55
12	0.20%	0.51	0.38
13	0.20%	0.38	0.41
14	0.20%	0.30	0.49
15	0.20%	0.36	0.56
16	0.20%	0.41	0.54
17	0.10%	0.61	0.55
18	0.00%	0.62	0.50
19	0.00%	0.67	0.41
20	0.00%	0.42	0.36
21	0.00%	0.23	0.36
22	0.00%	0.32	0.48

Table 120. ELA Grade 7 Constructed-Response Item Classical Statistics

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
PCR 1 WE	4	0.91	27.80	34.49	20.96	11.14	4.71	0.32	0.82
PCR 1 WKL	3	0.91	27.03	33.30	24.04	14.73		0.42	0.82
PCR 2 WE	4	0.67	33.31	36.15	22.44	6.03	1.40	0.26	0.85
PCR 2 WKL	3	0.67	32.88	32.46	24.64	9.34		0.37	0.83

Table 121. ELA Grade 8 Selected-Response Item Classical Statistics

Item	Omit %	p-value	Item– Total Corr.
1	0.20%	0.53	0.50
2	0.10%	0.32	0.35
3	0.20%	0.35	0.35
4	0.30%	0.39	0.43
5	0.00%	0.38	0.41
6	0.00%	0.50	0.50
7	0.00%	0.39	0.38
8	0.30%	0.62	0.36
9	0.00%	0.48	0.49
10	0.60%	0.40	0.39
11	0.00%	0.41	0.40
12	0.00%	0.46	0.37
13	0.00%	0.67	0.53
14	0.00%	0.27	0.34
15	0.00%	0.67	0.56
16	0.00%	0.71	0.50
17	0.00%	0.32	0.41
18	0.30%	0.41	0.31
19	0.20%	0.41	0.42
20	0.20%	0.48	0.37
21	0.30%	0.56	0.40
22	0.40%	0.28	0.28
23	0.50%	0.34	0.56

Table 122. ELA Grade 8 Constructed-Response Item Classical Statistics

Item	Max Points	Omit %	0%	1%	2%	3%	4%	p-value	Item-Total Corr.
PCR 1 WE	4	1.24	28.30	29.89	26.10	11.57	2.91	0.33	0.86
PCR 1 WKL	3	1.24	25.39	29.31	29.23	14.82		0.45	0.85
PCR 2 WE	4	0.92	23.76	30.61	25.73	13.38	5.59	0.36	0.86
PCR 2 WKL	3	0.92	22.59	30.73	27.68	18.09		0.47	0.85

Table 123. CSLA Grade 3 Selected-Response Item Classical Statistics

Item	Omit %	Item Mean	Item–Total Corr.
1	1%	1.19	0.49
2	1%	0.80	0.43
3	1%	1.17	0.56
4	1%	0.55	0.41
5	1%	1.01	0.45
6	5%	0.80	0.46
7	6%	0.99	0.62
8	6%	0.97	0.59
9	6%	0.85	0.55
10	1%	1.27	0.51
11	1%	1.19	0.62
12	1%	0.78	0.51
13	0%	0.59	0.34
14	1%	0.88	0.50
15	3%	0.63	0.42
16	3%	0.51	0.42
17	3%	0.43	0.31
18	3%	0.72	0.50
19	3%	0.42	0.37

Table 124. CSLA Grade 3 Constructed-Response Item Classical Statistics

Item	Max Points	Omit %	0%	1%	2%	3%	Item Mean	Item-Total Corr.
PCR 1 WE	3	0	40	42	15	3	0.80	0.68
PCR 1 WKL	3	0	31	36	30	2	1.04	0.71
PCR 2 WE	3	0	28	37	21	13	1.19	0.62
PCR 2 WKL	3	0	27	33	25	14	1.27	0.62

Table 125. CSLA Grade 4 Selected-Response Item Classical Statistics

Item	Omit %	Item Mean	Item–Total Corr.
1	0%	0.92	0.51
2	0%	0.81	0.46
3	0%	1.04	0.50
4	0%	0.88	0.53
5	0%	0.37	0.32
6	0%	0.92	0.46
7	4%	0.44	0.18
8	4%	0.43	0.13
9	5%	0.48	0.40
10	5%	0.42	0.32
11	0%	1.36	0.49
12	0%	1.20	0.53
13	0%	1.11	0.54
14	0%	1.13	0.48
15	0%	0.73	0.50
16	1%	0.52	0.34
17	1%	0.55	0.28
18	1%	1.02	0.53
19	1%	0.88	0.52
20	1%	0.46	0.29
21	1%	0.86	0.43

