

CMAS Mathematics & ELA (including CSLA)

Technical Report 2019 – 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	0.87	0.76	0.61		0.51			0.91
	4	0.88	0.67	0.72		0.61			0.92
	5	0.86	0.64	0.72		0.67			0.91
	6	0.80	0.67	0.74		0.57			0.90
	7	0.83	0.58	0.73		0.69			0.90
	8	0.81	0.59	0.64		0.67			0.88
ELA	3	0.71	0.76	0.61	0.88	0.63	0.73	0.72	0.89
	4	0.72	0.76	0.53	0.87	0.71	0.80	0.76	0.89
	5	0.68	0.72	0.42	0.84	0.80	0.73	0.85	0.89
	6	0.68	0.75	0.51	0.86	0.71	0.77	0.76	0.87
	7	0.76	0.72	0.56	0.87	0.84	0.85	0.83	0.89
	8	0.73	0.75	0.52	0.87	0.85	0.85	0.83	0.88
CSLA	3	0.77	0.54	0.67	0.86	0.51	0.75	0.67	0.85
	4	0.76	0.54	0.49	0.82	0.56	0.77	0.66	0.84

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	56,168	743.41	34.62	650	850	0.91
IEP	6,392	708.16	36.52	650	850	0.92
No Accommodation	47,539	748.04	33.36	650	850	0.90
Accommodation	15,021	713.75	33.29	650	850	0.90
Am. Indian/Alaska Native	398	722.42	34.05	650	811	0.91
Asian	1,901	758.18	37.51	650	850	0.91
Black	2,856	723.27	35.25	650	846	0.91
Hispanic	21,379	726.35	34.31	650	850	0.91
White	32,782	748.84	34.35	650	850	0.90
Hawaiian/Pacific Islander	160	730.13	37.59	650	815	0.92
Two or More Races	3,056	744.05	36.24	650	850	0.92
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	34,819	751.50	34.05	650	850	0.90
Economic Disadvantage	27,741	725.13	33.89	650	850	0.91
Female	30,734	739.16	35.50	650	850	0.91
Male	31,826	740.44	37.27	650	850	0.92
Language Proficiency NA	50,621	743.51	35.75	650	850	0.91
Language Proficiency NEP	2,708	698.65	30.53	650	818	0.89
Language Proficiency LEP	7,864	726.64	30.62	650	850	0.90
Language Proficiency FEP	1,367	759.96	29.58	659	850	0.87
Not Migrant	62,326	739.90	36.41	650	850	0.92
Migrant	234	715.51	31.82	650	803	0.90

*n-count less than 16

Table 5. Mathematics Grade 4 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	57,610	738.28	31.21	650	850	0.92
IEP	6,864	706.53	28.62	650	850	0.91
No Accommodation	49,866	741.75	30.50	650	850	0.92
Accommodation	14,608	711.50	27.69	650	850	0.90
Am. Indian/Alaska Native	401	721.05	29.04	650	806	0.91
Asian	1,956	753.32	33.82	650	850	0.93
Black	2,974	721.29	30.64	650	850	0.92
Hispanic	22,532	722.31	29.32	650	850	0.91
White	33,506	743.30	31.24	650	850	0.92
Hawaiian/Pacific Islander	168	727.75	31.70	650	805	0.92
Two or More Races	2,904	739.67	32.01	650	846	0.92
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	35,805	745.64	30.97	650	850	0.92
Economic Disadvantage	28,669	721.47	29.09	650	850	0.91
Female	31,338	733.55	31.39	650	850	0.92
Male	33,136	736.17	33.38	650	850	0.93
Language Proficiency NA	51,847	738.35	32.13	650	850	0.92
Language Proficiency NEP	2,096	698.95	23.97	650	814	0.85
Language Proficiency LEP	7,488	716.61	25.04	650	824	0.88
Language Proficiency FEP	3,043	745.83	27.46	653	850	0.90
Not Migrant	64,242	734.98	32.44	650	850	0.92
Migrant	232	711.76	26.80	650	793	0.88

*n-count less than 16

Table 6. Mathematics Grade 5 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	58,790	741.22	32.85	650	850	0.91
IEP	7,127	707.74	27.29	650	839	0.88
No Accommodation	51,799	744.19	32.39	650	850	0.91
Accommodation	14,118	713.44	27.97	650	846	0.89
Am. Indian/Alaska Native	424	723.13	32.41	650	821	0.91
Asian	2,042	757.76	35.53	650	850	0.92
Black	2,992	723.42	29.77	650	842	0.90
Hispanic	23,157	724.73	29.80	650	850	0.90
White	34,027	746.22	33.37	650	850	0.91
Hawaiian/Pacific Islander	185	734.60	34.37	662	832	0.91
Two or More Races	3,061	742.09	33.99	650	850	0.92
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	36,674	748.39	33.31	650	850	0.91
Economic Disadvantage	29,243	724.07	29.55	650	850	0.90
Female	32,012	736.82	32.98	650	850	0.91
Male	33,905	738.34	34.78	650	850	0.92
Language Proficiency NA	52,853	741.02	33.91	650	850	0.92
Language Proficiency NEP	1,206	702.64	24.20	650	801	0.84
Language Proficiency LEP	7,026	714.63	25.10	650	846	0.86
Language Proficiency FEP	4,832	742.35	28.93	650	850	0.89
Not Migrant	65,707	737.67	33.93	650	850	0.92
Migrant	210	716.18	25.29	654	806	0.86

*n-count less than 16

Table 7. Mathematics Grade 6 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	57,902	735.94	29.83	650	850	0.90
IEP	6,748	702.82	24.88	650	848	0.84
No Accommodation	55,789	736.62	29.77	650	850	0.90
Accommodation	8,861	706.43	25.86	650	842	0.86
Am. Indian/Alaska Native	432	719.26	26.94	651	796	0.88
Asian	1,999	751.20	34.66	650	850	0.91
Black	2,974	717.16	27.39	650	817	0.87
Hispanic	22,708	719.99	27.62	650	850	0.87
White	33,387	741.15	29.66	650	850	0.89
Hawaiian/Pacific Islander	181	720.86	28.99	650	796	0.87
Two or More Races	2,949	736.09	31.44	650	850	0.90
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	36,577	742.94	30.02	650	850	0.90
Economic Disadvantage	28,073	718.86	26.80	650	850	0.86
Female	31,442	732.46	30.30	650	850	0.90
Male	33,208	732.50	31.75	650	850	0.91
Language Proficiency NA	51,876	736.20	30.68	650	850	0.90
Language Proficiency NEP	1,039	695.59	22.92	650	782	0.74
Language Proficiency LEP	5,494	706.04	22.17	650	821	0.78
Language Proficiency FEP	6,241	731.00	26.14	650	850	0.87
Not Migrant	64,441	732.56	31.04	650	850	0.90
Migrant	209	708.40	25.07	650	789	0.83

*n-count less than 16

Table 8. Mathematics Grade 7 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	56,557	738.00	28.26	650	850	0.90
IEP	6,233	706.91	24.52	650	811	0.84
No Accommodation	54,869	738.39	28.28	650	850	0.90
Accommodation	7,921	710.87	25.60	650	821	0.86
Am. Indian/Alaska Native	441	721.10	27.32	650	792	0.88
Asian	1,984	753.14	31.37	650	850	0.92
Black	2,746	720.07	27.56	650	813	0.88
Hispanic	21,785	722.69	26.51	650	850	0.88
White	33,010	743.00	27.69	650	850	0.90
Hawaiian/Pacific Islander	162	727.52	28.39	650	793	0.89
Two or More Races	2,643	739.38	29.99	650	850	0.91
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	36,318	744.44	28.06	650	850	0.90
Economic Disadvantage	26,472	721.85	26.01	650	850	0.87
Female	30,331	735.36	28.74	650	850	0.90
Male	32,459	734.51	30.03	650	850	0.91
Language Proficiency NA	50,587	738.34	29.05	650	850	0.90
Language Proficiency NEP	1,292	701.04	22.10	650	779	0.78
Language Proficiency LEP	4,942	710.94	21.60	650	799	0.78
Language Proficiency FEP	5,969	733.13	25.11	650	850	0.88
Not Migrant	62,609	734.97	29.41	650	850	0.90
Migrant	181	716.41	24.44	650	777	0.84

*n-count less than 16

Table 9. Mathematics Grade 8 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	53,211	740.08	39.72	650	850	0.88
IEP	5,652	695.14	31.45	650	850	0.82
No Accommodation	51,808	740.33	39.77	650	850	0.88
Accommodation	7,055	702.27	35.57	650	850	0.85
Am. Indian/Alaska Native	414	718.85	37.24	650	821	0.85
Asian	2,006	763.33	42.25	650	850	0.90
Black	2,615	715.41	37.88	650	849	0.86
Hispanic	20,861	718.90	36.24	650	850	0.85
White	30,360	747.09	39.50	650	850	0.88
Hawaiian/Pacific Islander	167	723.02	36.93	650	810	0.86
Two or More Races	2,410	742.34	41.83	650	850	0.89
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	34,461	748.71	39.87	650	850	0.88
Economic Disadvantage	24,402	717.49	35.72	650	850	0.84
Female	28,393	738.20	39.44	650	850	0.88
Male	30,470	733.50	42.62	650	850	0.89
Language Proficiency NA	49,203	740.62	40.69	650	850	0.88
Language Proficiency NEP	1,222	686.06	26.22	650	838	0.71
Language Proficiency LEP	4,348	701.21	28.41	650	838	0.75
Language Proficiency FEP	4,090	728.92	33.05	650	850	0.84
Not Migrant	58,697	735.85	41.17	650	850	0.89
Migrant	166	705.55	34.10	650	801	0.83

*n-count less than 16

Table 10. ELA Grade 3 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	54,555	744.23	38.95	650	850	0.88
IEP	6,241	702.52	36.59	650	850	0.87
No Accommodation	54,383	744.32	39.08	650	850	0.88
Accommodation	6,413	702.84	35.14	650	850	0.86
Am. Indian/Alaska Native	401	724.15	38.16	650	837	0.88
Asian	1,871	751.52	42.91	650	850	0.90
Black	2,842	723.65	37.72	650	846	0.87
Hispanic	19,694	724.69	38.03	650	850	0.88
White	32,747	749.60	39.16	650	850	0.88
Hawaiian/Pacific Islander	157	726.40	38.29	650	809	0.87
Two or More Races	3,054	745.87	40.21	650	850	0.89
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	34,643	752.68	38.57	650	850	0.88
Economic Disadvantage	26,153	723.07	37.23	650	850	0.87
Female	29,863	744.00	40.97	650	850	0.89
Male	30,933	736.03	40.11	650	850	0.89
Language Proficiency NA	50,636	744.29	39.97	650	850	0.89
Language Proficiency NEP	1,908	686.21	25.86	650	809	0.71
Language Proficiency LEP	6,886	719.00	32.47	650	850	0.83
Language Proficiency FEP	1,366	759.55	32.08	656	850	0.82
Not Migrant	60,582	740.06	40.71	650	850	0.89
Migrant	214	708.68	32.29	650	807	0.83

*n-count less than 16

Table 11. ELA Grade 4 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	56,528	749.95	33.35	650	850	0.88
IEP	6,730	706.33	33.04	650	850	0.88
No Accommodation	56,167	749.86	33.67	650	850	0.88
Accommodation	7,091	709.27	32.73	650	850	0.88
Am. Indian/Alaska Native	400	731.66	34.45	650	850	0.89
Asian	1,935	757.00	35.52	650	850	0.89
Black	2,971	731.41	35.31	650	850	0.89
Hispanic	21,362	731.45	34.32	650	850	0.89
White	33,488	754.45	33.71	650	850	0.88
Hawaiian/Pacific Islander	167	738.05	37.29	657	828	0.89
Two or More Races	2,903	750.91	35.35	650	850	0.89
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	35,629	756.84	32.86	650	850	0.87
Economic Disadvantage	27,629	730.44	34.21	650	850	0.89
Female	30,721	750.08	36.06	650	850	0.89
Male	32,537	740.81	35.21	650	850	0.89
Language Proficiency NA	51,851	749.43	35.03	650	850	0.89
Language Proficiency NEP	1,571	690.09	25.00	650	784	0.76
Language Proficiency LEP	6,788	720.94	26.95	650	850	0.82
Language Proficiency FEP	3,048	757.91	25.23	650	850	0.78
Not Migrant	63,044	745.42	35.89	650	850	0.89
Migrant	214	713.88	34.06	650	817	0.89

*n-count less than 16

Table 12. ELA Grade 5 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	58,650	751.12	32.10	650	850	0.86
IEP	7,107	711.30	28.88	650	850	0.83
No Accommodation	58,115	751.02	32.37	650	850	0.86
Accommodation	7,642	714.81	29.60	650	850	0.83
Am. Indian/Alaska Native	426	732.66	33.03	650	847	0.87
Asian	2,021	758.93	33.93	650	850	0.87
Black	2,980	732.94	32.54	650	850	0.86
Hispanic	23,022	733.87	31.67	650	850	0.85
White	34,037	755.81	32.53	650	850	0.86
Hawaiian/Pacific Islander	186	741.67	35.87	650	846	0.88
Two or More Races	3,056	752.13	33.56	650	850	0.87
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	36,608	757.76	32.04	650	850	0.86
Economic Disadvantage	29,149	733.07	31.51	650	850	0.85
Female	31,945	751.86	34.09	650	850	0.87
Male	33,812	742.05	33.40	650	850	0.87
Language Proficiency NA	52,858	750.98	33.42	650	850	0.87
Language Proficiency NEP	1,051	700.00	24.33	650	794	0.71
Language Proficiency LEP	7,018	718.45	25.33	650	826	0.74
Language Proficiency FEP	4,830	752.63	25.84	650	850	0.80
Not Migrant	65,556	746.90	34.07	650	850	0.87
Migrant	201	719.65	28.81	650	816	0.81

*n-count less than 16

Table 13. ELA Grade 6 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	57,755	747.20	30.78	650	850	0.88
IEP	6,738	707.67	28.38	650	841	0.85
No Accommodation	58,155	746.48	31.31	650	850	0.88
Accommodation	6,338	711.79	29.93	650	850	0.87
Am. Indian/Alaska Native	434	729.29	30.33	650	813	0.87
Asian	1,980	758.21	32.36	650	850	0.89
Black	2,969	729.25	33.06	650	838	0.89
Hispanic	22,593	730.45	30.60	650	845	0.87
White	33,374	751.79	31.01	650	850	0.88
Hawaiian/Pacific Islander	181	734.09	30.47	650	821	0.87
Two or More Races	2,942	747.57	32.42	650	850	0.89
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	36,500	753.82	30.61	650	850	0.88
Economic Disadvantage	27,993	729.05	30.26	650	845	0.87
Female	31,354	748.60	31.94	650	850	0.89
Male	33,139	737.84	32.82	650	850	0.89
Language Proficiency NA	51,877	747.01	32.17	650	850	0.89
Language Proficiency NEP	887	694.53	23.84	650	778	0.75
Language Proficiency LEP	5,492	712.88	24.56	650	810	0.77
Language Proficiency FEP	6,237	743.75	25.74	650	849	0.83
Not Migrant	64,291	743.15	32.82	650	850	0.89
Migrant	202	716.41	28.52	650	795	0.84

*n-count less than 16

Table 14. ELA Grade 7 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	56,418	749.46	36.76	650	850	0.89
IEP	6,227	704.79	30.10	650	850	0.84
No Accommodation	56,811	748.64	37.25	650	850	0.89
Accommodation	5,834	709.74	32.68	650	836	0.86
Am. Indian/Alaska Native	439	727.51	37.27	650	843	0.89
Asian	1,981	763.80	38.65	650	850	0.90
Black	2,751	729.40	37.07	650	850	0.89
Hispanic	21,647	730.64	35.37	650	850	0.88
White	33,006	754.36	37.08	650	850	0.89
Hawaiian/Pacific Islander	159	739.13	40.91	650	834	0.90
Two or More Races	2,644	751.78	38.87	650	850	0.90
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	36,262	756.52	36.83	650	850	0.89
Economic Disadvantage	26,383	729.20	35.09	650	850	0.88
Female	30,265	753.45	37.23	650	850	0.90
Male	32,380	737.13	38.09	650	850	0.90
Language Proficiency NA	50,600	749.38	38.15	650	850	0.90
Language Proficiency NEP	1,124	691.94	24.42	650	795	0.71
Language Proficiency LEP	4,947	712.06	26.71	650	813	0.75
Language Proficiency FEP	5,974	745.30	31.02	650	850	0.85
Not Migrant	62,466	745.09	38.53	650	850	0.90
Migrant	179	717.78	34.74	650	847	0.87

*n-count less than 16

Table 15. ELA Grade 8 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	53,146	749.19	38.74	650	850	0.89
IEP	5,662	703.68	30.57	650	832	0.83
No Accommodation	53,503	748.30	39.15	650	850	0.89
Accommodation	5,305	709.60	34.78	650	850	0.87
Am. Indian/Alaska Native	414	733.40	36.37	650	850	0.88
Asian	2,003	766.09	39.14	650	850	0.89
Black	2,622	730.04	39.51	650	850	0.89
Hispanic	20,801	730.34	37.39	650	850	0.88
White	30,357	754.23	38.85	650	850	0.89
Hawaiian/Pacific Islander	166	734.29	39.48	650	828	0.89
Two or More Races	2,417	752.21	40.75	650	850	0.90
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	34,409	756.02	38.82	650	850	0.89
Economic Disadvantage	24,399	728.99	36.97	650	850	0.88
Female	28,366	754.78	38.31	650	850	0.89
Male	30,442	735.51	39.94	650	850	0.90
Language Proficiency NA	49,248	749.57	39.64	650	850	0.90
Language Proficiency NEP	1,102	687.50	23.42	650	807	0.64
Language Proficiency LEP	4,349	709.31	27.29	650	812	0.74
Language Proficiency FEP	4,109	740.72	31.73	650	850	0.84
Not Migrant	58,646	744.90	40.31	650	850	0.90
Migrant	162	712.85	36.35	650	836	0.86

*n-count less than 16

Table 16. CSLA Grade 3 Performance by Subgroup

Subgroup	N	Mean	SD	Min	Max	Alpha
No IEP	1,551	735.81	24.63	650	832	0.87
IEP	159	708.34	22.76	650	767	0.77
No Accommodation	1,532	735.47	25.15	650	832	0.87
Accommodation	178	714.24	22.62	650	792	0.82
Am. Indian/Alaska Native*	n/a	n/a	n/a	n/a	n/a	n/a
Asian						
Black						
Hispanic	1,698	733.21	25.75	650	832	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	243	727.92	25.69	650	812	0.88
Economic Disadvantage	1,467	734.15	25.63	650	832	0.88
Female	853	736.27	25.21	650	832	0.87
Male	857	730.27	25.90	650	832	0.88
Language Proficiency NA						
Language Proficiency NEP	705	722.13	24.37	650	792	0.86
Language Proficiency LEP	1,005	741.07	23.71	650	832	0.86
Language Proficiency FEP						
Not Migrant	1,696	733.34	25.63	650	832	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	1,046	731.30	22.87	650	804	0.84
IEP	116	708.09	18.39	661	772	0.73
No Accommodation	995	731.26	23.32	650	804	0.84
Accommodation	167	715.37	19.78	672	760	0.78
Am. Indian/Alaska Native*	n/a	n/a	n/a	n/a	n/a	n/a
Asian						
Black						
Hispanic	1,154	728.95	23.46	650	804	0.85
White*	n/a	n/a	n/a	n/a	n/a	n/a
Hawaiian/Pacific Islander						
Two or More Races						
Missing						
No Economic Disadvantage	181	725.53	25.38	650	804	0.85
Economic Disadvantage	981	729.62	23.10	650	800	0.85
Female	606	733.45	22.25	650	804	0.84
Male	556	724.10	23.88	650	800	0.85
Language Proficiency NA*	n/a	n/a	n/a	n/a	n/a	n/a
Language Proficiency NEP	461	718.42	22.77	650	793	0.82
Language Proficiency LEP	701	735.93	21.31	661	804	0.83
Language Proficiency FEP						
Not Migrant	1,153	729.06	23.47	650	804	0.85
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	1.95	1.21	1.56	1.47		
	4	2.11	1.03	1.56	1.39		
	5	2.09	1.20	1.38	1.46		
	6	2.03	1.47	1.35	1.56		
	7	2.09	1.27	1.50	1.51		
	8	1.96	1.64	1.22	1.67		
ELA	3	1.83	1.91	1.53	1.95	0.64	2.20
	4	1.96	1.96	1.49	2.39	0.67	2.78
	5	2.18	2.08	1.58	2.52	0.77	2.68
	6	2.14	2.13	1.49	3.05	0.81	3.52
	7	1.99	2.46	1.75	2.39	0.71	3.21
	8	2.16	2.30	1.75	2.47	0.75	3.38
CSLA	3	2.08	1.68	1.66	3.45	1.05	3.70
	4	2.23	2.11	1.51	3.38	0.96	3.79

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	0.71	0.61	0.24	0.49
	4	0.76	0.67	0.25	0.56
	5	0.73	0.63	0.24	0.52
	6	0.73	0.63	0.24	0.51
	7	0.74	0.64	0.26	0.52
	8	0.68	0.58	0.23	0.45
ELA	3	0.71	0.61	0.25	0.48
	4	0.71	0.60	0.25	0.47
	5	0.71	0.61	0.29	0.46
	6	0.72	0.62	0.26	0.48
	7	0.70	0.59	0.22	0.48
	8	0.71	0.61	0.23	0.49
CSLA	3	0.73	0.63	0.28	0.48
	4	0.70	0.59	0.28	0.43

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	0.91	0.90	0.90
	4	0.95	0.91	0.92	0.97
	5	0.94	0.91	0.91	0.92
	6	0.94	0.90	0.91	0.95
	7	0.95	0.90	0.91	0.95
	8	0.92	0.89	0.89	0.93
ELA	3	0.93	0.90	0.90	0.95
	4	0.96	0.92	0.89	0.88
	5	0.96	0.91	0.89	0.93
	6	0.96	0.91	0.89	0.91
	7	0.95	0.92	0.90	0.81
	8	0.94	0.92	0.90	0.86
CSLA	3	0.96	0.90	0.90	0.96
	4	0.94	0.88	0.91	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	0.91	0.86	0.85	0.93
	4	0.93	0.88	0.88	0.96
	5	0.92	0.87	0.88	0.91
	6	0.91	0.86	0.88	0.94
	7	0.93	0.87	0.87	0.94
	8	0.89	0.85	0.85	0.91
ELA	3	0.91	0.87	0.86	0.95
	4	0.94	0.89	0.85	0.85
	5	0.94	0.87	0.84	0.91
	6	0.94	0.88	0.85	0.89
	7	0.93	0.88	0.86	0.79
	8	0.92	0.88	0.86	0.84
CSLA	3	0.94	0.86	0.86	0.95
	4	0.92	0.83	0.87	0.96