Table 126. CSLA Grade 4 Constructed-Response Item Classical Statistics

Item	Max Points	Omit %	0%	1%	2%	3%	4%	Item Mean	Item-Total Corr.
PCR 1 WE	4	0	25	30	38	7	1	1.29	0.74
PCR 1 WKL	3	0	47	29	19	4	0	0.81	0.70
PCR 2 WE	3	0	42	13	21	24	0	1.26	0.62
PCR 2 WKL	3	0	54	16	17	13	0	0.89	0.59

Table 127. Mathematics Correlations Between Subclaims

Grade	Subclaim	B	C	D	Full Test
3	A	0.793	0.789	0.723	0.955
	B		0.716	0.651	0.870
	C			0.701	0.896
	D				0.833
4	A	0.726	0.758	0.729	0.958
	B		0.679	0.624	0.817
	C			0.666	0.860
	D				0.850
5	A	0.720	0.736	0.770	0.954
	B		0.624	0.662	0.817
	C			0.695	0.850
	D				0.880
6	A	0.785	0.791	0.734	0.946
	B		0.723	0.668	0.876
	C			0.709	0.899
	D				0.851
7	A	0.699	0.730	0.734	0.941
	B		0.634	0.662	0.824
	C			0.665	0.847
	D				0.869
8	A	0.648	0.683	0.633	0.917
	B		0.612	0.583	0.823
	C			0.621	0.846
	D				0.795

Table 128. Correlations between Reading and Writing Claim Scores

Content Area	Grade	Correlation
ELA	3	0.639
	4	0.686
	5	0.655
	6	0.712
	7	0.677
	8	0.711
CSLA	3	0.647
	4	0.648

Table 129. ELA Correlations Between Subclaims

Grade	Subclaim	RI	RV	WE	WKL	Full Test
3	RL	0.724	0.715	0.607	0.579	0.905
	RI		0.660	0.538	0.528	0.865
	RV			0.476	0.483	0.811
	WE				0.765	0.791
	WKL					0.743
4	RL	0.692	0.644	0.689	0.639	0.889
	RI		0.650	0.563	0.549	0.851
	RV			0.506	0.496	0.762
	WE				0.841	0.860
	WKL					0.806
5	RL	0.623	0.507	0.511	0.528	0.795
	RI		0.539	0.630	0.623	0.864
	RV			0.426	0.443	0.676
	WE				0.872	0.861
	WKL					0.838
6	RL	0.715	0.573	0.590	0.604	0.824
	RI		0.647	0.705	0.707	0.902
	RV			0.497	0.509	0.712
	WE				0.934	0.897
	WKL					0.886
7	RL	0.700	0.613	0.685	0.677	0.875
	RI		0.646	0.572	0.584	0.835
	RV			0.481	0.496	0.735
	WE				0.946	0.888
	WKL					0.878
8	RL	0.653	0.592	0.560	0.573	0.795
	RI		0.588	0.723	0.721	0.893
	RV			0.467	0.480	0.690
	WE				0.952	0.906
	WKL					0.897

Table 130. CSLA Correlations Between Subclaims

Grade	Subclaim	RI	RV	WE	WKL	Full Test
3	RL	0.665	0.612	0.647	0.507	0.890
	RI		0.597	0.498	0.397	0.802
	RV			0.467	0.400	0.749
	WE				0.643	0.834
	WKL					0.687
4	RL	0.582	0.611	0.680	0.478	0.887
	RI		0.485	0.446	0.332	0.735
	RV			0.476	0.373	0.705
	WE				0.651	0.864
	WKL					0.684

Table 131. Correlations Between Mathematics and ELA Scale Scores

Grade	N	Correlation
3	62,843	0.79
4	64,607	0.76
5	65,188	0.74
6	63,402	0.78
7	59,653	0.75
8	48,901	0.73

Note: Samples include only students with valid scores on both assessments.

Table 132. Number of Items Field Tested

Content Area		Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
MATH	Number of Field Test Forms	11	11	14	13	13	13
	Number of Items Field Tested	93	86	98	91	87	84
ELA	Number of Field Test Forms	8	8	8	8	8	8
	Number of Items Field Tested	76	66	57	60	78	73
CSLA	Number of Field Test Forms	4	2	n/a	n/a	n/a	n/a
	Number of Items Field Tested	42	22				

Table 133. Data Review Outcomes

Content Area			Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
MATH	Number of Items Field Tested		93	86	98	91	87	84
	Number of Items Flagged and Reviewed		23	15	20	27	22	44
	Data Review Outcome	Accept	22	14	17	24	20	42
ELA	Number of Items Field Tested		76	66	57	60	78	73
	Number of Items Flagged and Reviewed		34	37	40	35	41	41
	Data Review Outcome	Accept	20	25	34	33	37	29
CSLA	Number of Items Field Tested		42	22	n/a	n/a	n/a	n/a
	Number of Items Flagged and Reviewed		9	3				
	Data Review Outcome	Accept	8	3				
		Reject	1	0				