Table 22. Mathematics Grade 3 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non- Adjacent
Item 1, Part A	2	6134	92.5	7.5	0.0
Item 1, Part B	2	6134	90.1	9.6	0.4
Item 2, Part A	2	5545	95.1	4.9	0.1
Item 3, Part C	4	5545	90.4	8.8	0.8
Item 4, Part B	3	5545	92.0	7.5	0.5
Item 5, Part B	2	5545	95.2	4.4	0.5

Table 23. Mathematics Grade 4 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1, Part A	2	5838	96.2	3.4	0.4
Item 2, Part C	2	6368	94.9	5.0	0.1
Item 3, Part B	2	5836	92.7	7.0	0.3
Item 4, Part D	3	5836	87.9	10.5	1.6
Item 5, Part B	3	5837	92.5	6.4	1.0

Table 24. Mathematics Grade 5 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1	4	6554	77.5	21.0	1.5
Item 2	3	6555	88.3	10.8	0.9
Item 3, Part A	3	6553	85.1	14.1	0.8
Item 3, Part B	3	6553	86.8	12.2	1.0
Item 4	3	6553	90.5	9.2	0.3
Item 5, Part B	3	6040	84.4	14.8	0.7

Table 25. Mathematics Grade 6 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1	3	6472	87.7	11.4	1.0
Item 2	4	6473	78.0	19.7	2.3
Item 3	4	6474	84.3	13.7	2.1
Item 4	3	6474	81.2	17.5	1.3
Item 5, Part A	2	6471	93.7	5.0	1.3
Item 5, Part B	4	6471	86.1	12.4	1.5

Table 26. Mathematics Grade 7 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1, Part A	3	5814	82.9	15.8	1.3
Item 2	3	6305	81.8	17.3	0.9
Item 3	3	6305	90.0	7.9	2.1
Item 4, Part A	3	6306	86.3	10.3	3.5
Item 4, Part B	3	6306	90.0	8.5	1.5
Item 5	4	6306	79.5	18.9	1.6

Table 27. Mathematics Grade 8 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1	3	5928	90.4	9.0	0.5
Item 18, Part A	4	5930	89.2	9.6	1.3
Item 18, Part B	2	5930	90.0	9.8	0.2
Item 19	4	5930	86.1	11.7	2.2
Item 20	3	5930	92.4	7.3	0.2
Item 28, Part A	2	5929	92.2	7.6	0.2
Item 28, Part B	2	5929	93.8	5.7	0.5

Table 28. ELA Grade 3 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	3	11264	80.4	19.4	0.2	0.84	0.05	0.84
PCR 1 WKL	3	11264	80.0	19.8	0.3	0.83	0.06	0.84
PCR 2 WE	3	6064	81.8	18.0	0.2	0.80	0.00	0.80
PCR 2 WKL	3	6064	80.8	18.9	0.3	0.79	0.01	0.79

Table 29. ELA Grade 4 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	3	30180	80.2	19.5	0.3	0.86	0.01	0.86
PCR 1 WKL	3	30180	80.4	19.3	0.3	0.86	0.01	0.86
PCR 2 WE	4	10599	77.8	22.2	0.0	0.84	0.02	0.84
PCR 2 WKL	3	10599	77.4	22.6	0.0	0.84	0.02	0.84

Table 30. ELA Grade 5 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	4	7929	82.5	17.4	0.1	0.90	0.07	0.90
PCR 1 WKL	3	7929	82.5	17.4	0.1	0.90	0.08	0.90
PCR 2 WE	3	6592	82.6	17.1	0.3	0.87	0.01	0.87
PCR 2 WKL	3	6592	82.2	17.5	0.3	0.87	0.00	0.87

Table 31. ELA Grade 6 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	4	9843	80.7	18.7	0.6	0.93	0.04	0.93
PCR 1 WKL	3	9843	80.6	18.9	0.5	0.93	0.03	0.93
PCR 2 WE	4	6458	82.1	17.3	0.6	0.85	0.01	0.85
PCR 2 WKL	3	6458	81.9	17.5	0.6	0.85	0.00	0.85

Table 32. ELA Grade 7 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	4	7849	78.9	20.4	0.7	0.91	0.07	0.91
PCR 1 WKL	3	7849	79.0	20.1	0.9	0.90	0.08	0.91
PCR 2 WE	4	6316	79.5	19.8	0.7	0.87	0.00	0.87
PCR 2 WKL	3	6316	79.6	19.7	0.8	0.87	0.00	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	5956	80.0	19.0	1.0	0.90	0.00	0.90
PCR 1 WKL	3	5956	80.0	19.0	1.0	0.90	0.01	0.90
PCR 2 WE	4	5954	79.7	20.3	0.0	0.91	0.01	0.91
PCR 2 WKL	3	5954	78.5	21.5	0.0	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	173	88.7	11.3	0.0	0.95	0.02	0.95
PCR 1 WKL	3	173	86.3	13.7	0.0	0.94	0.01	0.94
PCR 2 WE	3	173	86.5	13.5	0.0	0.95	0.01	0.95
PCR 2 WKL	3	173	87.1	12.9	0.0	0.95	0.02	0.95

Table 35. CSLA Grade 4 Operational Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent	Kappa	MD	CORR
PCR 1 WE	3	117	94.9	5.1	0.0	0.98	0.03	0.98
PCR 1 WKL	3	117	88.0	12.0	0.0	0.95	0.08	0.95
PCR 2 WE	4	117	86.6	13.4	0.0	0.95	0.02	0.95
PCR 2 WKL	3	117	84.8	15.2	0.0	0.94	0.02	0.94

Table 36. Mathematics Grade 3 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1	3	3000	83.6	15.6	0.7
Item 2	4	3000	85.1	13.4	1.5
Item 3, Part B	2	3000	94.6	5.2	0.2
Item 4	3	3000	86.0	13.5	0.5
Item 5	3	3000	87.7	12.0	0.4
Item 6	4	3000	90.3	9.3	0.4
Item 7	3	3000	84.4	14.4	1.3
Item 8, Part B	3	3000	83.1	15.9	1.0
Item 9	4	3000	94.0	3.7	2.3
Item 10, Part A	2	3000	93.4	6.0	0.6
Item 10, Part B	2	3000	97.9	2.0	0.1
Item 11	4	3000	82.8	16.0	1.1
Item 12	4	3000	85.0	14.1	0.9
Item 13	3	3000	98.8	1.1	0.0
Item 14, Part D	3	3000	96.0	3.5	0.4
Item 15, Part B	2	3000	99.4	0.6	0.0
Item 16, Part C	4	3000	88.4	9.4	2.2
Item 17, Part B	2	3000	91.9	8.0	0.1
Item 18, Part C	4	3000	91.6	6.7	1.6

Table 37. Mathematics Grade 4 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1, Part B	2	3000	95.6	4.3	0.1
Item 2	3	3000	80.3	18.4	1.3
Item 3	3	3000	87.2	12.2	0.6
Item 4, Part A	2	3000	91.8	8.0	0.2
Item 4, Part B	2	3000	90.6	9.3	0.1
Item 5	4	3000	78.2	18.2	3.5
Item 6	4	3000	82.6	15.9	1.6
Item 7, Part B	3	3000	81.1	17.5	1.4
Item 8, Part B	3	3000	86.6	13.1	0.3
Item 9	3	3000	91.7	7.6	0.7
Item 10	3	3000	88.6	10.8	0.6
Item 11	6	3000	85.0	12.6	2.4
Item 12, Part C	4	3000	85.7	13.3	1.0

Table 38. Mathematics Grade 5 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1	3	3000	87.1	12.2	0.7
Item 2	3	3000	83.4	15.9	0.7
Item 3, Part B	2	3000	95.5	4.4	0.1
Item 4, Part B	3	3000	90.2	7.3	2.5
Item 5, Part B	3	3000	91.2	8.4	0.4
Item 6	4	3000	86.2	13.4	0.4
Item 7	4	3000	88.4	10.7	0.9
Item 8	4	3000	81.9	16.3	1.8
Item 9	4	3000	81.7	16.6	1.7
Item 10, Part B	2	2991	93.4	6.2	0.4
Item 11	3	3000	86.7	9.2	4.1
Item 12, Part B	2	3000	93.0	6.7	0.3
Item 13, Part C	4	3000	83.1	14.4	2.5

Table 39. Mathematics Grade 6 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1	3	3000	96.0	3.8	0.2
Item 2, Part B	2	3000	91.0	8.5	0.5
Item 3	4	3000	92.1	7.4	0.5
Item 4, Part B	3	3000	82.4	16.9	0.7
Item 5	4	3000	75.3	21.3	3.4
Item 6	4	3000	82.0	17.0	1.0
Item 7	3	3000	85.4	14.0	0.6
Item 8	3	3000	88.9	10.8	0.2
Item 9, Part A	3	3000	84.3	15.4	0.3
Item 9, Part B	3	3000	88.5	10.8	0.7
Item 10, Part A	3	3000	91.4	7.8	0.8
Item 10, Part B	3	3000	93.0	6.1	0.9

Table 40. Mathematics Grade 7 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1	3	3000	80.8	18.1	1.1
Item 2, Part B	3	3000	90.8	8.5	0.6
Item 3	3	3000	93.1	6.4	0.4
Item 4, Part B	2	3000	90.5	8.9	0.6
Item 5, Part B	3	3000	85.1	14.5	0.4
Item 6	4	3000	78.1	18.9	2.9
Item 7	4	3000	84.5	14.4	1.1
Item 8	3	3000	88.7	10.9	0.4
Item 9	3	3000	84.4	14.7	0.9
Item 10	3	3000	90.5	9.3	0.2
Item 11, Part A	3	3000	87.2	12.1	0.8
Item 11, Part B	3	3000	94.8	4.9	0.3
Item 12, Part A	3	3000	92.6	7.2	0.2
Item 12, Part B	3	3000	91.2	8.4	0.4

Table 41. Mathematics Grade 8 Field Test Rater Agreement Statistics

Item	Max Points	N	Exact	Adjacent	Non-Adjacent
Item 1, Part B	2	3000	94.5	5.5	0.0
Item 2	3	3000	84.4	15.2	0.3
Item 3, Part A	2	3000	96.8	3.2	0.0
Item 3, Part B	2	3000	95.9	4.1	0.0
Item 4, Part A	2	3000	91.6	8.4	0.0
Item 4, Part B	2	3000	93.3	6.7	0.0
Item 5	4	3000	93.7	6.2	0.2
Item 6, Part B	2	2999	98.7	1.3	0.0
Item 6, Part C	2	3000	98.3	1.7	0.0
Item 7	4	3000	86.4	13.3	0.3
Item 8	3	3000	93.4	6.6	0.0
Item 9	3	3000	89.7	9.6	0.6
Item 10	3	3000	86.6	12.6	0.8
Item 11, Part B	4	3000	87.0	12.9	0.0
Item 12, Part A	4	3000	92.3	7.3	0.4
Item 12, Part B	2	3000	90.8	9.0	0.2

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	1988	82.4	17.3	0.3	0.81	0.02	0.81
PCR 1 WKL	3	1988	81.9	17.8	0.3	0.81	0.00	0.81
PCR 2 WE	3	1990	81.7	18.1	0.2	0.84	0.03	0.84
PCR 2 WKL	3	1990	80.9	18.6	0.5	0.82	0.02	0.82
PCR 3 WE	3	1993	80.4	19.4	0.3	0.81	0.04	0.81
PCR 3 WKL	3	1993	80.0	19.9	0.2	0.80	0.05	0.80
PCR 4 WE	3	1986	80.9	19.0	0.1	0.84	0.01	0.84
PCR 4 WKL	3	1986	83.1	16.8	0.1	0.86	0.00	0.86
PCR 5 WE	3	1982	82.4	17.6	0.1	0.83	0.01	0.83
PCR 5 WKL	3	1982	80.7	19.2	0.1	0.81	0.01	0.81
PCR 6 WE	3	1991	79.7	20.3	0.0	0.79	0.01	0.79
PCR 6 WKL	3	1991	80.9	19.1	0.0	0.80	0.00	0.80
PCR 7 WE	3	1983	82.0	17.9	0.1	0.82	0.02	0.82
PCR 7 WKL	3	1983	83.1	16.7	0.2	0.82	0.00	0.82
PCR 8 WE	3	1984	82.0	18.0	0.0	0.81	0.01	0.81
PCR 8 WKL	3	1984	82.3	17.7	0.0	0.82	0.00	0.82

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	1998	86.3	13.7	0.0	0.93	0.02	0.93
PCR 1 WKL	3	1998	84.7	15.3	0.1	0.92	0.02	0.92
PCR 2 WE	3	1997	82.3	17.7	0.0	0.90	0.01	0.90
PCR 2 WKL	3	1997	81.4	18.6	0.0	0.90	0.00	0.90
PCR 3 WE	4	1997	76.8	23.2	0.0	0.85	0.03	0.85
PCR 3 WKL	3	1997	76.5	23.5	0.0	0.84	0.02	0.84
PCR 4 WE	4	1998	78.4	21.4	0.2	0.83	0.03	0.83
PCR 4 WKL	3	1998	76.5	23.4	0.2	0.82	0.04	0.82
PCR 5 WE	3	1998	83.1	16.9	0.0	0.91	0.03	0.91
PCR 5 WKL	3	1998	82.7	17.2	0.1	0.91	0.01	0.91
PCR 6 WE	3	1998	83.7	16.3	0.0	0.91	0.02	0.91
PCR 6 WKL	3	1998	81.7	18.3	0.0	0.90	0.01	0.90
PCR 7 WE	4	1994	76.4	23.6	0.0	0.86	0.00	0.86
PCR 7 WKL	3	1994	75.2	24.8	0.0	0.85	0.01	0.85
PCR 8 WE	4	1999	77.2	22.8	0.0	0.86	0.00	0.86
PCR 8 WKL	3	1999	76.9	23.1	0.0	0.86	0.01	0.86

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	1986	75.3	24.7	0.0	0.87	0.01	0.87
PCR 1 WKL	3	1986	77.1	22.9	0.0	0.88	0.01	0.88
PCR 2 WE	4	1992	75.1	24.9	0.0	0.87	0.00	0.87
PCR 2 WKL	3	1992	76.5	23.5	0.0	0.87	0.00	0.87
PCR 3 WE	4	1986	74.8	25.2	0.0	0.84	0.00	0.84
PCR 3 WKL	3	1986	75.6	24.4	0.0	0.85	0.01	0.85
PCR 4 WE	4	1989	79.0	21.0	0.0	0.84	0.01	0.84
PCR 4 WKL	3	1989	80.1	19.9	0.0	0.84	0.00	0.84
PCR 5 WE	3	1994	78.4	20.1	1.5	0.88	0.00	0.88
PCR 5 WKL	3	1994	82.0	16.8	1.2	0.90	0.01	0.90
PCR 6 WE	3	1991	82.4	16.7	0.9	0.92	0.00	0.92
PCR 6 WKL	3	1991	80.9	18.6	0.5	0.92	0.01	0.92
PCR 7 WE	3	1994	80.9	19.1	0.0	0.88	0.00	0.88
PCR 7 WKL	3	1994	81.3	18.7	0.0	0.89	0.03	0.89
PCR 8 WE	3	1995	82.9	17.1	0.0	0.93	0.00	0.93
PCR 8 WKL	3	1995	81.8	18.2	0.0	0.93	0.00	0.93

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	1993	76.6	23.2	0.2	0.86	0.02	0.86
PCR 1 WKL	3	1993	77.9	21.9	0.2	0.86	0.04	0.86
PCR 2 WE	4	1989	76.5	23.4	0.1	0.85	0.01	0.85
PCR 2 WKL	3	1989	76.4	23.5	0.1	0.84	0.00	0.84
PCR 3 WE	4	1994	77.0	22.9	0.1	0.90	0.04	0.90
PCR 3 WKL	3	1994	78.0	21.9	0.1	0.90	0.03	0.90
PCR 4 WE	4	1997	77.1	22.3	0.6	0.89	0.04	0.89
PCR 4 WKL	3	1997	77.1	22.4	0.5	0.89	0.06	0.89
PCR 5 WE	4	1993	76.5	23.2	0.4	0.83	0.00	0.83
PCR 5 WKL	3	1993	76.1	23.6	0.3	0.83	0.00	0.83
PCR 6 WE	4	1996	78.2	21.5	0.3	0.85	0.02	0.85
PCR 6 WKL	3	1996	78.4	21.4	0.2	0.85	0.01	0.85
PCR 7 WE	4	1997	78.6	21.3	0.1	0.91	0.05	0.91
PCR 7 WKL	3	1997	78.4	21.6	0.1	0.90	0.05	0.91
PCR 8 WE	4	1996	78.0	21.8	0.3	0.89	0.02	0.89
PCR 8 WKL	3	1996	78.0	21.9	0.1	0.90	0.01	0.90

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	1993	76.3	22.7	1.0	0.90	0.03	0.90
PCR 1 WKL	3	1993	75.6	22.8	1.6	0.88	0.01	0.88
PCR 2 WE	4	1990	78.2	21.8	0.0	0.92	0.01	0.92
PCR 2 WKL	3	1990	76.6	23.4	0.0	0.92	0.01	0.92
PCR 3 WE	4	1995	75.2	24.7	0.1	0.89	0.01	0.89
PCR 3 WKL	3	1995	75.6	24.4	0.0	0.89	0.01	0.89
PCR 4 WE	4	1991	76.4	23.6	0.0	0.89	0.01	0.89
PCR 4 WKL	3	1991	75.9	24.1	0.0	0.89	0.03	0.89
PCR 5 WE	4	1997	75.3	24.7	0.0	0.89	0.00	0.89
PCR 5 WKL	3	1997	75.8	24.2	0.0	0.89	0.02	0.89
PCR 6 WE	4	1991	78.6	21.4	0.0	0.90	0.01	0.90
PCR 6 WKL	3	1991	79.7	20.3	0.0	0.91	0.02	0.91
PCR 7 WE	4	1992	75.7	24.3	0.0	0.90	0.01	0.90
PCR 7 WKL	3	1992	76.1	23.9	0.0	0.91	0.00	0.91
PCR 8 WE	4	1990	77.9	22.1	0.0	0.90	0.03	0.90
PCR 8 WKL	3	1990	78.6	21.4	0.0	0.91	0.00	0.91

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	1991	76.0	23.5	0.5	0.91	0.00	0.91
PCR 1 WKL	3	1991	76.2	23.4	0.5	0.91	0.01	0.91
PCR 2 WE	4	1990	76.2	23.8	0.0	0.90	0.00	0.90
PCR 2 WKL	3	1990	75.4	24.6	0.0	0.90	0.01	0.90
PCR 3 WE	4	1994	81.7	18.2	0.2	0.90	0.00	0.90
PCR 3 WKL	3	1994	79.8	20.1	0.1	0.89	0.01	0.89
PCR 4 WE	4	1994	79.3	20.6	0.1	0.89	0.01	0.89
PCR 4 WKL	3	1994	79.6	20.2	0.2	0.90	0.01	0.90
PCR 5 WE	4	1995	75.6	24.4	0.0	0.91	0.00	0.91
PCR 5 WKL	3	1995	73.9	26.1	0.0	0.91	0.01	0.91
PCR 6 WE	4	1990	76.7	23.3	0.0	0.90	0.00	0.90
PCR 6 WKL	3	1990	76.6	23.4	0.0	0.90	0.00	0.90
PCR 7 WE	4	1993	78.7	21.3	0.0	0.90	0.01	0.90
PCR 7 WKL	3	1993	80.1	19.9	0.0	0.91	0.00	0.91
PCR 8 WE	4	1994	78.9	21.1	0.0	0.91	0.01	0.91
PCR 8 WKL	3	1994	80.1	19.9	0.0	0.91	0.00	0.91

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	430	89.4	10.6	0.0	0.95	0.00	0.95
PCR 1 WKL	3	430	89.7	10.3	0.0	0.95	0.02	0.95
PCR 2 WE	3	424	86.6	13.4	0.0	0.93	0.01	0.93
PCR 2 WKL	3	424	89.1	10.9	0.0	0.95	0.02	0.95
PCR 3 WE	3	442	82.3	17.7	0.0	0.90	0.05	0.91
PCR 3 WKL	3	442	84.1	15.9	0.0	0.91	0.03	0.92
PCR 4 WE	3	428	84.5	15.5	0.0	0.92	0.03	0.92
PCR 4 WKL	3	428	84.3	15.7	0.0	0.92	0.00	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	4	587	83.8	16.2	0.0	0.93	0.02	0.93
PCR 1 WKL	3	587	81.4	18.6	0.0	0.92	0.02	0.92
PCR 2 WE	4	576	82.2	17.8	0.0	0.91	0.02	0.91
PCR 2 WKL	3	576	84.5	15.5	0.0	0.93	0.00	0.93

Table 50. Mathematics N-Count by Form

	Grade					
Form	3	4	5	6	7	8
Online	43,180	46,552	48,996	53,341	52,928	50,245
Spanish Online	1,281	819	511	212	227	238
Paper	5,854	5,308	5,119	5,319	4,903	4,384
Spanish Paper	194	152	58	19	8	19
Text-to-Speech	12,039	11,629	11,222	5,734	4,710	3,964
Assistive Technology	12	14	11	25	14	13
Total	62,560	64,474	65,917	64,650	62,790	58,863

Table 51. ELA and CSLA N-Count by Form

Content Area	Form	Grade					
		3	4	5	6	7	8
ELA	Online	54,264	57,287	59,982	60,088	58,927	55,416
	Paper	6,175	5,562	5,345	4,100	3,519	3,205
	Text-to-Speech	338	365	396	262	163	160
	Assistive Technology	19	44	34	43	36	27
	Total	60,796	63,258	65,757	64,493	62,645	58,808
CSLA	Total	1710	1162				

Table 52. Mathematics Demographic Distributions

Subgroup	Grade					
	3	4	5	6	7	8
No IEP	56,168	57,610	58,790	57,902	56,557	53,211
IEP	6,392	6,864	7,127	6,748	6,233	5,652
No Accommodation	47,539	49,866	51,799	55,789	54,869	51,808
Accommodation	15,021	14,608	14,118	8,861	7,921	7,055
Am. Indian/Alaska Native	398	401	424	432	441	414
Asian	1,901	1,956	2,042	1,999	1,984	2,006
Black	2,856	2,974	2,992	2,974	2,746	2,615
Hispanic	21,379	22,532	23,157	22,708	21,785	20,861
White	32,782	33,506	34,027	33,387	33,010	30,360
Hawaiian/Pacific Islander	160	168	185	181	162	167
Two or More Races	3,056	2,904	3,061	2,949	2,643	2,410
Missing*	6	11	9	8	3	11
No Economic Disadvantage	27,741	28,669	29,243	28,073	26,472	24,402
Economic Disadvantage	34,819	35,805	36,674	36,577	36,318	34,461
Female	30,734	31,338	32,012	31,442	30,331	28,393
Male	31,826	33,136	33,905	33,208	32,459	30,470
Language Proficiency NA	50,621	51,847	52,853	51,876	50,587	49,203
Language Proficiency NEP	2,708	2,096	1,206	1,039	1,292	1,222
Language Proficiency LEP	7,864	7,488	7,026	5,494	4,942	4,348
Language Proficiency FEP	1,367	3,043	4,832	6,241	5,969	4,090
Not Migrant	62,326	64,242	65,707	64,441	62,609	58,697
Migrant	234	232	210	209	181	166

*n-count less than 16

Table 53. ELA Demographic Distributions

Subgroup	Grade					
	3	4	5	6	7	8
No IEP	54,555	56,528	58,650	57,755	56,418	53,146
IEP	6,241	6,730	7,107	6,738	6,227	5,662
No Accommodation	54,383	56,167	58,115	58,155	56,811	53,503
Accommodation	6,413	7,091	7,642	6,338	5,834	5,305
Am. Indian/Alaska Native	401	400	426	434	439	414
Asian	1,871	1,935	2,021	1,980	1,981	2,003
Black	2,842	2,971	2,980	2,969	2,751	2,622
Hispanic	19,694	21,362	23,022	22,593	21,647	20,801
White	32,747	33,488	34,037	33,374	33,006	30,357
Hawaiian/Pacific Islander	157	167	186	181	159	166
Two or More Races	3,054	2,903	3,056	2,942	2,644	2,417
Missing*	n/a	n/a	n/a	n/a	n/a	n/a
No Economic Disadvantage	34,643	35,629	36,608	36,500	36,262	34,409
Economic Disadvantage	26,153	27,629	29,149	27,993	26,383	24,399
Female	29,863	30,720	31,945	31,354	30,265	28,366
Male	30,933	32,538	33,812	33,139	32,380	30,442
Language Proficiency NA	50,636	51,851	52,858	51,877	50,600	49,248
Language Proficiency NEP	1,908	1,571	1,051	887	1,124	1,102
Language Proficiency LEP	6,886	6,788	7,018	5,492	4,947	4,349
Language Proficiency FEP	1,366	3,048	4,830	6,237	5,974	4,109
Not Migrant	60,582	63,044	65,556	64,291	62,466	58,646
Migrant	214	214	201	202	179	162

*n-count less than 16

Table 54. CSLA Demographic Distributions

Subgroup	Grade	
	3	4
No IEP	1,551	1,046
IEP	159	116
No Accommodation	1,532	995
Accommodation	178	167
Am. Indian/Alaska Native*	n/a	n/a
Asian		
Black		
Hispanic	1,698	1,154
White*	n/a	n/a
Hawaiian/Pacific Islander		
Two or More Races		
Missing		
No Economic Disadvantage	243	181
Economic Disadvantage	1,467	981
Female	853	606
Male	857	556
Language Proficiency NA		
Language Proficiency NEP	705	461
Language Proficiency LEP	1,005	701
Language Proficiency FEP		
Not Migrant	1,696	1,153
Migrant*	n/a	n/a

*n-count less than 16

Table 55. Mathematics Grade 3 Operational Item Parameter Estimates

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	D6	D7
1	XI	GPC	0.458	-0.250	0	0.691	0.355	-0.196	-0.849		
2	XI	GPC	0.626	1.086	0	1.605	-1.124	-0.481			
3	XI	GPC	0.927	-0.317	0	0.385	-0.385				
4	XI	GPC	0.500	-0.369	0	1.143	-1.143				
5	XI	GPC	0.723	0.937	0	1.458	-1.458				
6	XI	GPC	0.519	0.770	0	-0.024	0.331	-0.913	-2.054	-0.024	0.331
7	XI	GPC	0.644	0.901	0	1.495	-0.550	0.083	-1.028		
8	XI	GPC	0.564	1.912	0	1.293	-0.366	-0.927			
9	XI	2PL	0.940	0.087							
10	XI	2PL	0.733	-1.200							
11	XI	2PL	0.720	-0.847							
12	XI	2PL	0.975	-0.931							
13	XI	2PL	1.135	0.125							
14	XI	2PL	0.817	0.063							
15	XI	2PL	0.619	-0.262							
16	XI	2PL	0.691	-0.814							
17	XI	2PL	0.631	1.086							
18	XI	2PL	0.896	0.057							
19	XI	2PL	0.774	0.040							
20	XI	2PL	1.272	0.335							
21	XI	2PL	0.730	0.613							
22	XI	2PL	0.931	-0.983							
23	XI	2PL	0.904	-1.877							
24	SR	2PL	0.736	-0.608							
25	SR	2PL	0.634	-0.365							
26	SR	2PL	1.167	-1.306							
27	SR	2PL	0.340	1.191							
28	SR	2PL	0.559	-0.298							
29	SR	2PL	0.827	-0.540							
30	SR	2PL	0.853	-1.289							
31	SR	2PL	0.622	-0.214							
32	SR	2PL	0.832	-1.481							
33	SR	2PL	0.463	0.022							

Table 56. Mathematics Grade 4 Operational Item Parameter Estimates

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	D6	D7
1	XI	GPC	0.999	0.389	0	0.404	-0.404				
2	XI	GPC	0.843	0.884	0	0.224	-0.103	-0.121			
3	XI	GPC	0.847	0.829	0	1.834	0.738	-0.435	-2.137		
4	XI	GPC	0.605	0.214	0	0.966	-0.966				
5	XI	GPC	0.703	0.875	0	0.368	-0.037	-0.330			
6	XI	GPC	0.766	0.683	0	-0.231	0.231				
7	XI	GPC	0.902	-0.197	0	0.534	-0.534				
8	XI	GPC	0.509	-0.428	0	0.550	-0.550				
9	XI	GPC	0.730	-1.158	0	0.549	-0.549				
10	XI	GPC	0.557	0.296	0	1.364	0.773	0.237	-0.280	-0.715	-1.379
11	XI	GPC	0.463	0.160	0	0.844	-1.947	0.835	0.269		
12	XI	2PL	0.675	1.263							
13	XI	2PL	0.829	0.639							
14	XI	2PL	1.016	0.123							
15	XI	2PL	1.108	1.566							
16	XI	2PL	0.598	-0.725							
17	XI	2PL	0.714	-0.316							
18	XI	2PL	0.572	-0.303							
19	XI	2PL	0.871	0.765							
20	XI	2PL	0.884	0.872							
21	XI	2PL	1.375	0.929							
22	XI	2PL	0.769	0.142							
23	XI	2PL	0.844	0.593							
24	SR	2PL	0.696	-0.715							
25	SR	2PL	0.692	-1.636							
26	SR	2PL	0.525	0.506							
27	SR	2PL	0.805	-0.879							
28	SR	2PL	0.864	-1.060							
29	SR	2PL	1.260	-1.014							
30	SR	2PL	0.770	-0.047							

Table 57. Mathematics Grade 5 Operational Item Parameter Estimates

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	D6	D7
1	CR	GPC	0.510	0.564	0	0.926	0.532	-0.315	-1.142		
2	CR	GPC	0.800	0.520	0	0.503	-0.237	-0.265			
3	CR	GPC	0.664	1.404	0	0.757	0.090	-0.847			
4	XI	GPC	0.448	0.170	0	0.755	-0.755				
5	XI	GPC	0.415	1.566	0	0.416	-0.416				
6	XI	GPC	0.691	1.379	0	0.033	-0.033				
7	XI	GPC	0.809	-0.158	0	0.354	-0.354				
8	XI	GPC	0.602	0.108	0	-0.132	0.132				
9	XI	GPC	0.626	-0.372	0	0.588	-0.588				
10	XI	GPC	0.391	1.187	0	0.940	0.436	1.043	-0.099	-1.713	-0.608
11	XI	GPC	0.664	1.151	0	1.510	-0.121	-0.254	-1.135		
12	XI	2PL	0.273	0.087							
13	XI	2PL	0.432	-1.163							
14	XI	2PL	0.511	1.085							
15	XI	2PL	0.882	0.348							
16	XI	2PL	0.651	-1.003							
17	XI	2PL	0.724	1.039							
18	XI	2PL	0.935	0.805							
19	XI	2PL	0.827	0.176							
20	XI	2PL	1.066	0.340							
21	SR	2PL	0.791	0.855							
22	SR	2PL	1.233	-0.204							
23	SR	2PL	0.503	-1.490							
24	SR	2PL	1.052	-0.902							
25	SR	2PL	0.426	-1.674							
26	SR	2PL	1.361	-0.553							
27	SR	2PL	0.855	-0.952							
28	SR	2PL	0.584	-0.835							
29	SR	2PL	0.533	1.034							
30	SR	2PL	0.740	-1.059							

Table 58. Mathematics Grade 6 Operational Item Parameter Estimates

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	D6	D7
1	CR	GPC	0.631	0.838	0	-0.487	0.358	0.129			
2	CR	GPC	0.708	1.447	0	0.719	0.315	-0.050	-0.984		
3	CR	GPC	0.611	1.282	0	0.224	0.379	0.326	-0.929		
4	CR	GPC	0.616	0.681	0	0.356	0.822	-1.178			
5	XI	GPC	0.834	0.814	0	0.043	-0.043				
6	XI	GPC	0.560	-0.141	0	0.592	-0.592				
7	XI	GPC	0.359	1.478	0	0.789	-0.789				
8	XI	GPC	0.425	-0.165	0	1.182	-0.206	-0.514	-0.462		
9	XI	GPC	0.645	0.241	0	1.187	-1.187				
10	XI	GPC	0.449	1.160	0	-0.234	0.328	-0.342	0.758	-0.780	0.270
11	XI	2PL	0.664	-1.234							
12	XI	2PL	1.064	1.551							
13	XI	2PL	1.263	-1.580							
14	XI	2PL	0.823	1.054							
15	XI	2PL	0.719	0.821							
16	XI	2PL	0.848	-0.764							
17	XI	2PL	0.662	-0.962							
18	XI	2PL	0.564	-0.827							
19	XI	2PL	0.892	1.780							
20	XI	2PL	0.810	0.971							
21	XI	2PL	1.347	0.581							
22	SR	2PL	1.037	0.237							
23	SR	2PL	0.598	-0.883							
24	SR	2PL	0.617	-0.329							
25	SR	2PL	0.771	0.063							
26	SR	2PL	0.686	-0.480							
27	SR	2PL	0.225	1.111							
28	SR	2PL	0.744	0.696							
29	SR	2PL	0.294	1.206							

Table 59. Mathematics Grade 7 Operational Item Parameter Estimates

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	D6	D7
1	CR	GPC	0.634	0.249	0	0.130	0.414	-0.544			
2	CR	GPC	0.611	0.982	0	-1.384	0.422	0.962			
3	CR	GPC	0.513	0.851	0	0.174	-0.623	0.241	0.209		
4	XI	GPC	0.662	1.427	0	1.751	0.060	-0.594	-1.217		
5	XI	GPC	0.444	1.538	0	-0.848	0.848				
6	XI	GPC	0.344	0.798	0	0.740	-0.740				
7	XI	GPC	0.528	0.457	0	1.681	0.177	-1.184	-0.674		
8	XI	GPC	0.562	0.901	0	1.301	-0.113	0.496	-0.298	-0.510	-0.876
9	XI	GPC	0.722	1.163	0	0.362	-0.362				
10	XI	GPC	1.018	0.898	0	-0.018	0.018				
11	XI	2PL	0.779	0.019							
12	XI	2PL	0.932	1.692							
13	XI	2PL	0.988	0.425							
14	XI	2PL	0.868	0.075							
15	XI	2PL	0.788	0.811							
16	XI	2PL	0.953	1.292							
17	XI	2PL	0.813	1.568							
18	XI	2PL	0.412	2.348							
19	XI	2PL	0.522	0.887							
20	XI	2PL	0.703	0.804							
21	SR	2PL	0.425	-0.391							
22	SR	2PL	0.711	0.983							
23	SR	2PL	0.351	-1.373							
24	SR	2PL	0.463	0.634							
25	SR	2PL	0.547	0.200							
26	SR	2PL	0.491	1.789							
27	SR	2PL	0.312	1.538							
28	SR	2PL	0.726	0.103							
29	SR	2PL	0.435	0.603							

Table 60. Mathematics Grade 8 Operational Item Parameter Estimates

Item	Item Type	Model	A	B	D1	D2	D3	D4	D5	D6	D7	Misfit Flag
1	CR	GPC	0.469	-0.060	0	0.173	-0.620	0.446				Yes
2	CR	GPC	0.546	2.024	0	-0.471	0.357	0.282	-0.168			Yes
3	CR	GPC	0.852	2.911	0	0.845	-0.160	-0.685				No
4	XI	GPC	0.299	1.943	0	1.277	-1.277					Yes
5	XI	GPC	0.486	0.985	0	0.562	-0.562					No
6	XI	GPC	0.775	1.686	0	0.477	-0.477					No
7	XI	GPC	0.397	0.754	0	1.167	-0.541	-0.149	-0.477			No
8	XI	GPC	0.404	0.745	0	-0.427	1.777	0.595	-0.268	-0.439	-1.238	Yes
9	XI	GPC	0.563	-0.558	0	0.319	-0.319					Yes
10	XI	GPC	0.459	0.768	0	0.830	-0.830					Yes
11	XI	GPC	0.546	2.387	0	0.592	1.264	-0.151	-1.705			No
12	XI	2PL	0.837	-0.511								No
13	XI	2PL	0.827	1.493								Yes
14	XI	2PL	1.336	1.477								Yes
15	XI	2PL	1.202	1.799								No
16	XI	2PL	0.407	1.712								No
17	XI	2PL	0.804	0.909								No
18	SR	2PL	0.354	0.823								No
19	SR	2PL	0.315	0.067								Yes
20	SR	2PL	0.300	1.214								No
21	SR	2PL	0.321	0.916								No
22	SR	2PL	0.495	1.344								Yes
23	SR	2PL	0.680	-1.703								Yes
24	SR	2PL	0.518	1.671								Yes
25	SR	2PL	0.728	-0.364								No
26	SR	2PL	0.520	1.715								No
27	SR	2PL	0.533	0.121								No
28	SR	2PL	0.300	0.456								No

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	0.924	2.418	0	1.789	-0.267	-1.522	No
PCR 1 WKL	CR	GPC	0.823	1.991	0	1.940	-0.217	-1.723	No
PCR 2 WE	CR	GPC	0.666	1.827	0	2.226	-0.412	-1.814	No
PCR 2 WKL	CR	GPC	0.588	1.891	0	1.965	0.002	-1.967	No
5	XI	GPC	0.608	-0.132	0	0.469	-0.469		No
6	XI	GPC	0.561	0.037	0	-1.100	1.100		Yes
7	XI	GPC	0.700	0.413	0	0.277	-0.277		Yes
8	XI	GPC	0.453	0.206	0	0.450	-0.450		Yes
9	XI	GPC	0.414	0.632	0	-1.071	1.071		No
10	XI	GPC	0.581	-1.289	0	-1.184	1.184		No
11	XI	GPC	0.487	-0.040	0	-0.340	0.340		No
12	XI	GPC	0.832	-0.153	0	0.727	-0.727		Yes
13	XI	GPC	0.529	0.622	0	-0.708	0.708		Yes
14	XI	GPC	0.541	0.022	0	0.374	-0.374		No
15	XI	GPC	0.324	2.005	0	-0.568	0.568		Yes
16	XI	GPC	0.297	0.970	0	-0.365	0.365		No
17	XI	GPC	0.212	2.129	0	-0.323	0.323		No
18	XI	GPC	0.500	-0.257	0	0.809	-0.809		Yes
19	XI	GPC	0.583	0.528	0	0.954	-0.954		Yes
20	XI	GPC	0.568	-1.321	0	-2.994	2.994		No
21	XI	GPC	0.510	-0.546	0	-1.719	1.719		No
22	XI	GPC	0.504	-0.747	0	0.155	-0.155		Yes
23	XI	GPC	0.420	0.488	0	-0.592	0.592		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	0.680	1.279	0	1.329	-0.175	-1.153		No
PCR 1 WKL	CR	GPC	0.736	1.248	0	1.398	-0.109	-1.289		No
PCR 2 WE	CR	GPC	0.786	1.730	0	2.131	0.692	-1.215	-1.608	No
PCR 2 WKL	CR	GPC	0.809	1.148	0	1.733	0.058	-1.791		No
5	XI	GPC	0.290	0.868	0	-0.891	0.891			Yes
6	XI	GPC	0.404	0.379	0	0.012	-0.012			No
7	XI	GPC	0.298	2.413	0	1.629	-1.629			Yes
8	XI	GPC	0.764	0.061	0	-0.072	0.072			No
9	XI	GPC	0.310	-0.731	0	-0.910	0.910			No
10	XI	GPC	0.266	2.069	0	2.324	-2.324			No
11	XI	GPC	0.421	-0.059	0	-0.164	0.164			No
12	XI	GPC	0.430	-0.186	0	0.083	-0.083			No
13	XI	GPC	0.512	0.142	0	1.484	-1.484			No
14	XI	GPC	0.561	-1.148	0	-1.597	1.597			Yes
15	XI	GPC	0.377	-0.662	0	1.450	-1.450			No
16	XI	GPC	0.251	1.545	0	-0.157	0.157			No
17	XI	GPC	0.986	-0.409	0	0.727	-0.727			No
18	XI	GPC	0.605	-0.011	0	0.217	-0.217			No
19	XI	GPC	0.712	0.143	0	0.613	-0.613			No
20	XI	GPC	0.400	-0.466	0	-0.617	0.617			Yes
21	XI	GPC	0.372	0.036	0	-0.878	0.878			No
22	XI	GPC	0.766	-0.822	0	0.506	-0.506			No
23	XI	GPC	0.439	-0.273	0	-1.385	1.385			Yes
24	XI	GPC	0.328	0.244	0	-0.428	0.428			Yes
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	0.726	2.498	0	1.913	0.376	-1.559	-0.729	No
PCR 1 WKL	CR	GPC	0.780	1.518	0	1.742	0.354	-2.096		No
PCR 2 WE	CR	GPC	0.757	1.446	0	0.971	-0.145	-0.826		No
PCR 2 WKL	CR	GPC	0.736	1.538	0	0.908	-0.019	-0.889		No
5	XI	GPC	0.212	0.604	0	-3.542	3.542			Yes
6	XI	GPC	0.405	0.072	0	-0.335	0.335			Yes
7	XI	GPC	0.231	1.621	0	-0.693	0.693			No
8	XI	GPC	0.385	-0.193	0	-0.799	0.799			No
9	XI	GPC	0.595	0.136	0	0.637	-0.637			Yes
10	XI	GPC	0.628	-0.754	0	-0.213	0.213			Yes
11	XI	GPC	0.466	0.399	0	-1.348	1.348			Yes
12	XI	GPC	0.250	1.911	0	-1.182	1.182			Yes
13	XI	GPC	0.264	2.054	0	1.136	-1.136			No
14	XI	GPC	0.191	0.338	0	-2.784	2.784			Yes
15	XI	GPC	0.347	-0.231	0	-2.728	2.728			Yes
16	XI	GPC	0.313	1.686	0	-1.433	1.433			Yes
17	XI	GPC	0.668	0.754	0	0.556	-0.556			Yes
18	XI	GPC	0.590	0.005	0	0.422	-0.422			No
19	XI	GPC	0.338	0.812	0	-1.376	1.376			Yes
20	XI	GPC	0.584	1.241	0	0.607	-0.607			No
21	XI	GPC	0.238	0.898	0	-3.105	3.105			Yes
22	XI	GPC	0.269	1.422	0	-2.780	2.780			Yes
23	XI	GPC	0.422	0.096	0	-2.795	2.795			Yes
24	XI	GPC	0.441	0.187	0	1.934	-1.934			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	0.597	1.022	0	0.718	0.875	-0.501	-1.092	No
PCR 1 WKL	CR	GPC	0.833	0.650	0	0.855	0.048	-0.903		No
PCR 2 WE	CR	GPC	0.867	1.807	0	1.713	0.129	-0.656	-1.187	Yes
PCR 2 WKL	CR	GPC	0.852	1.341	0	1.314	-0.249	-1.064		No
5	XI	GPC	0.421	1.132	0	0.875	-0.875			No
6	XI	GPC	0.347	0.694	0	-0.471	0.471			Yes
7	XI	GPC	0.350	1.738	0	0.700	-0.700			Yes
8	XI	GPC	0.512	1.064	0	-0.365	0.365			Yes
9	XI	GPC	0.270	1.451	0	-1.631	1.631			No
10	XI	GPC	0.328	0.185	0	-2.077	2.077			Yes
11	XI	GPC	0.350	0.994	0	-0.714	0.714			Yes
12	XI	GPC	0.536	-1.104	0	0.322	-0.322			No
13	XI	GPC	0.297	1.740	0	1.263	-1.263			Yes
14	XI	GPC	0.549	-0.629	0	-1.341	1.341			Yes
15	XI	GPC	0.325	1.238	0	-0.122	0.122			No
16	XI	GPC	0.242	-0.327	0	-4.508	4.508			Yes
17	XI	GPC	0.371	0.938	0	0.998	-0.998			Yes
18	XI	GPC	0.406	-0.081	0	1.533	-1.533			No
19	XI	GPC	0.570	-0.142	0	0.886	-0.886			Yes
20	XI	GPC	0.351	0.500	0	0.342	-0.342			No
21	XI	GPC	0.534	1.124	0	-0.059	0.059			No
22	XI	GPC	0.445	-0.534	0	-1.232	1.232			No
23	XI	GPC	0.632	-1.149	0	-1.482	1.482			Yes
24	XI	GPC	0.520	0.674	0	-0.427	0.427			No
25	XI	GPC	0.195	2.671	0	1.760	-1.760			Yes
26	XI	GPC	0.529	1.734	0	0.917	-0.917			No

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	0.648	0.824	0	1.578	0.225	-0.515	-1.289	Yes
PCR 1 WKL	CR	GPC	0.752	0.300	0	1.025	-0.127	-0.898		Yes
PCR 2 WE	CR	GPC	0.882	1.411	0	1.546	0.421	-0.660	-1.307	Yes
PCR 2 WKL	CR	GPC	0.951	0.851	0	1.224	-0.135	-1.089		No
5	XI	GPC	0.268	1.030	0	-1.154	1.154			No
6	XI	GPC	0.263	0.691	0	-0.347	0.347			No
7	XI	GPC	0.500	1.007	0	0.796	-0.796			No
8	XI	GPC	0.434	-0.353	0	-1.921	1.921			Yes
9	XI	GPC	0.328	0.237	0	-2.518	2.518			Yes
10	XI	GPC	0.367	0.598	0	-1.873	1.873			Yes
11	XI	GPC	0.289	-0.822	0	-4.990	4.990			Yes
12	XI	GPC	0.441	-0.131	0	-0.779	0.779			No
13	XI	GPC	0.458	1.311	0	0.375	-0.375			No
14	XI	GPC	0.266	0.046	0	-1.493	1.493			Yes
15	XI	GPC	0.556	0.670	0	-0.397	0.397			Yes
16	XI	GPC	0.423	-0.349	0	-0.687	0.687			Yes
17	XI	GPC	0.293	1.301	0	-0.578	0.578			Yes
18	XI	GPC	0.398	2.012	0	1.587	-1.587			No
19	XI	GPC	0.445	0.872	0	-0.582	0.582			Yes
20	XI	GPC	0.353	0.801	0	-1.105	1.105			No
21	XI	GPC	0.408	0.661	0	2.352	-2.352			No
22	XI	GPC	0.719	-0.088	0	0.535	-0.535			No
23	XI	GPC	0.596	-0.615	0	-1.097	1.097			Yes
24	XI	GPC	0.299	1.029	0	-0.796	0.796			No
25	XI	GPC	0.725	0.268	0	1.180	-1.180			No
26	XI	GPC	0.256	0.453	0	-1.024	1.024			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	0.734	0.803	0	1.421	0.590	-0.609	-1.402	Yes
PCR 1 WKL	CR	GPC	0.805	0.266	0	0.945	0.123	-1.068		Yes
PCR 2 WE	CR	GPC	0.705	0.886	0	1.506	0.715	-0.752	-1.469	Yes
PCR 2 WKL	CR	GPC	0.780	0.365	0	0.957	0.121	-1.078		Yes
5	XI	GPC	0.443	-0.109	0	0.073	-0.073			No
6	XI	GPC	0.314	1.329	0	0.717	-0.717			No
7	XI	GPC	0.235	1.106	0	-2.416	2.416			Yes
8	XI	GPC	0.948	-0.233	0	0.799	-0.799			No
9	XI	GPC	0.464	-0.085	0	-0.325	0.325			No
10	XI	GPC	0.370	0.345	0	0.316	-0.316			Yes
11	XI	GPC	0.467	0.465	0	1.382	-1.382			No
12	XI	GPC	0.373	0.562	0	-1.714	1.714			No
13	XI	GPC	0.276	1.439	0	-1.936	1.936			Yes
14	XI	GPC	0.457	0.463	0	0.945	-0.945			No
15	XI	GPC	0.505	-1.117	0	1.637	-1.637			No
16	XI	GPC	0.485	0.151	0	-1.009	1.009			No
17	XI	GPC	0.301	0.959	0	-3.388	3.388			No
18	XI	GPC	0.399	-0.159	0	-0.201	0.201			No
19	XI	GPC	0.300	2.882	0	2.413	-2.413			No
20	XI	GPC	0.321	0.321	0	-3.286	3.286			No
21	XI	GPC	0.430	0.741	0	1.045	-1.045			No
22	XI	GPC	0.170	0.800	0	-2.063	2.063			Yes
23	XI	GPC	0.235	0.839	0	-3.584	3.584			Yes
24	XI	GPC	0.474	-0.215	0	0.305	-0.305			No
25	XI	GPC	0.273	0.237	0	-0.507	0.507			No
26	XI	GPC	0.324	-0.561	0	-1.043	1.043			No
27	XI	GPC	0.637	0.713	0	0.501	-0.501			No

Table 67. CSLA Grade 3 Operational Item Parameter Estimates

Item	Item Type	Model	B	D1	D2	D3	D4	Infit	Outfit
1	SR	RPCM	-0.7121	0	1.4121	-1.4121		1.04	1.09
2	SR	RPCM	0.1525	0	-0.7696	0.7696		1.12	1.14
3	SR	RPCM	-0.5164	0	0.7692	-0.7692		0.87	0.85
4	SR	RPCM	0.3508	0	1.0613	-1.0613		1.15	1.45
5	SR	RPCM	-0.364	0	0.3838	-0.3838		1.03	1.03
6	SR	RPCM	0.2376	0	0.4636	-0.4636		1.02	1.16
7	SR	RPCM	0.6704	0	1.3082	-1.3082		0.98	1.34
8	SR	RPCM	0.4992	0	0.5268	-0.5268		0.94	1.05
9	SR	RPCM	0.1711	0	-0.0085	0.0085		0.95	0.99
10	SR	RPCM	0.8326	0	-0.0031	0.0031		1.21	1.45
11	SR	RPCM	-0.4247	0	0.2344	-0.2344		0.84	0.8
12	SR	RPCM	-0.1695	0	0.4885	-0.4885		0.89	0.88
13	SR	RPCM	-0.3637	0	0.1734	-0.1734		0.8	0.77
14	SR	RPCM	-0.3872	0	0.756	-0.756		0.9	0.93
15	SR	RPCM	0.0334	0	0.5414	-0.5414		1.01	0.98
16	SR	RPCM	0.2214	0	-0.9959	0.9959		0.93	0.91
17	SR	RPCM	-0.1386	0	1.0467	-1.0467		0.86	0.84
18	SR	RPCM	-0.3212	0	0.3802	-0.3802		1.24	1.34
PCR 1 WE	CR	RPCM	0.1656	0	-1.0893	-0.3575	1.4468	0.96	0.96
PCR 1 WKL	CR	RPCM	-0.3613	0	-0.5366	0.8603	-0.3237	1.01	1.03
PCR 2 WE	CR	RPCM	0.2176	0	-0.1679	-0.4521	0.62	0.89	0.85
PCR 2 WKL	CR	RPCM	-0.4087	0	-0.4257	0.5956	-0.1699	0.99	0.97

Table 68. CSLA Grade 4 Operational Item Parameter Estimates

Item	Item Type	Model	B	D1	D2	D3	D4	D5	Infit	Outfit
1	SR	RPCM	0.4814	0	-0.1194	0.1194			1.09	1.16
2	SR	RPCM	0.3642	0	0.5686	-0.5686			1.11	1.33
3	SR	RPCM	0.2843	0	0.3436	-0.3436			0.92	0.95
4	SR	RPCM	0.3681	0	0.6672	-0.6672			1.11	1.3
5	SR	RPCM	-0.8705	0	0.4479	-0.4479			0.9	0.89
6	SR	RPCM	-1.2829	0	0.7878	-0.7878			0.85	0.86
7	SR	RPCM	-1.0263	0	0.4303	-0.4303			0.89	0.85
8	SR	RPCM	-0.9236	0	0.2336	-0.2336			0.97	0.98
9	SR	RPCM	-0.2946	0	1.0307	-1.0307			0.99	1.02
10	SR	RPCM	-0.4003	0	0.3668	-0.3668			0.92	0.89
11	SR	RPCM	-0.3465	0	-0.7149	0.7149			0.94	0.95
12	SR	RPCM	-0.3215	0	1.0046	-1.0046			1	0.96
13	SR	RPCM	0.1249	0	1.2306	-1.2306			0.95	0.95
14	SR	RPCM	0.7695	0	0.2747	-0.2747			1.15	1.57
15	SR	RPCM	1.5186	0	-0.9698	0.9698			1.17	1.28
16	SR	RPCM	0.078	0	1.2504	-1.2504			1.2	1.2
17	SR	RPCM	0.5763	0	0.1363	-0.1363			1.15	1.41
18	SR	RPCM	-0.3592	0	0.1656	-0.1656			1.02	1.06
19	SR	RPCM	0.0731	0	0.7711	-0.7711			1.02	1.04
20	SR	RPCM	-0.5376	0	0.7842	-0.7842			0.95	0.91
21	SR	RPCM	0.2028	0	0.4053	-0.4053			1	1.05
PCR 1 WE	CR	RPCM	0.2374	0	-0.7116	-0.9104	-0.0056	1.6276	0.77	0.75
PCR 1 WKL	CR	RPCM	-0.7427	0	-0.4271	0.5669	-0.1398		0.95	0.92
PCR 2 WE	CR	RPCM	0.6911	0	-0.6477	-0.483	1.1307		0.94	0.91
PCR 2 WKL	CR	RPCM	-0.7911	0	-1.0217	1.2195	-0.1978		1.01	1.02

Table 69. Mathematics Grade 3 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	616	0.98	616	0.98	695	338	0.54	7523	12.03	740	639	1.02	30869	49.34
651	60	0.10	676	1.08	696	355	0.57	7878	12.59	741	674	1.08	31543	50.42
652	40	0.06	716	1.14	697	342	0.55	8220	13.14	742	680	1.09	32223	51.51
653	53	0.08	769	1.23	698	388	0.62	8608	13.76	743	681	1.09	32904	52.60
654	30	0.05	799	1.28	699	340	0.54	8948	14.30	744	665	1.06	33569	53.66
655	42	0.07	841	1.34	700	350	0.56	9298	14.86	745	626	1.00	34195	54.66
656	47	0.08	888	1.42	701	386	0.62	9684	15.48	746	703	1.12	34898	55.78
657	42	0.07	930	1.49	702	372	0.59	10056	16.07	747	687	1.10	35585	56.88
658	40	0.06	970	1.55	703	410	0.66	10466	16.73	748	653	1.04	36238	57.93
659	52	0.08	1022	1.63	704	406	0.65	10872	17.38	749	657	1.05	36895	58.98
660	76	0.12	1098	1.76	705	422	0.67	11294	18.05	750	666	1.06	37561	60.04
661	62	0.10	1160	1.85	706	422	0.67	11716	18.73	751	657	1.05	38218	61.09
662	99	0.16	1259	2.01	707	412	0.66	12128	19.39	752	661	1.06	38879	62.15
663	105	0.17	1364	2.18	708	464	0.74	12592	20.13	753	683	1.09	39562	63.24
664	89	0.14	1453	2.32	709	440	0.70	13032	20.83	754	679	1.09	40241	64.32
665	91	0.15	1544	2.47	710	466	0.74	13498	21.58	755	669	1.07	40910	65.39
666	87	0.14	1631	2.61	711	441	0.70	13939	22.28	756	662	1.06	41572	66.45
667	72	0.12	1703	2.72	712	498	0.80	14437	23.08	757	640	1.02	42212	67.48
668	100	0.16	1803	2.88	713	488	0.78	14925	23.86	758	649	1.04	42861	68.51
669	121	0.19	1924	3.08	714	511	0.82	15436	24.67	759	647	1.03	43508	69.55
670	121	0.19	2045	3.27	715	503	0.80	15939	25.48	760	602	0.96	44110	70.51
671	153	0.24	2198	3.51	716	515	0.82	16454	26.30	761	591	0.94	44701	71.45
672	115	0.18	2313	3.70	717	519	0.83	16973	27.13	762	605	0.97	45306	72.42
673	142	0.23	2455	3.92	718	517	0.83	17490	27.96	763	595	0.95	45901	73.37
674	171	0.27	2626	4.20	719	505	0.81	17995	28.76	764	607	0.97	46508	74.34
675	167	0.27	2793	4.46	720	537	0.86	18532	29.62	765	579	0.93	47087	75.27
676	160	0.26	2953	4.72	721	513	0.82	19045	30.44	766	602	0.96	47689	76.23
677	181	0.29	3134	5.01	722	582	0.93	19627	31.37	767	559	0.89	48248	77.12
678	166	0.27	3300	5.28	723	603	0.96	20230	32.34	768	591	0.94	48839	78.07
679	155	0.25	3455	5.52	724	567	0.91	20797	33.24	769	519	0.83	49358	78.90
680	188	0.30	3643	5.82	725	587	0.94	21384	34.18	770	514	0.82	49872	79.72
681	203	0.32	3846	6.15	726	572	0.91	21956	35.10	771	529	0.85	50401	80.57
682	204	0.33	4050	6.47	727	616	0.98	22572	36.08	772	517	0.83	50918	81.39
683	199	0.32	4249	6.79	728	600	0.96	23172	37.04	773	501	0.80	51419	82.19
684	210	0.34	4459	7.13	729	584	0.93	23756	37.97	774	501	0.80	51920	82.99
685	218	0.35	4677	7.48	730	631	1.01	24387	38.98	775	466	0.74	52386	83.74
686	239	0.38	4916	7.86	731	611	0.98	24998	39.96	776	440	0.70	52826	84.44
687	247	0.39	5163	8.25	732	627	1.00	25625	40.96	777	444	0.71	53270	85.15
688	286	0.46	5449	8.71	733	632	1.01	26257	41.97	778	391	0.63	53661	85.78
689	288	0.46	5737	9.17	734	661	1.06	26918	43.03	779	432	0.69	54093	86.47
690	269	0.43	6006	9.60	735	669	1.07	27587	44.10	780	382	0.61	54475	87.08
691	281	0.45	6287	10.05	736	642	1.03	28229	45.12	781	399	0.64	54874	87.72
692	310	0.50	6597	10.55	737	653	1.04	28882	46.17	782	351	0.56	55225	88.28
693	266	0.43	6863	10.97	738	693	1.11	29575	47.28	783	389	0.62	55614	88.90
694	322	0.51	7185	11.49	739	655	1.05	30230	48.32	784	338	0.54	55952	89.44

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

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	357	0.57	56309	90.01	830	28	0.04	62242	99.49
786	324	0.52	56633	90.53	831	12	0.02	62254	99.51
787	317	0.51	56950	91.03	832	21	0.03	62275	99.55
788	298	0.48	57248	91.51	833	14	0.02	62289	99.57
789	272	0.43	57520	91.95	834	15	0.02	62304	99.59
790	272	0.43	57792	92.38	835	16	0.03	62320	99.62
791	242	0.39	58034	92.77	836	24	0.04	62344	99.66
792	267	0.43	58301	93.19	837	18	0.03	62362	99.69
793	233	0.37	58534	93.57	838	16	0.03	62378	99.71
794	250	0.40	58784	93.97	839	13	0.02	62391	99.73
795	211	0.34	58995	94.30	840	12	0.02	62403	99.75
796	207	0.33	59202	94.63	841	3	0.00	62406	99.76
797	202	0.32	59404	94.96	842	5	0.01	62411	99.76
798	170	0.27	59574	95.23	843	11	0.02	62422	99.78
799	179	0.29	59753	95.51	844	14	0.02	62436	99.80
800	174	0.28	59927	95.79	845	9	0.01	62445	99.82
801	155	0.25	60082	96.04	846	17	0.03	62462	99.84
802	145	0.23	60227	96.27	847	8	0.01	62470	99.86
803	152	0.24	60379	96.52	848	10	0.02	62480	99.87
804	114	0.18	60493	96.70	849	7	0.01	62487	99.88
805	127	0.20	60620	96.90	850	72	0.12	62559	100.00
806	107	0.17	60727	97.07					
807	119	0.19	60846	97.26					
808	127	0.20	60973	97.46					
809	104	0.17	61077	97.63					
810	102	0.16	61179	97.79					
811	95	0.15	61274	97.95					
812	73	0.12	61347	98.06					
813	96	0.15	61443	98.22					
814	76	0.12	61519	98.34					
815	69	0.11	61588	98.45					
816	63	0.10	61651	98.55					
817	55	0.09	61706	98.64					
818	53	0.08	61759	98.72					
819	57	0.09	61816	98.81					
820	53	0.08	61869	98.90					
821	47	0.08	61916	98.97					
822	49	0.08	61965	99.05					
823	35	0.06	62000	99.11					
824	33	0.05	62033	99.16					
825	35	0.06	62068	99.22					
826	39	0.06	62107	99.28					
827	31	0.05	62138	99.33					
828	42	0.07	62180	99.39					
829	34	0.05	62214	99.45					

Table 71. Mathematics Grade 4 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	237	0.37	237	0.37	695	482	0.75	7446	11.55	740	666	1.03	36580	56.74
651	5	0.01	242	0.38	696	465	0.72	7911	12.27	741	714	1.11	37294	57.85
652	16	0.02	258	0.40	697	490	0.76	8401	13.03	742	686	1.06	37980	58.91
653	11	0.02	269	0.42	698	514	0.80	8915	13.83	743	686	1.06	38666	59.97
654	26	0.04	295	0.46	699	563	0.87	9478	14.70	744	687	1.07	39353	61.04
655	11	0.02	306	0.47	700	523	0.81	10001	15.51	745	720	1.12	40073	62.16
656	14	0.02	320	0.50	701	520	0.81	10521	16.32	746	711	1.10	40784	63.26
657	27	0.04	347	0.54	702	535	0.83	11056	17.15	747	648	1.01	41432	64.26
658	52	0.08	399	0.62	703	572	0.89	11628	18.04	748	694	1.08	42126	65.34
659	42	0.07	441	0.68	704	590	0.92	12218	18.95	749	681	1.06	42807	66.40
660	34	0.05	475	0.74	705	572	0.89	12790	19.84	750	666	1.03	43473	67.43
661	42	0.07	517	0.80	706	609	0.94	13399	20.78	751	696	1.08	44169	68.51
662	54	0.08	571	0.89	707	605	0.94	14004	21.72	752	657	1.02	44826	69.53
663	34	0.05	605	0.94	708	595	0.92	14599	22.64	753	600	0.93	45426	70.46
664	75	0.12	680	1.05	709	620	0.96	15219	23.61	754	615	0.95	46041	71.41
665	54	0.08	734	1.14	710	651	1.01	15870	24.62	755	643	1.00	46684	72.41
666	31	0.05	765	1.19	711	621	0.96	16491	25.58	756	642	1.00	47326	73.41
667	57	0.09	822	1.27	712	658	1.02	17149	26.60	757	608	0.94	47934	74.35
668	88	0.14	910	1.41	713	633	0.98	17782	27.58	758	613	0.95	48547	75.30
669	63	0.10	973	1.51	714	609	0.94	18391	28.53	759	609	0.94	49156	76.24
670	94	0.15	1067	1.65	715	652	1.01	19043	29.54	760	595	0.92	49751	77.17
671	104	0.16	1171	1.82	716	671	1.04	19714	30.58	761	584	0.91	50335	78.07
672	126	0.20	1297	2.01	717	656	1.02	20370	31.60	762	605	0.94	50940	79.01
673	129	0.20	1426	2.21	718	731	1.13	21101	32.73	763	598	0.93	51538	79.94
674	82	0.13	1508	2.34	719	618	0.96	21719	33.69	764	555	0.86	52093	80.80
675	120	0.19	1628	2.53	720	725	1.12	22444	34.81	765	567	0.88	52660	81.68
676	110	0.17	1738	2.70	721	698	1.08	23142	35.89	766	497	0.77	53157	82.45
677	148	0.23	1886	2.93	722	648	1.01	23790	36.90	767	486	0.75	53643	83.20
678	163	0.25	2049	3.18	723	713	1.11	24503	38.01	768	488	0.76	54131	83.96
679	203	0.31	2252	3.49	724	738	1.14	25241	39.15	769	491	0.76	54622	84.72
680	204	0.32	2456	3.81	725	713	1.11	25954	40.26	770	454	0.70	55076	85.43
681	232	0.36	2688	4.17	726	713	1.11	26667	41.36	771	427	0.66	55503	86.09
682	238	0.37	2926	4.54	727	673	1.04	27340	42.41	772	473	0.73	55976	86.82
683	230	0.36	3156	4.90	728	721	1.12	28061	43.52	773	460	0.71	56436	87.54
684	246	0.38	3402	5.28	729	685	1.06	28746	44.59	774	410	0.64	56846	88.17
685	256	0.40	3658	5.67	730	735	1.14	29481	45.73	775	396	0.61	57242	88.79
686	308	0.48	3966	6.15	731	709	1.10	30190	46.83	776	387	0.60	57629	89.39
687	296	0.46	4262	6.61	732	711	1.10	30901	47.93	777	388	0.60	58017	89.99
688	330	0.51	4592	7.12	733	697	1.08	31598	49.01	778	398	0.62	58415	90.61
689	353	0.55	4945	7.67	734	744	1.15	32342	50.16	779	349	0.54	58764	91.15
690	351	0.54	5296	8.21	735	701	1.09	33043	51.25	780	343	0.53	59107	91.68
691	406	0.63	5702	8.84	736	688	1.07	33731	52.32	781	318	0.49	59425	92.17
692	439	0.68	6141	9.53	737	729	1.13	34460	53.45	782	305	0.47	59730	92.64
693	401	0.62	6542	10.15	738	727	1.13	35187	54.58	783	305	0.47	60035	93.12
694	422	0.65	6964	10.80	739	727	1.13	35914	55.70	784	287	0.45	60322	93.56

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

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	250	0.39	60572	93.95	830	7	0.01	64352	99.81
786	259	0.40	60831	94.35	831	10	0.02	64362	99.83
787	246	0.38	61077	94.73	832	33	0.05	64395	99.88
788	220	0.34	61297	95.08	833	2	0.00	64397	99.88
789	199	0.31	61496	95.38	834	7	0.01	64404	99.89
790	200	0.31	61696	95.69	835	2	0.00	64406	99.90
791	182	0.28	61878	95.98	836	4	0.01	64410	99.90
792	218	0.34	62096	96.31	837	2	0.00	64412	99.91
793	176	0.27	62272	96.59	838	13	0.02	64425	99.93
794	164	0.25	62436	96.84	839	1	0.00	64426	99.93
795	164	0.25	62600	97.10	840	1	0.00	64427	99.93
796	148	0.23	62748	97.33	841	4	0.01	64431	99.94
797	144	0.22	62892	97.55	842	1	0.00	64432	99.94
798	110	0.17	63002	97.72	846	12	0.02	64444	99.96
799	125	0.19	63127	97.91	848	3	0.00	64447	99.96
800	111	0.17	63238	98.09	850	25	0.04	64472	100.00
801	104	0.16	63342	98.25					
802	84	0.13	63426	98.38					
803	84	0.13	63510	98.51					
804	76	0.12	63586	98.63					
805	64	0.10	63650	98.73					
806	73	0.11	63723	98.84					
807	50	0.08	63773	98.92					
808	65	0.10	63838	99.02					
809	48	0.07	63886	99.09					
810	37	0.06	63923	99.15					
811	55	0.09	63978	99.23					
812	27	0.04	64005	99.28					
813	39	0.06	64044	99.34					
814	42	0.07	64086	99.40					
815	28	0.04	64114	99.44					
816	25	0.04	64139	99.48					
817	25	0.04	64164	99.52					
818	8	0.01	64172	99.53					
819	25	0.04	64197	99.57					
820	20	0.03	64217	99.60					
821	23	0.04	64240	99.64					
822	9	0.01	64249	99.65					
823	35	0.05	64284	99.71					
824	17	0.03	64301	99.73					
825	6	0.01	64307	99.74					
826	4	0.01	64311	99.75					
827	14	0.02	64325	99.77					
828	5	0.01	64330	99.78					
829	15	0.02	64345	99.80					

Table 73. Mathematics Grade 5 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	209	0.32	209	0.32	695	413	0.63	6628	10.06	740	741	1.12	36299	55.07
651	26	0.04	235	0.36	696	491	0.74	7119	10.80	741	703	1.07	37002	56.13
652	16	0.02	251	0.38	697	476	0.72	7595	11.52	742	706	1.07	37708	57.21
653	10	0.02	261	0.40	698	481	0.73	8076	12.25	743	661	1.00	38369	58.21
654	29	0.04	290	0.44	699	526	0.80	8602	13.05	744	712	1.08	39081	59.29
655	39	0.06	329	0.50	700	497	0.75	9099	13.80	745	669	1.01	39750	60.30
656	15	0.02	344	0.52	701	505	0.77	9604	14.57	746	712	1.08	40462	61.38
657	14	0.02	358	0.54	702	539	0.82	10143	15.39	747	625	0.95	41087	62.33
658	28	0.04	386	0.59	703	579	0.88	10722	16.27	748	639	0.97	41726	63.30
659	33	0.05	419	0.64	704	582	0.88	11304	17.15	749	676	1.03	42402	64.33
660	31	0.05	450	0.68	705	551	0.84	11855	17.98	750	654	0.99	43056	65.32
661	26	0.04	476	0.72	706	619	0.94	12474	18.92	751	617	0.94	43673	66.25
662	35	0.05	511	0.78	707	636	0.96	13110	19.89	752	663	1.01	44336	67.26
663	41	0.06	552	0.84	708	633	0.96	13743	20.85	753	655	0.99	44991	68.25
664	43	0.07	595	0.90	709	648	0.98	14391	21.83	754	609	0.92	45600	69.18
665	41	0.06	636	0.96	710	621	0.94	15012	22.77	755	642	0.97	46242	70.15
666	81	0.12	717	1.09	711	598	0.91	15610	23.68	756	596	0.90	46838	71.06
667	57	0.09	774	1.17	712	662	1.00	16272	24.69	757	573	0.87	47411	71.93
668	52	0.08	826	1.25	713	699	1.06	16971	25.75	758	578	0.88	47989	72.80
669	54	0.08	880	1.34	714	637	0.97	17608	26.71	759	589	0.89	48578	73.70
670	96	0.15	976	1.48	715	706	1.07	18314	27.78	760	553	0.84	49131	74.53
671	84	0.13	1060	1.61	716	654	0.99	18968	28.78	761	551	0.84	49682	75.37
672	82	0.12	1142	1.73	717	703	1.07	19671	29.84	762	575	0.87	50257	76.24
673	108	0.16	1250	1.90	718	691	1.05	20362	30.89	763	537	0.81	50794	77.06
674	101	0.15	1351	2.05	719	693	1.05	21055	31.94	764	536	0.81	51330	77.87
675	108	0.16	1459	2.21	720	661	1.00	21716	32.94	765	508	0.77	51838	78.64
676	114	0.17	1573	2.39	721	675	1.02	22391	33.97	766	494	0.75	52332	79.39
677	129	0.20	1702	2.58	722	775	1.18	23166	35.14	767	525	0.80	52857	80.19
678	169	0.26	1871	2.84	723	684	1.04	23850	36.18	768	497	0.75	53354	80.94
679	151	0.23	2022	3.07	724	740	1.12	24590	37.30	769	518	0.79	53872	81.73
680	182	0.28	2204	3.34	725	769	1.17	25359	38.47	770	503	0.76	54375	82.49
681	180	0.27	2384	3.62	726	711	1.08	26070	39.55	771	496	0.75	54871	83.24
682	194	0.29	2578	3.91	727	694	1.05	26764	40.60	772	509	0.77	55380	84.01
683	195	0.30	2773	4.21	728	721	1.09	27485	41.70	773	417	0.63	55797	84.65
684	227	0.34	3000	4.55	729	789	1.20	28274	42.89	774	428	0.65	56225	85.30
685	253	0.38	3253	4.93	730	779	1.18	29053	44.08	775	459	0.70	56684	85.99
686	248	0.38	3501	5.31	731	751	1.14	29804	45.21	776	431	0.65	57115	86.65
687	278	0.42	3779	5.73	732	737	1.12	30541	46.33	777	381	0.58	57496	87.22
688	262	0.40	4041	6.13	733	745	1.13	31286	47.46	778	385	0.58	57881	87.81
689	331	0.50	4372	6.63	734	725	1.10	32011	48.56	779	408	0.62	58289	88.43
690	300	0.46	4672	7.09	735	709	1.08	32720	49.64	780	362	0.55	58651	88.98
691	368	0.56	5040	7.65	736	733	1.11	33453	50.75	781	366	0.56	59017	89.53
692	362	0.55	5402	8.20	737	699	1.06	34152	51.81	782	317	0.48	59334	90.01
693	381	0.58	5783	8.77	738	735	1.12	34887	52.93	783	322	0.49	59656	90.50
694	432	0.66	6215	9.43	739	671	1.02	35558	53.94	784	306	0.46	59962	90.97

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

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	285	0.43	60247	91.40	830	37	0.06	65603	99.52
786	319	0.48	60566	91.88	831	10	0.02	65613	99.54
787	266	0.40	60832	92.29	832	27	0.04	65640	99.58
788	266	0.40	61098	92.69	833	7	0.01	65647	99.59
789	250	0.38	61348	93.07	834	22	0.03	65669	99.62
790	253	0.38	61601	93.45	835	10	0.02	65679	99.64
791	231	0.35	61832	93.80	836	15	0.02	65694	99.66
792	211	0.32	62043	94.12	837	19	0.03	65713	99.69
793	236	0.36	62279	94.48	838	10	0.02	65723	99.71
794	225	0.34	62504	94.82	839	13	0.02	65736	99.73
795	176	0.27	62680	95.09	840	16	0.02	65752	99.75
796	194	0.29	62874	95.38	841	9	0.01	65761	99.76
797	243	0.37	63117	95.75	842	28	0.04	65789	99.81
798	150	0.23	63267	95.98	843	6	0.01	65795	99.81
799	163	0.25	63430	96.23	845	3	0.00	65798	99.82
800	128	0.19	63558	96.42	846	24	0.04	65822	99.86
801	139	0.21	63697	96.63	848	3	0.00	65825	99.86
802	122	0.19	63819	96.82	849	8	0.01	65833	99.87
803	141	0.21	63960	97.03	850	84	0.13	65917	100.00
804	148	0.22	64108	97.26					
805	110	0.17	64218	97.42					
806	91	0.14	64309	97.56					
807	95	0.14	64404	97.70					
808	92	0.14	64496	97.84					
809	83	0.13	64579	97.97					
810	88	0.13	64667	98.10					
811	85	0.13	64752	98.23					
812	75	0.11	64827	98.35					
813	58	0.09	64885	98.43					
814	69	0.10	64954	98.54					
815	80	0.12	65034	98.66					
816	52	0.08	65086	98.74					
817	48	0.07	65134	98.81					
818	51	0.08	65185	98.89					
819	45	0.07	65230	98.96					
820	42	0.06	65272	99.02					
821	48	0.07	65320	99.09					
822	52	0.08	65372	99.17					
823	25	0.04	65397	99.21					
824	49	0.07	65446	99.29					
825	19	0.03	65465	99.31					
826	37	0.06	65502	99.37					
827	29	0.04	65531	99.41					
828	22	0.03	65553	99.45					
829	13	0.02	65566	99.47					

Table 75. Mathematics Grade 6 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	189	0.29	189	0.29	695	481	0.74	7266	11.24	740	698	1.08	39218	60.66
651	28	0.04	217	0.34	696	469	0.73	7735	11.96	741	744	1.15	39962	61.81
652	5	0.01	222	0.34	697	532	0.82	8267	12.79	742	752	1.16	40714	62.98
653	22	0.03	244	0.38	698	516	0.80	8783	13.59	743	704	1.09	41418	64.07
654	21	0.03	265	0.41	699	541	0.84	9324	14.42	744	663	1.03	42081	65.09
655	14	0.02	279	0.43	700	578	0.89	9902	15.32	745	689	1.07	42770	66.16
656	17	0.03	296	0.46	701	605	0.94	10507	16.25	746	651	1.01	43421	67.16
657	20	0.03	316	0.49	702	604	0.93	11111	17.19	747	728	1.13	44149	68.29
658	45	0.07	361	0.56	703	606	0.94	11717	18.12	748	691	1.07	44840	69.36
659	43	0.07	404	0.62	704	618	0.96	12335	19.08	749	710	1.10	45550	70.46
660	31	0.05	435	0.67	705	673	1.04	13008	20.12	750	647	1.00	46197	71.46
661	37	0.06	472	0.73	706	698	1.08	13706	21.20	751	634	0.98	46831	72.44
662	35	0.05	507	0.78	707	709	1.10	14415	22.30	752	684	1.06	47515	73.50
663	43	0.07	550	0.85	708	699	1.08	15114	23.38	753	610	0.94	48125	74.44
664	63	0.10	613	0.95	709	659	1.02	15773	24.40	754	606	0.94	48731	75.38
665	47	0.07	660	1.02	710	723	1.12	16496	25.52	755	567	0.88	49298	76.25
666	55	0.09	715	1.11	711	726	1.12	17222	26.64	756	625	0.97	49923	77.22
667	58	0.09	773	1.20	712	727	1.12	17949	27.76	757	562	0.87	50485	78.09
668	71	0.11	844	1.31	713	734	1.14	18683	28.90	758	581	0.90	51066	78.99
669	58	0.09	902	1.40	714	763	1.18	19446	30.08	759	549	0.85	51615	79.84
670	75	0.12	977	1.51	715	763	1.18	20209	31.26	760	556	0.86	52171	80.70
671	93	0.14	1070	1.66	716	790	1.22	20999	32.48	761	607	0.94	52778	81.64
672	118	0.18	1188	1.84	717	739	1.14	21738	33.62	762	521	0.81	53299	82.44
673	135	0.21	1323	2.05	718	851	1.32	22589	34.94	763	539	0.83	53838	83.28
674	114	0.18	1437	2.22	719	750	1.16	23339	36.10	764	542	0.84	54380	84.12
675	118	0.18	1555	2.41	720	752	1.16	24091	37.26	765	523	0.81	54903	84.92
676	166	0.26	1721	2.66	721	789	1.22	24880	38.48	766	470	0.73	55373	85.65
677	137	0.21	1858	2.87	722	806	1.25	25686	39.73	767	485	0.75	55858	86.40
678	160	0.25	2018	3.12	723	778	1.20	26464	40.93	768	496	0.77	56354	87.17
679	194	0.30	2212	3.42	724	723	1.12	27187	42.05	769	405	0.63	56759	87.80
680	165	0.26	2377	3.68	725	787	1.22	27974	43.27	770	405	0.63	57164	88.42
681	193	0.30	2570	3.98	726	831	1.29	28805	44.56	771	406	0.63	57570	89.05
682	255	0.39	2825	4.37	727	720	1.11	29525	45.67	772	399	0.62	57969	89.67
683	221	0.34	3046	4.71	728	743	1.15	30268	46.82	773	392	0.61	58361	90.27
684	266	0.41	3312	5.12	729	825	1.28	31093	48.10	774	369	0.57	58730	90.84
685	263	0.41	3575	5.53	730	754	1.17	31847	49.26	775	319	0.49	59049	91.34
686	268	0.41	3843	5.94	731	767	1.19	32614	50.45	776	346	0.54	59395	91.87
687	311	0.48	4154	6.43	732	746	1.15	33360	51.60	777	291	0.45	59686	92.32
688	320	0.49	4474	6.92	733	737	1.14	34097	52.74	778	261	0.40	59947	92.73
689	329	0.51	4803	7.43	734	726	1.12	34823	53.86	779	293	0.45	60240	93.18
690	376	0.58	5179	8.01	735	713	1.10	35536	54.97	780	302	0.47	60542	93.65
691	374	0.58	5553	8.59	736	763	1.18	36299	56.15	781	260	0.40	60802	94.05
692	414	0.64	5967	9.23	737	773	1.20	37072	57.34	782	245	0.38	61047	94.43
693	423	0.65	6390	9.88	738	731	1.13	37803	58.47	783	250	0.39	61297	94.82
694	395	0.61	6785	10.50	739	717	1.11	38520	59.58	784	225	0.35	61522	95.16

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

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	212	0.33	61734	95.49	830	11	0.02	64521	99.80
786	176	0.27	61910	95.76	831	8	0.01	64529	99.81
787	177	0.27	62087	96.04	832	4	0.01	64533	99.82
788	171	0.26	62258	96.30	833	7	0.01	64540	99.83
789	152	0.24	62410	96.54	834	3	0.00	64543	99.84
790	144	0.22	62554	96.76	835	15	0.02	64558	99.86
791	125	0.19	62679	96.95	836	3	0.00	64561	99.86
792	137	0.21	62816	97.16	837	7	0.01	64568	99.87
793	123	0.19	62939	97.35	838	5	0.01	64573	99.88
794	127	0.20	63066	97.55	839	4	0.01	64577	99.89
795	114	0.18	63180	97.73	840	5	0.01	64582	99.90
796	111	0.17	63291	97.90	841	2	0.00	64584	99.90
797	115	0.18	63406	98.08	842	6	0.01	64590	99.91
798	78	0.12	63484	98.20	844	2	0.00	64592	99.91
799	85	0.13	63569	98.33	845	1	0.00	64593	99.91
800	76	0.12	63645	98.45	846	3	0.00	64596	99.92
801	65	0.10	63710	98.55	847	3	0.00	64599	99.92
802	82	0.13	63792	98.67	848	4	0.01	64603	99.93
803	51	0.08	63843	98.75	849	4	0.01	64607	99.94
804	63	0.10	63906	98.85	850	42	0.06	64649	100.00
805	40	0.06	63946	98.91					
806	42	0.06	63988	98.98					
807	45	0.07	64033	99.05					
808	38	0.06	64071	99.11					
809	43	0.07	64114	99.17					
810	39	0.06	64153	99.23					
811	31	0.05	64184	99.28					
812	34	0.05	64218	99.33					
813	34	0.05	64252	99.39					
814	31	0.05	64283	99.43					
815	16	0.02	64299	99.46					
816	21	0.03	64320	99.49					
817	27	0.04	64347	99.53					
818	16	0.02	64363	99.56					
819	19	0.03	64382	99.59					
820	19	0.03	64401	99.62					
821	19	0.03	64420	99.65					
822	13	0.02	64433	99.67					
823	10	0.02	64443	99.68					
824	16	0.02	64459	99.71					
825	16	0.02	64475	99.73					
826	12	0.02	64487	99.75					
827	14	0.02	64501	99.77					
828	6	0.01	64507	99.78					
829	3	0.00	64510	99.78					

Table 77. Mathematics Grade 7 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	344	0.55	344	0.55	696	319	0.51	5598	8.92	741	775	1.23	36752	58.53
651	3	0.00	347	0.55	697	402	0.64	6000	9.56	742	768	1.22	37520	59.76
652	14	0.02	361	0.57	698	420	0.67	6420	10.22	743	773	1.23	38293	60.99
654	60	0.10	421	0.67	699	372	0.59	6792	10.82	744	749	1.19	39042	62.18
655	7	0.01	428	0.68	700	473	0.75	7265	11.57	745	811	1.29	39853	63.47
656	48	0.08	476	0.76	701	470	0.75	7735	12.32	746	774	1.23	40627	64.70
657	2	0.00	478	0.76	702	472	0.75	8207	13.07	747	748	1.19	41375	65.90
658	1	0.00	479	0.76	703	565	0.90	8772	13.97	748	771	1.23	42146	67.12
659	1	0.00	480	0.76	704	556	0.89	9328	14.86	749	808	1.29	42954	68.41
660	8	0.01	488	0.78	705	519	0.83	9847	15.68	750	741	1.18	43695	69.59
661	27	0.04	515	0.82	706	587	0.93	10434	16.62	751	774	1.23	44469	70.82
662	30	0.05	545	0.87	707	619	0.99	11053	17.60	752	723	1.15	45192	71.97
663	64	0.10	609	0.97	708	610	0.97	11663	18.57	753	722	1.15	45914	73.12
664	20	0.03	629	1.00	709	595	0.95	12258	19.52	754	687	1.09	46601	74.22
665	50	0.08	679	1.08	710	628	1.00	12886	20.52	755	691	1.10	47292	75.32
666	45	0.07	724	1.15	711	680	1.08	13566	21.61	756	704	1.12	47996	76.44
667	104	0.17	828	1.32	712	664	1.06	14230	22.66	757	644	1.03	48640	77.47
668	35	0.06	863	1.37	713	677	1.08	14907	23.74	758	630	1.00	49270	78.47
669	44	0.07	907	1.44	714	721	1.15	15628	24.89	759	611	0.97	49881	79.44
670	97	0.15	1004	1.60	715	700	1.11	16328	26.00	760	611	0.97	50492	80.42
671	104	0.17	1108	1.76	716	688	1.10	17016	27.10	761	565	0.90	51057	81.32
672	38	0.06	1146	1.83	717	730	1.16	17746	28.26	762	559	0.89	51616	82.21
673	88	0.14	1234	1.97	718	730	1.16	18476	29.43	763	542	0.86	52158	83.07
674	67	0.11	1301	2.07	719	742	1.18	19218	30.61	764	527	0.84	52685	83.91
675	65	0.10	1366	2.18	720	730	1.16	19948	31.77	765	559	0.89	53244	84.80
676	87	0.14	1453	2.31	721	825	1.31	20773	33.08	766	527	0.84	53771	85.64
677	131	0.21	1584	2.52	722	808	1.29	21581	34.37	767	506	0.81	54277	86.44
678	94	0.15	1678	2.67	723	783	1.25	22364	35.62	768	465	0.74	54742	87.18
679	72	0.11	1750	2.79	724	768	1.22	23132	36.84	769	478	0.76	55220	87.95
680	98	0.16	1848	2.94	725	836	1.33	23968	38.17	770	461	0.73	55681	88.68
681	204	0.32	2052	3.27	726	784	1.25	24752	39.42	771	454	0.72	56135	89.40
682	136	0.22	2188	3.48	727	806	1.28	25558	40.70	772	412	0.66	56547	90.06
683	208	0.33	2396	3.82	728	802	1.28	26360	41.98	773	434	0.69	56981	90.75
684	122	0.19	2518	4.01	729	843	1.34	27203	43.32	774	417	0.66	57398	91.41
685	204	0.32	2722	4.34	730	815	1.30	28018	44.62	775	342	0.54	57740	91.96
686	164	0.26	2886	4.60	731	848	1.35	28866	45.97	776	332	0.53	58072	92.49
687	187	0.30	3073	4.89	732	763	1.22	29629	47.19	777	319	0.51	58391	93.00
688	210	0.33	3283	5.23	733	828	1.32	30457	48.51	778	263	0.42	58654	93.41
689	239	0.38	3522	5.61	734	837	1.33	31294	49.84	779	257	0.41	58911	93.82
690	272	0.43	3794	6.04	735	815	1.30	32109	51.14	780	271	0.43	59182	94.26
691	267	0.43	4061	6.47	736	777	1.24	32886	52.38	781	244	0.39	59426	94.64
692	290	0.46	4351	6.93	737	802	1.28	33688	53.65	782	228	0.36	59654	95.01
693	328	0.52	4679	7.45	738	733	1.17	34421	54.82	783	226	0.36	59880	95.37
694	242	0.39	4921	7.84	739	764	1.22	35185	56.04	784	210	0.33	60090	95.70
695	358	0.57	5279	8.41	740	792	1.26	35977	57.30	785	182	0.29	60272	95.99

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

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
786	173	0.28	60445	96.27	831	5	0.01	62717	99.89
787	198	0.32	60643	96.58	832	2	0.00	62719	99.89
788	138	0.22	60781	96.80	833	6	0.01	62725	99.90
789	170	0.27	60951	97.07	834	4	0.01	62729	99.90
790	150	0.24	61101	97.31	835	2	0.00	62731	99.91
791	123	0.20	61224	97.51	836	3	0.00	62734	99.91
792	120	0.19	61344	97.70	837	6	0.01	62740	99.92
793	126	0.20	61470	97.90	838	2	0.00	62742	99.93
794	99	0.16	61569	98.06	840	9	0.01	62751	99.94
795	100	0.16	61669	98.22	841	1	0.00	62752	99.94
796	91	0.14	61760	98.36	843	1	0.00	62753	99.94
797	75	0.12	61835	98.48	844	1	0.00	62754	99.94
798	82	0.13	61917	98.61	845	1	0.00	62755	99.95
799	77	0.12	61994	98.73	846	1	0.00	62756	99.95
800	54	0.09	62048	98.82	848	7	0.01	62763	99.96
801	60	0.10	62108	98.92	849	3	0.00	62766	99.96
802	54	0.09	62162	99.00	850	23	0.04	62789	100.00
803	58	0.09	62220	99.09					
804	49	0.08	62269	99.17					
805	36	0.06	62305	99.23					
806	38	0.06	62343	99.29					
807	30	0.05	62373	99.34					
808	31	0.05	62404	99.39					
809	27	0.04	62431	99.43					
810	32	0.05	62463	99.48					
811	24	0.04	62487	99.52					
812	29	0.05	62516	99.57					
813	14	0.02	62530	99.59					
814	12	0.02	62542	99.61					
815	20	0.03	62562	99.64					
816	18	0.03	62580	99.67					
817	16	0.03	62596	99.69					
818	11	0.02	62607	99.71					
819	11	0.02	62618	99.73					
820	10	0.02	62628	99.74					
821	18	0.03	62646	99.77					
822	7	0.01	62653	99.78					
823	15	0.02	62668	99.81					
824	7	0.01	62675	99.82					
825	4	0.01	62679	99.82					
826	9	0.01	62688	99.84					
827	5	0.01	62693	99.85					
828	3	0.00	62696	99.85					
829	12	0.02	62708	99.87					
830	4	0.01	62712	99.88					

Table 79. Mathematics Grade 8 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	991	1.68	991	1.68	695	327	0.56	10437	17.73	740	566	0.96	32235	54.77
651	97	0.16	1088	1.85	696	343	0.58	10780	18.31	741	538	0.91	32773	55.68
652	70	0.12	1158	1.97	697	358	0.61	11138	18.92	742	556	0.94	33329	56.62
653	65	0.11	1223	2.08	698	364	0.62	11502	19.54	743	570	0.97	33899	57.59
654	55	0.09	1278	2.17	699	377	0.64	11879	20.18	744	583	0.99	34482	58.58
655	74	0.13	1352	2.30	700	397	0.67	12276	20.86	745	563	0.96	35045	59.54
656	81	0.14	1433	2.43	701	431	0.73	12707	21.59	746	535	0.91	35580	60.45
657	83	0.14	1516	2.58	702	406	0.69	13113	22.28	747	538	0.91	36118	61.36
658	108	0.18	1624	2.76	703	396	0.67	13509	22.95	748	521	0.89	36639	62.25
659	124	0.21	1748	2.97	704	439	0.75	13948	23.70	749	516	0.88	37155	63.12
660	107	0.18	1855	3.15	705	435	0.74	14383	24.44	750	543	0.92	37698	64.05
661	116	0.20	1971	3.35	706	463	0.79	14846	25.22	751	523	0.89	38221	64.94
662	130	0.22	2101	3.57	707	427	0.73	15273	25.95	752	514	0.87	38735	65.81
663	114	0.19	2215	3.76	708	459	0.78	15732	26.73	753	513	0.87	39248	66.68
664	115	0.20	2330	3.96	709	447	0.76	16179	27.49	754	522	0.89	39770	67.57
665	127	0.22	2457	4.17	710	479	0.81	16658	28.30	755	454	0.77	40224	68.34
666	163	0.28	2620	4.45	711	434	0.74	17092	29.04	756	486	0.83	40710	69.16
667	177	0.30	2797	4.75	712	488	0.83	17580	29.87	757	472	0.80	41182	69.97
668	198	0.34	2995	5.09	713	472	0.80	18052	30.67	758	513	0.87	41695	70.84
669	199	0.34	3194	5.43	714	493	0.84	18545	31.51	759	452	0.77	42147	71.61
670	182	0.31	3376	5.74	715	498	0.85	19043	32.35	760	440	0.75	42587	72.35
671	166	0.28	3542	6.02	716	474	0.81	19517	33.16	761	458	0.78	43045	73.13
672	208	0.35	3750	6.37	717	460	0.78	19977	33.94	762	473	0.80	43518	73.93
673	169	0.29	3919	6.66	718	489	0.83	20466	34.77	763	410	0.70	43928	74.63
674	231	0.39	4150	7.05	719	476	0.81	20942	35.58	764	439	0.75	44367	75.38
675	222	0.38	4372	7.43	720	530	0.90	21472	36.48	765	431	0.73	44798	76.11
676	234	0.40	4606	7.83	721	535	0.91	22007	37.39	766	387	0.66	45185	76.77
677	219	0.37	4825	8.20	722	462	0.78	22469	38.17	767	396	0.67	45581	77.44
678	254	0.43	5079	8.63	723	504	0.86	22973	39.03	768	391	0.66	45972	78.10
679	284	0.48	5363	9.11	724	483	0.82	23456	39.85	769	420	0.71	46392	78.82
680	268	0.46	5631	9.57	725	518	0.88	23974	40.73	770	390	0.66	46782	79.48
681	245	0.42	5876	9.98	726	509	0.86	24483	41.60	771	381	0.65	47163	80.13
682	296	0.50	6172	10.49	727	529	0.90	25012	42.49	772	382	0.65	47545	80.78
683	260	0.44	6432	10.93	728	512	0.87	25524	43.36	773	357	0.61	47902	81.38
684	293	0.50	6725	11.43	729	600	1.02	26124	44.38	774	364	0.62	48266	82.00
685	336	0.57	7061	12.00	730	530	0.90	26654	45.28	775	340	0.58	48606	82.58
686	353	0.60	7414	12.60	731	571	0.97	27225	46.25	776	345	0.59	48951	83.17
687	319	0.54	7733	13.14	732	589	1.00	27814	47.25	777	328	0.56	49279	83.72
688	331	0.56	8064	13.70	733	541	0.92	28355	48.17	778	340	0.58	49619	84.30
689	342	0.58	8406	14.28	734	554	0.94	28909	49.11	779	314	0.53	49933	84.83
690	359	0.61	8765	14.89	735	541	0.92	29450	50.03	780	300	0.51	50233	85.34
691	317	0.54	9082	15.43	736	613	1.04	30063	51.08	781	297	0.50	50530	85.85
692	365	0.62	9447	16.05	737	517	0.88	30580	51.95	782	332	0.56	50862	86.41
693	317	0.54	9764	16.59	738	560	0.95	31140	52.91	783	279	0.47	51141	86.89
694	346	0.59	10110	17.18	739	529	0.90	31669	53.80	784	303	0.51	51444	87.40

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

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	261	0.44	51705	87.84	830	43	0.07	58187	98.86
786	259	0.44	51964	88.28	831	33	0.06	58220	98.91
787	264	0.45	52228	88.73	832	41	0.07	58261	98.98
788	262	0.45	52490	89.18	833	42	0.07	58303	99.05
789	276	0.47	52766	89.65	834	28	0.05	58331	99.10
790	247	0.42	53013	90.07	835	20	0.03	58351	99.14
791	270	0.46	53283	90.52	836	24	0.04	58375	99.18
792	252	0.43	53535	90.95	837	35	0.06	58410	99.24
793	233	0.40	53768	91.35	838	22	0.04	58432	99.27
794	227	0.39	53995	91.73	839	23	0.04	58455	99.31
795	224	0.38	54219	92.12	840	24	0.04	58479	99.35
796	223	0.38	54442	92.49	841	20	0.03	58499	99.39
797	198	0.34	54640	92.83	842	15	0.03	58514	99.41
798	223	0.38	54863	93.21	843	20	0.03	58534	99.45
799	187	0.32	55050	93.53	844	19	0.03	58553	99.48
800	157	0.27	55207	93.79	845	23	0.04	58576	99.52
801	185	0.31	55392	94.11	846	20	0.03	58596	99.55
802	162	0.28	55554	94.38	847	19	0.03	58615	99.58
803	176	0.30	55730	94.68	848	16	0.03	58631	99.61
804	162	0.28	55892	94.96	849	22	0.04	58653	99.65
805	149	0.25	56041	95.21	850	207	0.35	58860	100.00
806	135	0.23	56176	95.44					
807	141	0.24	56317	95.68					
808	127	0.22	56444	95.90					
809	122	0.21	56566	96.10					
810	132	0.22	56698	96.33					
811	123	0.21	56821	96.54					
812	92	0.16	56913	96.69					
813	104	0.18	57017	96.87					
814	101	0.17	57118	97.04					
815	85	0.14	57203	97.18					
816	91	0.15	57294	97.34					
817	87	0.15	57381	97.49					
818	94	0.16	57475	97.65					
819	96	0.16	57571	97.81					
820	70	0.12	57641	97.93					
821	68	0.12	57709	98.04					
822	56	0.10	57765	98.14					
823	68	0.12	57833	98.26					
824	66	0.11	57899	98.37					
825	52	0.09	57951	98.46					
826	58	0.10	58009	98.55					
827	44	0.07	58053	98.63					
828	52	0.09	58105	98.72					
829	39	0.07	58144	98.78					

Table 81. ELA Grade 3 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	719	1.18	719	1.18	695	336	0.55	9095	14.96	740	595	0.98	30607	50.35
651	51	0.08	770	1.27	696	354	0.58	9449	15.54	741	559	0.92	31166	51.26
652	54	0.09	824	1.36	697	341	0.56	9790	16.10	742	574	0.94	31740	52.21
653	59	0.10	883	1.45	698	346	0.57	10136	16.67	743	556	0.91	32296	53.12
654	66	0.11	949	1.56	699	357	0.59	10493	17.26	744	546	0.90	32842	54.02
655	71	0.12	1020	1.68	700	384	0.63	10877	17.89	745	588	0.97	33430	54.99
656	69	0.11	1089	1.79	701	387	0.64	11264	18.53	746	601	0.99	34031	55.98
657	75	0.12	1164	1.91	702	385	0.63	11649	19.16	747	552	0.91	34583	56.89
658	79	0.13	1243	2.04	703	382	0.63	12031	19.79	748	566	0.93	35149	57.82
659	91	0.15	1334	2.19	704	385	0.63	12416	20.42	749	549	0.90	35698	58.72
660	111	0.18	1445	2.38	705	416	0.68	12832	21.11	750	574	0.94	36272	59.66
661	80	0.13	1525	2.51	706	382	0.63	13214	21.74	751	587	0.97	36859	60.63
662	100	0.16	1625	2.67	707	438	0.72	13652	22.46	752	572	0.94	37431	61.57
663	103	0.17	1728	2.84	708	398	0.65	14050	23.11	753	556	0.91	37987	62.48
664	119	0.20	1847	3.04	709	402	0.66	14452	23.77	754	541	0.89	38528	63.37
665	120	0.20	1967	3.24	710	428	0.70	14880	24.48	755	546	0.90	39074	64.27
666	138	0.23	2105	3.46	711	446	0.73	15326	25.21	756	573	0.94	39647	65.22
667	137	0.23	2242	3.69	712	456	0.75	15782	25.96	757	554	0.91	40201	66.13
668	133	0.22	2375	3.91	713	479	0.79	16261	26.75	758	545	0.90	40746	67.02
669	133	0.22	2508	4.13	714	458	0.75	16719	27.50	759	567	0.93	41313	67.96
670	139	0.23	2647	4.35	715	467	0.77	17186	28.27	760	499	0.82	41812	68.78
671	176	0.29	2823	4.64	716	430	0.71	17616	28.98	761	519	0.85	42331	69.63
672	169	0.28	2992	4.92	717	520	0.86	18136	29.83	762	552	0.91	42883	70.54
673	188	0.31	3180	5.23	718	501	0.82	18637	30.66	763	570	0.94	43453	71.48
674	214	0.35	3394	5.58	719	471	0.77	19108	31.43	764	490	0.81	43943	72.28
675	210	0.35	3604	5.93	720	518	0.85	19626	32.28	765	510	0.84	44453	73.12
676	205	0.34	3809	6.27	721	461	0.76	20087	33.04	766	517	0.85	44970	73.97
677	236	0.39	4045	6.65	722	488	0.80	20575	33.84	767	482	0.79	45452	74.76
678	213	0.35	4258	7.00	723	531	0.87	21106	34.72	768	482	0.79	45934	75.56
679	238	0.39	4496	7.40	724	514	0.85	21620	35.56	769	503	0.83	46437	76.38
680	251	0.41	4747	7.81	725	538	0.88	22158	36.45	770	447	0.74	46884	77.12
681	204	0.34	4951	8.14	726	517	0.85	22675	37.30	771	440	0.72	47324	77.84
682	254	0.42	5205	8.56	727	559	0.92	23234	38.22	772	474	0.78	47798	78.62
683	266	0.44	5471	9.00	728	570	0.94	23804	39.16	773	395	0.65	48193	79.27
684	278	0.46	5749	9.46	729	521	0.86	24325	40.01	774	407	0.67	48600	79.94
685	255	0.42	6004	9.88	730	509	0.84	24834	40.85	775	416	0.68	49016	80.63
686	259	0.43	6263	10.30	731	568	0.93	25402	41.78	776	399	0.66	49415	81.28
687	294	0.48	6557	10.79	732	574	0.94	25976	42.73	777	436	0.72	49851	82.00
688	304	0.50	6861	11.29	733	573	0.94	26549	43.67	778	378	0.62	50229	82.62
689	294	0.48	7155	11.77	734	599	0.99	27148	44.66	779	373	0.61	50602	83.24
690	289	0.48	7444	12.24	735	581	0.96	27729	45.61	780	351	0.58	50953	83.81
691	328	0.54	7772	12.78	736	587	0.97	28316	46.58	781	401	0.66	51354	84.47
692	327	0.54	8099	13.32	737	582	0.96	28898	47.53	782	349	0.57	51703	85.05
693	334	0.55	8433	13.87	738	559	0.92	29457	48.45	783	324	0.53	52027	85.58
694	326	0.54	8759	14.41	739	555	0.91	30012	49.37	784	323	0.53	52350	86.11

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

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	321	0.53	52671	86.64	830	50	0.08	59881	98.50
786	326	0.54	52997	87.17	831	49	0.08	59930	98.58
787	324	0.53	53321	87.71	832	57	0.09	59987	98.67
788	287	0.47	53608	88.18	833	32	0.05	60019	98.73
789	262	0.43	53870	88.61	834	44	0.07	60063	98.80
790	293	0.48	54163	89.09	835	46	0.08	60109	98.87
791	264	0.43	54427	89.53	836	49	0.08	60158	98.95
792	240	0.39	54667	89.92	837	46	0.08	60204	99.03
793	269	0.44	54936	90.36	838	30	0.05	60234	99.08
794	268	0.44	55204	90.81	839	48	0.08	60282	99.16
795	211	0.35	55415	91.15	840	26	0.04	60308	99.20
796	250	0.41	55665	91.56	841	24	0.04	60332	99.24
797	220	0.36	55885	91.93	842	27	0.04	60359	99.28
798	251	0.41	56136	92.34	843	28	0.05	60387	99.33
799	217	0.36	56353	92.70	844	22	0.04	60409	99.37
800	198	0.33	56551	93.02	845	25	0.04	60434	99.41
801	211	0.35	56762	93.37	846	32	0.05	60466	99.46
802	191	0.31	56953	93.68	847	21	0.03	60487	99.50
803	162	0.27	57115	93.95	848	14	0.02	60501	99.52
804	173	0.28	57288	94.23	849	16	0.03	60517	99.54
805	154	0.25	57442	94.49	850	277	0.46	60794	100.00
806	144	0.24	57586	94.72					
807	160	0.26	57746	94.99					
808	152	0.25	57898	95.24					
809	153	0.25	58051	95.49					
810	130	0.21	58181	95.70					
811	136	0.22	58317	95.93					
812	125	0.21	58442	96.13					
813	144	0.24	58586	96.37					
814	102	0.17	58688	96.54					
815	114	0.19	58802	96.72					
816	96	0.16	58898	96.88					
817	87	0.14	58985	97.02					
818	90	0.15	59075	97.17					
819	99	0.16	59174	97.34					
820	67	0.11	59241	97.45					
821	72	0.12	59313	97.56					
822	78	0.13	59391	97.69					
823	77	0.13	59468	97.82					
824	69	0.11	59537	97.93					
825	54	0.09	59591	98.02					
826	59	0.10	59650	98.12					
827	58	0.10	59708	98.21					
828	69	0.11	59777	98.33					
829	54	0.09	59831	98.42					

Table 83. ELA Grade 4 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	367	0.58	367	0.58	695	255	0.40	6325	10.00	740	668	1.06	26348	41.65
651	35	0.06	402	0.64	696	276	0.44	6601	10.44	741	690	1.09	27038	42.74
652	26	0.04	428	0.68	697	288	0.46	6889	10.89	742	657	1.04	27695	43.78
653	29	0.05	457	0.72	698	289	0.46	7178	11.35	743	728	1.15	28423	44.93
654	32	0.05	489	0.77	699	314	0.50	7492	11.84	744	685	1.08	29108	46.02
655	45	0.07	534	0.84	700	298	0.47	7790	12.31	745	760	1.20	29868	47.22
656	37	0.06	571	0.90	701	276	0.44	8066	12.75	746	765	1.21	30633	48.43
657	37	0.06	608	0.96	702	276	0.44	8342	13.19	747	710	1.12	31343	49.55
658	44	0.07	652	1.03	703	305	0.48	8647	13.67	748	761	1.20	32104	50.75
659	56	0.09	708	1.12	704	292	0.46	8939	14.13	749	773	1.22	32877	51.97
660	50	0.08	758	1.20	705	317	0.50	9256	14.63	750	727	1.15	33604	53.12
661	52	0.08	810	1.28	706	262	0.41	9518	15.05	751	748	1.18	34352	54.31
662	67	0.11	877	1.39	707	364	0.58	9882	15.62	752	739	1.17	35091	55.47
663	65	0.10	942	1.49	708	326	0.52	10208	16.14	753	714	1.13	35805	56.60
664	75	0.12	1017	1.61	709	310	0.49	10518	16.63	754	769	1.22	36574	57.82
665	82	0.13	1099	1.74	710	366	0.58	10884	17.21	755	735	1.16	37309	58.98
666	88	0.14	1187	1.88	711	348	0.55	11232	17.76	756	777	1.23	38086	60.21
667	90	0.14	1277	2.02	712	372	0.59	11604	18.34	757	781	1.23	38867	61.44
668	97	0.15	1374	2.17	713	398	0.63	12002	18.97	758	757	1.20	39624	62.64
669	105	0.17	1479	2.34	714	374	0.59	12376	19.56	759	756	1.20	40380	63.83
670	116	0.18	1595	2.52	715	392	0.62	12768	20.18	760	778	1.23	41158	65.06
671	110	0.17	1705	2.70	716	400	0.63	13168	20.82	761	755	1.19	41913	66.26
672	111	0.18	1816	2.87	717	423	0.67	13591	21.49	762	712	1.13	42625	67.38
673	106	0.17	1922	3.04	718	407	0.64	13998	22.13	763	716	1.13	43341	68.52
674	141	0.22	2063	3.26	719	422	0.67	14420	22.80	764	729	1.15	44070	69.67
675	129	0.20	2192	3.47	720	445	0.70	14865	23.50	765	679	1.07	44749	70.74
676	150	0.24	2342	3.70	721	459	0.73	15324	24.22	766	713	1.13	45462	71.87
677	153	0.24	2495	3.94	722	461	0.73	15785	24.95	767	647	1.02	46109	72.89
678	171	0.27	2666	4.21	723	501	0.79	16286	25.75	768	637	1.01	46746	73.90
679	160	0.25	2826	4.47	724	488	0.77	16774	26.52	769	686	1.08	47432	74.98
680	171	0.27	2997	4.74	725	492	0.78	17266	27.30	770	636	1.01	48068	75.99
681	194	0.31	3191	5.04	726	490	0.77	17756	28.07	771	566	0.89	48634	76.88
682	178	0.28	3369	5.33	727	548	0.87	18304	28.94	772	634	1.00	49268	77.89
683	189	0.30	3558	5.62	728	567	0.90	18871	29.83	773	582	0.92	49850	78.81
684	208	0.33	3766	5.95	729	568	0.90	19439	30.73	774	563	0.89	50413	79.70
685	202	0.32	3968	6.27	730	574	0.91	20013	31.64	775	531	0.84	50944	80.53
686	209	0.33	4177	6.60	731	567	0.90	20580	32.53	776	534	0.84	51478	81.38
687	231	0.37	4408	6.97	732	619	0.98	21199	33.51	777	530	0.84	52008	82.22
688	227	0.36	4635	7.33	733	604	0.95	21803	34.47	778	545	0.86	52553	83.08
689	212	0.34	4847	7.66	734	602	0.95	22405	35.42	779	466	0.74	53019	83.82
690	218	0.34	5065	8.01	735	652	1.03	23057	36.45	780	460	0.73	53479	84.54
691	247	0.39	5312	8.40	736	675	1.07	23732	37.52	781	480	0.76	53959	85.30
692	246	0.39	5558	8.79	737	636	1.01	24368	38.52	782	443	0.70	54402	86.00
693	232	0.37	5790	9.15	738	629	0.99	24997	39.52	783	417	0.66	54819	86.66
694	280	0.44	6070	9.60	739	683	1.08	25680	40.60	784	407	0.64	55226	87.30

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

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	451	0.71	55677	88.02	830	47	0.07	62790	99.26
786	410	0.65	56087	88.67	831	25	0.04	62815	99.30
787	363	0.57	56450	89.24	832	29	0.05	62844	99.35
788	381	0.60	56831	89.84	833	23	0.04	62867	99.38
789	333	0.53	57164	90.37	834	30	0.05	62897	99.43
790	304	0.48	57468	90.85	835	19	0.03	62916	99.46
791	299	0.47	57767	91.32	836	29	0.05	62945	99.51
792	304	0.48	58071	91.80	837	18	0.03	62963	99.54
793	253	0.40	58324	92.20	838	19	0.03	62982	99.57
794	256	0.40	58580	92.61	839	18	0.03	63000	99.59
795	282	0.45	58862	93.05	840	20	0.03	63020	99.63
796	235	0.37	59097	93.42	841	16	0.03	63036	99.65
797	247	0.39	59344	93.81	842	15	0.02	63051	99.67
798	218	0.34	59562	94.16	843	19	0.03	63070	99.70
799	229	0.36	59791	94.52	844	17	0.03	63087	99.73
800	203	0.32	59994	94.84	845	9	0.01	63096	99.75
801	192	0.30	60186	95.15	846	12	0.02	63108	99.76
802	147	0.23	60333	95.38	847	12	0.02	63120	99.78
803	164	0.26	60497	95.64	848	8	0.01	63128	99.80
804	165	0.26	60662	95.90	849	5	0.01	63133	99.80
805	179	0.28	60841	96.18	850	124	0.20	63257	100.00
806	137	0.22	60978	96.40					
807	132	0.21	61110	96.61					
808	133	0.21	61243	96.82					
809	118	0.19	61361	97.00					
810	105	0.17	61466	97.17					
811	125	0.20	61591	97.37					
812	111	0.18	61702	97.54					
813	112	0.18	61814	97.72					
814	97	0.15	61911	97.87					
815	72	0.11	61983	97.99					
816	94	0.15	62077	98.13					
817	78	0.12	62155	98.26					
818	60	0.09	62215	98.35					
819	49	0.08	62264	98.43					
820	64	0.10	62328	98.53					
821	60	0.09	62388	98.63					
822	53	0.08	62441	98.71					
823	49	0.08	62490	98.79					
824	51	0.08	62541	98.87					
825	52	0.08	62593	98.95					
826	37	0.06	62630	99.01					
827	39	0.06	62669	99.07					
828	37	0.06	62706	99.13					
829	37	0.06	62743	99.19					

Table 85. ELA Grade 5 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	234	0.36	234	0.36	695	297	0.45	4715	7.17	740	749	1.14	27320	41.55
651	12	0.02	246	0.37	696	280	0.43	4995	7.60	741	699	1.06	28019	42.61
652	18	0.03	264	0.40	697	299	0.45	5294	8.05	742	684	1.04	28703	43.65
653	14	0.02	278	0.42	698	287	0.44	5581	8.49	743	754	1.15	29457	44.80
654	25	0.04	303	0.46	699	346	0.53	5927	9.01	744	722	1.10	30179	45.89
655	22	0.03	325	0.49	700	338	0.51	6265	9.53	745	691	1.05	30870	46.95
656	21	0.03	346	0.53	701	313	0.48	6578	10.00	746	745	1.13	31615	48.08
657	19	0.03	365	0.56	702	384	0.58	6962	10.59	747	794	1.21	32409	49.29
658	24	0.04	389	0.59	703	346	0.53	7308	11.11	748	773	1.18	33182	50.46
659	16	0.02	405	0.62	704	371	0.56	7679	11.68	749	752	1.14	33934	51.61
660	24	0.04	429	0.65	705	355	0.54	8034	12.22	750	755	1.15	34689	52.75
661	28	0.04	457	0.69	706	425	0.65	8459	12.86	751	742	1.13	35431	53.88
662	40	0.06	497	0.76	707	394	0.60	8853	13.46	752	743	1.13	36174	55.01
663	35	0.05	532	0.81	708	395	0.60	9248	14.06	753	728	1.11	36902	56.12
664	35	0.05	567	0.86	709	459	0.70	9707	14.76	754	745	1.13	37647	57.25
665	39	0.06	606	0.92	710	436	0.66	10143	15.42	755	736	1.12	38383	58.37
666	44	0.07	650	0.99	711	429	0.65	10572	16.08	756	746	1.13	39129	59.51
667	57	0.09	707	1.08	712	428	0.65	11000	16.73	757	776	1.18	39905	60.69
668	55	0.08	762	1.16	713	457	0.69	11457	17.42	758	733	1.11	40638	61.80
669	60	0.09	822	1.25	714	492	0.75	11949	18.17	759	757	1.15	41395	62.95
670	72	0.11	894	1.36	715	496	0.75	12445	18.93	760	689	1.05	42084	64.00
671	62	0.09	956	1.45	716	478	0.73	12923	19.65	761	786	1.20	42870	65.19
672	68	0.10	1024	1.56	717	455	0.69	13378	20.34	762	746	1.13	43616	66.33
673	85	0.13	1109	1.69	718	524	0.80	13902	21.14	763	756	1.15	44372	67.48
674	67	0.10	1176	1.79	719	496	0.75	14398	21.90	764	750	1.14	45122	68.62
675	86	0.13	1262	1.92	720	499	0.76	14897	22.65	765	722	1.10	45844	69.72
676	93	0.14	1355	2.06	721	537	0.82	15434	23.47	766	702	1.07	46546	70.78
677	100	0.15	1455	2.21	722	582	0.89	16016	24.36	767	660	1.00	47206	71.79
678	85	0.13	1540	2.34	723	577	0.88	16593	25.23	768	672	1.02	47878	72.81
679	127	0.19	1667	2.54	724	535	0.81	17128	26.05	769	717	1.09	48595	73.90
680	94	0.14	1761	2.68	725	528	0.80	17656	26.85	770	654	0.99	49249	74.90
681	97	0.15	1858	2.83	726	591	0.90	18247	27.75	771	607	0.92	49856	75.82
682	131	0.20	1989	3.02	727	542	0.82	18789	28.57	772	677	1.03	50533	76.85
683	130	0.20	2119	3.22	728	614	0.93	19403	29.51	773	629	0.96	51162	77.80
684	171	0.26	2290	3.48	729	608	0.92	20011	30.43	774	613	0.93	51775	78.74
685	163	0.25	2453	3.73	730	626	0.95	20637	31.38	775	588	0.89	52363	79.63
686	159	0.24	2612	3.97	731	633	0.96	21270	32.35	776	586	0.89	52949	80.52
687	190	0.29	2802	4.26	732	654	0.99	21924	33.34	777	570	0.87	53519	81.39
688	196	0.30	2998	4.56	733	627	0.95	22551	34.29	778	558	0.85	54077	82.24
689	213	0.32	3211	4.88	734	665	1.01	23216	35.31	779	479	0.73	54556	82.97
690	198	0.30	3409	5.18	735	660	1.00	23876	36.31	780	523	0.80	55079	83.76
691	216	0.33	3625	5.51	736	667	1.01	24543	37.32	781	491	0.75	55570	84.51
692	269	0.41	3894	5.92	737	673	1.02	25216	38.35	782	547	0.83	56117	85.34
693	262	0.40	4156	6.32	738	677	1.03	25893	39.38	783	476	0.72	56593	86.06
694	262	0.40	4418	6.72	739	678	1.03	26571	40.41	784	474	0.72	57067	86.78

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

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	447	0.68	57514	87.46	830	36	0.05	65389	99.44
786	411	0.63	57925	88.09	831	30	0.05	65419	99.49
787	436	0.66	58361	88.75	832	26	0.04	65445	99.53
788	420	0.64	58781	89.39	833	28	0.04	65473	99.57
789	371	0.56	59152	89.96	834	23	0.03	65496	99.60
790	349	0.53	59501	90.49	835	24	0.04	65520	99.64
791	350	0.53	59851	91.02	836	19	0.03	65539	99.67
792	343	0.52	60194	91.54	837	21	0.03	65560	99.70
793	342	0.52	60536	92.06	838	18	0.03	65578	99.73
794	309	0.47	60845	92.53	839	17	0.03	65595	99.75
795	296	0.45	61141	92.98	840	18	0.03	65613	99.78
796	276	0.42	61417	93.40	841	13	0.02	65626	99.80
797	265	0.40	61682	93.80	842	11	0.02	65637	99.82
798	244	0.37	61926	94.17	843	8	0.01	65645	99.83
799	239	0.36	62165	94.54	844	11	0.02	65656	99.85
800	206	0.31	62371	94.85	845	6	0.01	65662	99.86
801	218	0.33	62589	95.18	846	15	0.02	65677	99.88
802	214	0.33	62803	95.51	847	10	0.02	65687	99.89
803	197	0.30	63000	95.81	848	5	0.01	65692	99.90
804	148	0.23	63148	96.03	849	9	0.01	65701	99.91
805	168	0.26	63316	96.29	850	56	0.09	65757	100.00
806	160	0.24	63476	96.53					
807	177	0.27	63653	96.80					
808	149	0.23	63802	97.03					
809	136	0.21	63938	97.23					
810	127	0.19	64065	97.43					
811	143	0.22	64208	97.64					
812	121	0.18	64329	97.83					
813	97	0.15	64426	97.98					
814	74	0.11	64500	98.09					
815	82	0.12	64582	98.21					
816	98	0.15	64680	98.36					
817	70	0.11	64750	98.47					
818	72	0.11	64822	98.58					
819	65	0.10	64887	98.68					
820	54	0.08	64941	98.76					
821	62	0.09	65003	98.85					
822	59	0.09	65062	98.94					
823	60	0.09	65122	99.03					
824	45	0.07	65167	99.10					
825	37	0.06	65204	99.16					
826	40	0.06	65244	99.22					
827	42	0.06	65286	99.28					
828	39	0.06	65325	99.34					
829	28	0.04	65353	99.39					

Table 87. ELA Grade 6 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	309	0.48	309	0.48	695	268	0.42	5199	8.06	740	766	1.19	29274	45.39
651	13	0.02	322	0.50	696	285	0.44	5484	8.50	741	759	1.18	30033	46.57
652	22	0.03	344	0.53	697	271	0.42	5755	8.92	742	813	1.26	30846	47.83
653	21	0.03	365	0.57	698	294	0.46	6049	9.38	743	784	1.22	31630	49.04
654	16	0.02	381	0.59	699	280	0.43	6329	9.81	744	747	1.16	32377	50.20
655	17	0.03	398	0.62	700	319	0.49	6648	10.31	745	783	1.21	33160	51.42
656	26	0.04	424	0.66	701	320	0.50	6968	10.80	746	839	1.30	33999	52.72
657	25	0.04	449	0.70	702	366	0.57	7334	11.37	747	825	1.28	34824	54.00
658	22	0.03	471	0.73	703	345	0.53	7679	11.91	748	782	1.21	35606	55.21
659	38	0.06	509	0.79	704	396	0.61	8075	12.52	749	778	1.21	36384	56.42
660	38	0.06	547	0.85	705	381	0.59	8456	13.11	750	764	1.18	37148	57.60
661	34	0.05	581	0.90	706	358	0.56	8814	13.67	751	766	1.19	37914	58.79
662	47	0.07	628	0.97	707	416	0.65	9230	14.31	752	757	1.17	38671	59.96
663	42	0.07	670	1.04	708	404	0.63	9634	14.94	753	765	1.19	39436	61.15
664	53	0.08	723	1.12	709	423	0.66	10057	15.59	754	805	1.25	40241	62.40
665	58	0.09	781	1.21	710	443	0.69	10500	16.28	755	834	1.29	41075	63.69
666	51	0.08	832	1.29	711	432	0.67	10932	16.95	756	776	1.20	41851	64.89
667	51	0.08	883	1.37	712	491	0.76	11423	17.71	757	783	1.21	42634	66.11
668	51	0.08	934	1.45	713	485	0.75	11908	18.46	758	714	1.11	43348	67.21
669	57	0.09	991	1.54	714	531	0.82	12439	19.29	759	705	1.09	44053	68.31
670	68	0.11	1059	1.64	715	516	0.80	12955	20.09	760	705	1.09	44758	69.40
671	86	0.13	1145	1.78	716	509	0.79	13464	20.88	761	703	1.09	45461	70.49
672	81	0.13	1226	1.90	717	555	0.86	14019	21.74	762	720	1.12	46181	71.61
673	99	0.15	1325	2.05	718	528	0.82	14547	22.56	763	667	1.03	46848	72.64
674	102	0.16	1427	2.21	719	540	0.84	15087	23.39	764	685	1.06	47533	73.70
675	125	0.19	1552	2.41	720	577	0.89	15664	24.29	765	650	1.01	48183	74.71
676	124	0.19	1676	2.60	721	599	0.93	16263	25.22	766	679	1.05	48862	75.76
677	108	0.17	1784	2.77	722	597	0.93	16860	26.14	767	666	1.03	49528	76.80
678	122	0.19	1906	2.96	723	617	0.96	17477	27.10	768	644	1.00	50172	77.80
679	120	0.19	2026	3.14	724	629	0.98	18106	28.07	769	630	0.98	50802	78.77
680	135	0.21	2161	3.35	725	668	1.04	18774	29.11	770	583	0.90	51385	79.68
681	152	0.24	2313	3.59	726	619	0.96	19393	30.07	771	602	0.93	51987	80.61
682	152	0.24	2465	3.82	727	649	1.01	20042	31.08	772	572	0.89	52559	81.50
683	153	0.24	2618	4.06	728	708	1.10	20750	32.17	773	539	0.84	53098	82.33
684	171	0.27	2789	4.32	729	652	1.01	21402	33.19	774	525	0.81	53623	83.15
685	192	0.30	2981	4.62	730	667	1.03	22069	34.22	775	492	0.76	54115	83.91
686	185	0.29	3166	4.91	731	723	1.12	22792	35.34	776	513	0.80	54628	84.71
687	210	0.33	3376	5.23	732	685	1.06	23477	36.40	777	464	0.72	55092	85.42
688	185	0.29	3561	5.52	733	734	1.14	24211	37.54	778	481	0.75	55573	86.17
689	221	0.34	3782	5.86	734	682	1.06	24893	38.60	779	438	0.68	56011	86.85
690	215	0.33	3997	6.20	735	739	1.15	25632	39.74	780	470	0.73	56481	87.58
691	222	0.34	4219	6.54	736	689	1.07	26321	40.81	781	414	0.64	56895	88.22
692	240	0.37	4459	6.91	737	690	1.07	27011	41.88	782	459	0.71	57354	88.93
693	235	0.36	4694	7.28	738	771	1.20	27782	43.08	783	391	0.61	57745	89.54
694	237	0.37	4931	7.65	739	726	1.13	28508	44.20	784	390	0.60	58135	90.14

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

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	374	0.58	58509	90.72	830	5	0.01	64326	99.74
786	351	0.54	58860	91.27	831	12	0.02	64338	99.76
787	333	0.52	59193	91.78	832	14	0.02	64352	99.78
788	321	0.50	59514	92.28	833	10	0.02	64362	99.80
789	302	0.47	59816	92.75	834	14	0.02	64376	99.82
790	260	0.40	60076	93.15	835	8	0.01	64384	99.83
791	256	0.40	60332	93.55	836	10	0.02	64394	99.85
792	238	0.37	60570	93.92	837	6	0.01	64400	99.86
793	241	0.37	60811	94.29	838	8	0.01	64408	99.87
794	254	0.39	61065	94.69	839	5	0.01	64413	99.88
795	226	0.35	61291	95.04	840	12	0.02	64425	99.90
796	214	0.33	61505	95.37	841	6	0.01	64431	99.91
797	218	0.34	61723	95.71	842	8	0.01	64439	99.92
798	183	0.28	61906	95.99	843	6	0.01	64445	99.93
799	193	0.30	62099	96.29	844	4	0.01	64449	99.93
800	177	0.27	62276	96.56	845	7	0.01	64456	99.94
801	156	0.24	62432	96.81	846	2	0.00	64458	99.95
802	130	0.20	62562	97.01	848	1	0.00	64459	99.95
803	125	0.19	62687	97.20	849	4	0.01	64463	99.96
804	143	0.22	62830	97.42	850	29	0.04	64492	100.00
805	134	0.21	62964	97.63					
806	123	0.19	63087	97.82					
807	112	0.17	63199	98.00					
808	89	0.14	63288	98.13					
809	95	0.15	63383	98.28					
810	85	0.13	63468	98.41					
811	92	0.14	63560	98.55					
812	80	0.12	63640	98.68					
813	71	0.11	63711	98.79					
814	66	0.10	63777	98.89					
815	50	0.08	63827	98.97					
816	61	0.09	63888	99.06					
817	40	0.06	63928	99.13					
818	64	0.10	63992	99.22					
819	38	0.06	64030	99.28					
820	47	0.07	64077	99.36					
821	36	0.06	64113	99.41					
822	34	0.05	64147	99.47					
823	29	0.04	64176	99.51					
824	38	0.06	64214	99.57					
825	28	0.04	64242	99.61					
826	28	0.04	64270	99.66					
827	16	0.02	64286	99.68					
828	18	0.03	64304	99.71					
829	17	0.03	64321	99.73					

Table 89. ELA Grade 7 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	350	0.56	350	0.56	695	328	0.52	7005	11.18	740	529	0.84	27767	44.33
651	17	0.03	367	0.59	696	352	0.56	7357	11.74	741	629	1.00	28396	45.33
652	31	0.05	398	0.64	697	351	0.56	7708	12.30	742	614	0.98	29010	46.31
653	29	0.05	427	0.68	698	308	0.49	8016	12.80	743	632	1.01	29642	47.32
654	43	0.07	470	0.75	699	345	0.55	8361	13.35	744	644	1.03	30286	48.35
655	44	0.07	514	0.82	700	348	0.56	8709	13.90	745	679	1.08	30965	49.43
656	52	0.08	566	0.90	701	333	0.53	9042	14.43	746	647	1.03	31612	50.46
657	42	0.07	608	0.97	702	369	0.59	9411	15.02	747	600	0.96	32212	51.42
658	33	0.05	641	1.02	703	363	0.58	9774	15.60	748	645	1.03	32857	52.45
659	49	0.08	690	1.10	704	371	0.59	10145	16.19	749	638	1.02	33495	53.47
660	58	0.09	748	1.19	705	374	0.60	10519	16.79	750	584	0.93	34079	54.40
661	40	0.06	788	1.26	706	377	0.60	10896	17.39	751	619	0.99	34698	55.39
662	70	0.11	858	1.37	707	397	0.63	11293	18.03	752	649	1.04	35347	56.43
663	68	0.11	926	1.48	708	382	0.61	11675	18.64	753	607	0.97	35954	57.39
664	72	0.11	998	1.59	709	389	0.62	12064	19.26	754	663	1.06	36617	58.45
665	77	0.12	1075	1.72	710	388	0.62	12452	19.88	755	586	0.94	37203	59.39
666	77	0.12	1152	1.84	711	449	0.72	12901	20.59	756	631	1.01	37834	60.40
667	94	0.15	1246	1.99	712	480	0.77	13381	21.36	757	641	1.02	38475	61.42
668	79	0.13	1325	2.12	713	400	0.64	13781	22.00	758	632	1.01	39107	62.43
669	101	0.16	1426	2.28	714	417	0.67	14198	22.66	759	587	0.94	39694	63.36
670	107	0.17	1533	2.45	715	431	0.69	14629	23.35	760	631	1.01	40325	64.37
671	115	0.18	1648	2.63	716	472	0.75	15101	24.11	761	638	1.02	40963	65.39
672	119	0.19	1767	2.82	717	430	0.69	15531	24.79	762	613	0.98	41576	66.37
673	143	0.23	1910	3.05	718	477	0.76	16008	25.55	763	598	0.95	42174	67.32
674	147	0.23	2057	3.28	719	481	0.77	16489	26.32	764	584	0.93	42758	68.26
675	161	0.26	2218	3.54	720	429	0.68	16918	27.01	765	577	0.92	43335	69.18
676	160	0.26	2378	3.80	721	504	0.80	17422	27.81	766	586	0.94	43921	70.11
677	164	0.26	2542	4.06	722	505	0.81	17927	28.62	767	555	0.89	44476	71.00
678	198	0.32	2740	4.37	723	493	0.79	18420	29.40	768	557	0.89	45033	71.89
679	162	0.26	2902	4.63	724	510	0.81	18930	30.22	769	530	0.85	45563	72.73
680	184	0.29	3086	4.93	725	502	0.80	19432	31.02	770	549	0.88	46112	73.61
681	200	0.32	3286	5.25	726	509	0.81	19941	31.83	771	530	0.85	46642	74.46
682	218	0.35	3504	5.59	727	518	0.83	20459	32.66	772	525	0.84	47167	75.29
683	205	0.33	3709	5.92	728	549	0.88	21008	33.54	773	532	0.85	47699	76.14
684	233	0.37	3942	6.29	729	559	0.89	21567	34.43	774	486	0.78	48185	76.92
685	218	0.35	4160	6.64	730	521	0.83	22088	35.26	775	513	0.82	48698	77.74
686	230	0.37	4390	7.01	731	562	0.90	22650	36.16	776	500	0.80	49198	78.54
687	270	0.43	4660	7.44	732	504	0.80	23154	36.96	777	483	0.77	49681	79.31
688	225	0.36	4885	7.80	733	546	0.87	23700	37.83	778	472	0.75	50153	80.06
689	290	0.46	5175	8.26	734	591	0.94	24291	38.78	779	435	0.69	50588	80.75
690	306	0.49	5481	8.75	735	602	0.96	24893	39.74	780	504	0.80	51092	81.56
691	281	0.45	5762	9.20	736	562	0.90	25455	40.63	781	466	0.74	51558	82.30
692	302	0.48	6064	9.68	737	598	0.95	26053	41.59	782	457	0.73	52015	83.03
693	289	0.46	6353	10.14	738	589	0.94	26642	42.53	783	409	0.65	52424	83.69
694	324	0.52	6677	10.66	739	596	0.95	27238	43.48	784	420	0.67	52844	84.36

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

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	400	0.64	53244	84.99	830	58	0.09	61906	98.82
786	405	0.65	53649	85.64	831	43	0.07	61949	98.89
787	394	0.63	54043	86.27	832	49	0.08	61998	98.97
788	397	0.63	54440	86.90	833	44	0.07	62042	99.04
789	370	0.59	54810	87.49	834	46	0.07	62088	99.11
790	363	0.58	55173	88.07	835	37	0.06	62125	99.17
791	342	0.55	55515	88.62	836	33	0.05	62158	99.22
792	362	0.58	55877	89.20	837	33	0.05	62191	99.28
793	332	0.53	56209	89.73	838	22	0.04	62213	99.31
794	320	0.51	56529	90.24	839	30	0.05	62243	99.36
795	289	0.46	56818	90.70	840	22	0.04	62265	99.39
796	282	0.45	57100	91.15	841	24	0.04	62289	99.43
797	288	0.46	57388	91.61	842	34	0.05	62323	99.49
798	263	0.42	57651	92.03	843	25	0.04	62348	99.53
799	255	0.41	57906	92.44	844	20	0.03	62368	99.56
800	269	0.43	58175	92.87	845	17	0.03	62385	99.59
801	227	0.36	58402	93.23	846	19	0.03	62404	99.62
802	216	0.34	58618	93.57	847	13	0.02	62417	99.64
803	221	0.35	58839	93.93	848	16	0.03	62433	99.66
804	204	0.33	59043	94.25	849	20	0.03	62453	99.70
805	192	0.31	59235	94.56	850	191	0.30	62644	100.00
806	188	0.30	59423	94.86					
807	169	0.27	59592	95.13					
808	171	0.27	59763	95.40					
809	168	0.27	59931	95.67					
810	161	0.26	60092	95.93					
811	143	0.23	60235	96.15					
812	136	0.22	60371	96.37					
813	128	0.20	60499	96.58					
814	121	0.19	60620	96.77					
815	116	0.19	60736	96.95					
816	113	0.18	60849	97.13					
817	107	0.17	60956	97.31					
818	114	0.18	61070	97.49					
819	89	0.14	61159	97.63					
820	72	0.11	61231	97.74					
821	87	0.14	61318	97.88					
822	67	0.11	61385	97.99					
823	80	0.13	61465	98.12					
824	75	0.12	61540	98.24					
825	74	0.12	61614	98.36					
826	66	0.11	61680	98.46					
827	58	0.09	61738	98.55					
828	58	0.09	61796	98.65					
829	52	0.08	61848	98.73					

Table 91. ELA Grade 8 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	402	0.68	402	0.68	695	328	0.56	7543	12.83	740	527	0.90	26237	44.62
651	37	0.06	439	0.75	696	306	0.52	7849	13.35	741	516	0.88	26753	45.49
652	38	0.06	477	0.81	697	296	0.50	8145	13.85	742	563	0.96	27316	46.45
653	36	0.06	513	0.87	698	312	0.53	8457	14.38	743	512	0.87	27828	47.32
654	42	0.07	555	0.94	699	340	0.58	8797	14.96	744	555	0.94	28383	48.26
655	39	0.07	594	1.01	700	338	0.57	9135	15.53	745	547	0.93	28930	49.19
656	52	0.09	646	1.10	701	302	0.51	9437	16.05	746	559	0.95	29489	50.15
657	58	0.10	704	1.20	702	347	0.59	9784	16.64	747	564	0.96	30053	51.10
658	59	0.10	763	1.30	703	345	0.59	10129	17.22	748	590	1.00	30643	52.11
659	64	0.11	827	1.41	704	313	0.53	10442	17.76	749	560	0.95	31203	53.06
660	62	0.11	889	1.51	705	357	0.61	10799	18.36	750	535	0.91	31738	53.97
661	67	0.11	956	1.63	706	317	0.54	11116	18.90	751	580	0.99	32318	54.96
662	70	0.12	1026	1.74	707	346	0.59	11462	19.49	752	609	1.04	32927	55.99
663	77	0.13	1103	1.88	708	366	0.62	11828	20.11	753	556	0.95	33483	56.94
664	87	0.15	1190	2.02	709	360	0.61	12188	20.73	754	546	0.93	34029	57.87
665	107	0.18	1297	2.21	710	374	0.64	12562	21.36	755	574	0.98	34603	58.84
666	93	0.16	1390	2.36	711	384	0.65	12946	22.01	756	570	0.97	35173	59.81
667	124	0.21	1514	2.57	712	350	0.60	13296	22.61	757	585	0.99	35758	60.81
668	114	0.19	1628	2.77	713	389	0.66	13685	23.27	758	552	0.94	36310	61.74
669	115	0.20	1743	2.96	714	351	0.60	14036	23.87	759	607	1.03	36917	62.78
670	122	0.21	1865	3.17	715	382	0.65	14418	24.52	760	526	0.89	37443	63.67
671	144	0.24	2009	3.42	716	447	0.76	14865	25.28	761	531	0.90	37974	64.57
672	151	0.26	2160	3.67	717	386	0.66	15251	25.93	762	566	0.96	38540	65.54
673	150	0.26	2310	3.93	718	412	0.70	15663	26.63	763	535	0.91	39075	66.45
674	157	0.27	2467	4.20	719	439	0.75	16102	27.38	764	531	0.90	39606	67.35
675	155	0.26	2622	4.46	720	397	0.68	16499	28.06	765	569	0.97	40175	68.32
676	183	0.31	2805	4.77	721	442	0.75	16941	28.81	766	513	0.87	40688	69.19
677	190	0.32	2995	5.09	722	417	0.71	17358	29.52	767	523	0.89	41211	70.08
678	170	0.29	3165	5.38	723	482	0.82	17840	30.34	768	545	0.93	41756	71.01
679	194	0.33	3359	5.71	724	475	0.81	18315	31.14	769	543	0.92	42299	71.93
680	193	0.33	3552	6.04	725	430	0.73	18745	31.88	770	506	0.86	42805	72.79
681	240	0.41	3792	6.45	726	454	0.77	19199	32.65	771	465	0.79	43270	73.58
682	216	0.37	4008	6.82	727	502	0.85	19701	33.50	772	472	0.80	43742	74.38
683	261	0.44	4269	7.26	728	468	0.80	20169	34.30	773	470	0.80	44212	75.18
684	249	0.42	4518	7.68	729	475	0.81	20644	35.10	774	440	0.75	44652	75.93
685	268	0.46	4786	8.14	730	496	0.84	21140	35.95	775	497	0.85	45149	76.77
686	229	0.39	5015	8.53	731	469	0.80	21609	36.75	776	484	0.82	45633	77.60
687	249	0.42	5264	8.95	732	469	0.80	22078	37.54	777	488	0.83	46121	78.43
688	255	0.43	5519	9.38	733	559	0.95	22637	38.49	778	415	0.71	46536	79.13
689	254	0.43	5773	9.82	734	487	0.83	23124	39.32	779	459	0.78	46995	79.91
690	293	0.50	6066	10.32	735	478	0.81	23602	40.13	780	423	0.72	47418	80.63
691	270	0.46	6336	10.77	736	503	0.86	24105	40.99	781	412	0.70	47830	81.33
692	297	0.51	6633	11.28	737	552	0.94	24657	41.93	782	412	0.70	48242	82.03
693	306	0.52	6939	11.80	738	538	0.91	25195	42.84	783	410	0.70	48652	82.73
694	276	0.47	7215	12.27	739	515	0.88	25710	43.72	784	427	0.73	49079	83.46

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

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
785	336	0.57	49415	84.03	830	63	0.11	57970	98.58
786	383	0.65	49798	84.68	831	49	0.08	58019	98.66
787	369	0.63	50167	85.31	832	60	0.10	58079	98.76
788	348	0.59	50515	85.90	833	46	0.08	58125	98.84
789	367	0.62	50882	86.52	834	39	0.07	58164	98.91
790	307	0.52	51189	87.05	835	31	0.05	58195	98.96
791	311	0.53	51500	87.57	836	35	0.06	58230	99.02
792	321	0.55	51821	88.12	837	34	0.06	58264	99.08
793	295	0.50	52116	88.62	838	46	0.08	58310	99.15
794	324	0.55	52440	89.17	839	33	0.06	58343	99.21
795	276	0.47	52716	89.64	840	28	0.05	58371	99.26
796	264	0.45	52980	90.09	841	28	0.05	58399	99.31
797	292	0.50	53272	90.59	842	27	0.05	58426	99.35
798	256	0.44	53528	91.02	843	24	0.04	58450	99.39
799	225	0.38	53753	91.41	844	25	0.04	58475	99.44
800	240	0.41	53993	91.81	845	18	0.03	58493	99.47
801	234	0.40	54227	92.21	846	17	0.03	58510	99.49
802	222	0.38	54449	92.59	847	18	0.03	58528	99.53
803	218	0.37	54667	92.96	848	21	0.04	58549	99.56
804	191	0.32	54858	93.28	849	19	0.03	58568	99.59
805	194	0.33	55052	93.61	850	239	0.41	58807	100.00
806	201	0.34	55253	93.96					
807	186	0.32	55439	94.27					
808	164	0.28	55603	94.55					
809	174	0.30	55777	94.85					
810	169	0.29	55946	95.13					
811	157	0.27	56103	95.40					
812	156	0.27	56259	95.67					
813	162	0.28	56421	95.94					
814	119	0.20	56540	96.15					
815	123	0.21	56663	96.35					
816	125	0.21	56788	96.57					
817	133	0.23	56921	96.79					
818	93	0.16	57014	96.95					
819	107	0.18	57121	97.13					
820	110	0.19	57231	97.32					
821	91	0.15	57322	97.47					
822	87	0.15	57409	97.62					
823	90	0.15	57499	97.78					
824	68	0.12	57567	97.89					
825	85	0.14	57652	98.04					
826	75	0.13	57727	98.16					
827	57	0.10	57784	98.26					
828	60	0.10	57844	98.36					
829	63	0.11	57907	98.47					

Table 93. CSLA Grade 3 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	11	0.64	11	0.64	769	26	1.52	1598	93.45
668	18	1.05	29	1.70	770	13	0.76	1611	94.21
678	27	1.58	56	3.27	773	15	0.88	1626	95.09
686	22	1.29	78	4.56	775	13	0.76	1639	95.85
692	33	1.93	111	6.49	777	10	0.58	1649	96.43
696	34	1.99	145	8.48	779	10	0.58	1659	97.02
700	31	1.81	176	10.29	782	14	0.82	1673	97.84
704	42	2.46	218	12.75	785	7	0.41	1680	98.25
707	40	2.34	258	15.09	788	9	0.53	1689	98.77
710	43	2.51	301	17.60	792	7	0.41	1696	99.18
712	49	2.87	350	20.47	795	3	0.18	1699	99.36
715	53	3.10	403	23.57	800	3	0.18	1702	99.53
717	40	2.34	443	25.91	812	5	0.29	1707	99.82
719	50	2.92	493	28.83	820	1	0.06	1708	99.88
721	49	2.87	542	31.70	832	2	0.12	1710	100.00
723	32	1.87	574	33.57					
725	58	3.39	632	36.96					
726	45	2.63	677	39.59					
728	42	2.46	719	42.05					
730	45	2.63	764	44.68					
731	33	1.93	797	46.61					
733	44	2.57	841	49.18					
734	45	2.63	886	51.81					
736	42	2.46	928	54.27					
737	46	2.69	974	56.96					
738	43	2.51	1017	59.47					
740	30	1.75	1047	61.23					
741	33	1.93	1080	63.16					
743	35	2.05	1115	65.20					
744	30	1.75	1145	66.96					
745	30	1.75	1175	68.71					
747	27	1.58	1202	70.29					
748	37	2.16	1239	72.46					
750	53	3.10	1292	75.56					
751	27	1.58	1319	77.13					
752	32	1.87	1351	79.01					
754	31	1.81	1382	80.82					
755	25	1.46	1407	82.28					
757	29	1.70	1436	83.98					
758	29	1.70	1465	85.67					
760	26	1.52	1491	87.19					
762	21	1.23	1512	88.42					
763	24	1.40	1536	89.82					

Table 94. CSLA Grade 4 Scale Score Distribution

SS	Freq	%	Cum. Freq	Cum. %	SS	Freq	%	Cum. Freq	Cum. %
650	4	0.34	4	0.34	760	9	0.77	1075	92.51
661	7	0.60	11	0.95	762	11	0.95	1086	93.46
672	9	0.77	20	1.72	763	7	0.60	1093	94.06
680	5	0.43	25	2.15	765	9	0.77	1102	94.84
686	18	1.55	43	3.70	767	9	0.77	1111	95.61
691	26	2.24	69	5.94	768	8	0.69	1119	96.30
695	25	2.15	94	8.09	770	7	0.60	1126	96.90
698	37	3.18	131	11.27	772	10	0.86	1136	97.76
700	39	3.36	170	14.63	774	3	0.26	1139	98.02
704	33	2.84	203	17.47	776	4	0.34	1143	98.36
707	20	1.72	223	19.19	778	4	0.34	1147	98.71
709	28	2.41	251	21.60	780	1	0.09	1148	98.80
711	29	2.50	280	24.10	782	5	0.43	1153	99.23
714	22	1.89	302	25.99	785	2	0.17	1155	99.40
716	33	2.84	335	28.83	787	2	0.17	1157	99.57
717	22	1.89	357	30.72	790	1	0.09	1158	99.66
719	30	2.58	387	33.30	793	2	0.17	1160	99.83
721	35	3.01	422	36.32	800	1	0.09	1161	99.91
723	25	2.15	447	38.47	804	1	0.09	1162	100.00
724	29	2.50	476	40.96					
725	31	2.67	507	43.63					
727	35	3.01	542	46.64					
729	37	3.18	579	49.83					
730	20	1.72	599	51.55					
732	30	2.58	629	54.13					
733	27	2.32	656	56.45					
735	34	2.93	690	59.38					
736	26	2.24	716	61.62					
737	27	2.32	743	63.94					
739	27	2.32	770	66.27					
740	19	1.64	789	67.90					
741	28	2.41	817	70.31					
743	20	1.72	837	72.03					
744	22	1.89	859	73.92					
745	21	1.81	880	75.73					
747	21	1.81	901	77.54					
748	20	1.72	921	79.26					
749	19	1.64	940	80.90					
750	22	1.89	962	82.79					
752	20	1.72	982	84.51					
753	19	1.64	1001	86.14					
755	15	1.29	1016	87.44					
756	25	2.15	1041	89.59					

Table 95. Scale Score Performance Summary

Content Area	Grade	N	Mean	SD	Median	2018 Scale Scores	
						Mean	SD
MATH	3	62,560	740	36.4	741	739	36.5
	4	64,474	735	32.5	734	734	33.2
	5	65,917	738	33.9	736	737	34.0
	6	64,650	732	31.0	731	733	31.3
	7	62,790	735	29.4	735	733	28.7
	8	58,863	736	41.2	735	728	37.1
ELA	3	60,796	740	40.7	740	739	39.8
	4	63,258	745	35.9	748	745	35.4
	5	65,757	747	34.1	748	746	34.1
	6	64,493	743	32.8	744	743	33.5
	7	62,645	745	38.5	746	744	39.7
	8	58,808	745	40.3	746	743	39.7
ELA – Reading Claim	3	60,796	146	16.7	146	146	16.5
	4	63,258	148	14.7	149	148	14.7
	5	65,757	149	14.0	149	148	14.1
	6	64,493	147	13.5	148	147	13.7
	7	62,645	148	15.7	148	148	16.3
	8	58,808	148	16.3	148	147	16.6
CSLA	3	1,710	733	25.7	734	736	25.1
	4	1,162	729	23.5	730	729	23.3
CSLA – Reading Claim	3	1,710	143	10.0	143	144	9.4
	4	1,162	141	8.9	141	141	8.6

Table 96. Percentage of Performance Levels

Content Area		2019 Performance Level %					2018 Performance Level %				
	Grade	1	2	3	4	5	1	2	3	4	5
MATH	3	14.30%	18.94%	25.73%	32.97%	8.05%	14.26%	19.76%	26.87%	30.98%	8.12%
	4	14.70%	24.45%	27.25%	30.70%	2.90%	15.40%	23.51%	27.24%	31.11%	2.74%
	5	13.05%	24.25%	27.02%	28.74%	6.93%	13.65%	23.12%	27.68%	29.35%	6.20%
	6	14.42%	27.63%	28.40%	25.58%	3.96%	14.11%	27.15%	28.38%	26.16%	4.19%
	7	10.82%	26.02%	31.57%	27.58%	4.01%	12.26%	24.71%	34.22%	26.03%	2.78%
	8	20.18%	19.67%	23.27%	30.67%	6.21%	22.93%	23.56%	25.35%	25.43%	2.74%
ELA	3	17.26%	18.30%	23.16%	36.77%	4.51%	17.77%	18.08%	23.79%	36.65%	3.70%
	4	11.84%	14.67%	25.46%	38.39%	9.63%	10.61%	17.22%	26.10%	35.64%	10.43%
	5	9.01%	17.03%	25.56%	42.57%	5.83%	9.87%	16.11%	26.65%	41.87%	5.51%
	6	9.81%	18.26%	28.34%	36.33%	7.25%	10.45%	18.93%	27.77%	35.11%	7.74%
	7	13.35%	16.87%	23.25%	30.89%	15.64%	14.44%	15.70%	23.29%	31.51%	15.06%
	8	14.96%	16.19%	21.92%	35.56%	11.38%	14.70%	17.15%	24.40%	33.39%	10.36%
CSLA	3	8.48%	25.09%	38.89%	23.98%	3.57%	5.88%	26.25%	40.33%	23.38%	4.16%
	4	11.27%	29.69%	39.93%	16.01%	3.10%	11.10%	29.03%	40.32%	16.70%	2.85%

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	11.8	5.3	0	22	22	53.70%
	4	11.6	6.0	0	24	23*	48.26%
	5	10.3	5.6	0	23	23	44.93%
	6	8.4	4.5	0	20	20	42.16%
	7	7.6	5.1	0	23	23	32.93%
	8	7.2	4.4	0	21	21	34.55%
Subclaim B	3	4.9	2.5	0	9	9	54.03%
	4	2.4	1.8	0	7	7	34.05%
	5	3.9	2.0	0	8	8	48.37%
	6	4.5	2.5	0	11	11	41.17%
	7	2.8	2.0	0	8	8	35.80%
	8	5.0	2.6	0	10	10	50.10%
Subclaim C	3	3.6	2.5	0	11	11	32.45%
	4	3.6	2.9	0	11	11	33.08%
	5	3.0	2.6	0	11	11	26.94%
	6	2.1	2.7	0	11	11	18.76%
	7	3.2	2.9	0	11	11	29.41%
	8	1.3	2.0	0	11	11	11.89%
Subclaim D	3	2.6	2.1	0	9	9	29.07%
	4	2.9	2.3	0	9	9	31.92%
	5	2.5	2.5	0	9	9	27.73%
	6	2.1	2.4	0	9	9	23.13%
	7	2.6	2.7	0	9	9	28.69%
	8	4.1	2.9	0	9	9	45.81%

*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	6.8	3.7	0	17	17	39.81%
	4	8.6	3.7	0	18	18*	47.89%
	5	6.4	3.9	0	18	18	35.84%
	6	7.2	3.8	0	18	18	39.84%
	7	7.4	4.1	0	18	18	41.07%
	8	8.7	4.2	0	18	18	48.29%
RI	3	7.1	3.6	0	14	14	50.54%
	4	8.7	4.0	0	18	18	48.42%
	5	7.9	3.9	0	18	18	43.80%
	6	8.4	4.2	0	22	22	38.36%
	7	9.3	4.7	0	22	22	42.34%
	8	9.3	4.6	0	22	22	42.49%
RV	3	6.0	2.5	0	10	10	60.47%
	4	4.8	2.2	0	8	8	60.63%
	5	4.3	2.1	0	8	8	54.47%
	6	4.9	2.1	0	8	8	61.55%
	7	5.1	2.6	0	10	10	50.63%
	8	3.9	2.5	0	10	10	38.94%
WE (unweighted)	3	1.2	1.1	0	6	6	19.63%
	4	1.8	1.5	0	7	7	26.34%
	5	1.3	1.4	0	7	7	19.08%
	6	2.1	1.9	0	8	8	26.02%
	7	2.3	2.0	0	8	8	29.20%
	8	2.7	2.1	0	8	8	34.49%
WKL	3	1.4	1.2	0	6	6	22.95%
	4	1.9	1.5	0	6	6	31.32%
	5	1.6	1.5	0	6	6	27.33%
	6	2.0	1.7	0	6	6	32.74%
	7	2.3	1.8	0	6	6	38.85%
	8	2.7	1.9	0	6	6	44.25%

*One item was removed from scoring in Grade 4.

Table 99. CSLA Points Earned Summary by Subclaim

Subclaim	Grade	Mean	SD	Min	Max	Max Points Possible	Average Percent Correct
RL	3	7.3	4.3	0	17	17	42.96%
	4	8.6	4.6	0	20	20	43.22%
RI	3	3.5	2.5	0	12	12*	29.56%
	4	4.5	3.1	0	17	18	24.96%
RV	3	4.2	2.9	0	10	10	42.35%
	4	2.8	2.1	0	8	8	35.25%
WE (unweighted)	3	2.1	1.6	0	6	6	35.82%
	4	2.1	1.7	0	7	7	29.66%
WKL	3	2.8	2.1	0	6	6	46.03%
	4	3.0	2.0	0	6	6	50.21%

*One item was removed from scoring in Grade 3.

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

Item	Omit %	p-value	Item– Total Corr.
1	0.00%	0.54	0.71
2	0.00%	0.25	0.60
3	0.20%	0.58	0.73
4	0.20%	0.62	0.52
5	0.10%	0.56	0.51
6	0.10%	0.79	0.55
7	0.00%	0.42	0.58
8	0.00%	0.72	0.49
9	0.10%	0.67	0.52
10	0.30%	0.32	0.31
11	0.20%	0.72	0.57
12	0.00%	0.53	0.44
13	0.70%	0.42	0.63
14	0.50%	0.44	0.54
15	0.30%	0.64	0.51
16	0.20%	0.51	0.40
17	0.10%	0.66	0.49
18	0.20%	0.25	0.41
19	0.10%	0.77	0.50
20	0.00%	0.44	0.60
21	1.00%	0.51	0.56
22	0.10%	0.53	0.49
23	0.00%	0.82	0.45
24	0.00%	0.53	0.59
25	0.10%	0.34	0.57
26	0.20%	0.48	0.40
27	0.00%	0.33	0.77
28	0.00%	0.25	0.69
29	0.00%	0.16	0.53
30	0.60%	0.38	0.65
31	0.00%	0.34	0.52
32	0.40%	0.71	0.54
33	0.10%	0.86	0.43

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%	0.36	0.73
2	0.00%	0.22	0.72
3	0.00%	0.33	0.76
4	0.70%	0.44	0.58
5	0.00%	0.25	0.70
6	0.60%	0.22	0.44
7	0.00%	0.62	0.48
8	0.00%	0.31	0.54
9	0.10%	0.41	0.64
10	0.00%	0.12	0.48
11	0.20%	0.64	0.48
12	0.20%	0.53	0.52
13	0.20%	0.52	0.46
14	0.80%	0.29	0.53
15	0.00%	0.78	0.40
16	1.10%	0.22	0.55
17	0.10%	0.41	0.46
18	0.20%	0.67	0.49
19	0.20%	0.72	0.47
20	0.00%	0.74	0.56
21	0.50%	0.44	0.51
22	0.90%	0.18	0.58
23	0.10%	0.43	0.55
24	0.00%	0.30	0.69
25	0.20%	0.49	0.70
26	0.30%	0.53	0.50
27	0.10%	0.72	0.59
28	0.00%	0.38	0.80
29	0.00%	0.41	0.73
30	0.40%	0.31	0.51

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

Item	Omit %	p-value	Item– Total Corr.
1	0.30%	0.45	0.54
2	0.50%	0.24	0.48
3	0.00%	0.45	0.34
4	0.20%	0.67	0.35
5	0.00%	0.31	0.41
6	0.20%	0.36	0.59
7	0.00%	0.18	0.59
8	0.10%	0.66	0.44
9	0.60%	0.28	0.50
10	0.50%	0.24	0.55
11	0.00%	0.30	0.55
12	0.00%	0.53	0.66
13	0.00%	0.75	0.38
14	0.10%	0.71	0.54
15	1.00%	0.41	0.58
16	0.30%	0.75	0.32
17	0.00%	0.57	0.63
18	0.30%	0.67	0.52
19	0.20%	0.40	0.64
20	0.10%	0.66	0.40
21	0.20%	0.27	0.39
22	0.00%	0.56	0.69
23	0.50%	0.42	0.63
24	0.30%	0.54	0.60
25	0.00%	0.26	0.76
26	0.00%	0.23	0.75
27	0.10%	0.70	0.47
28	1.20%	0.25	0.61
29	0.20%	0.70	0.47

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

Item	Max Point s	Omit %	0%	1%	2%	3%	4%	p- value	Item- Total Corr.
1	4	0.00	31.00	23.40	21.20	16.30	8.20	0.37	0.72
2	3	0.00	47.50	22.60	13.60	16.20		0.33	0.77
3	3	0.00	57.80	27.10	11.20	3.90		0.20	0.68

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

Item	Omit %	p-value	Item– Total Corr.
1	0.10%	0.72	0.40
2	0.50%	0.36	0.61
3	0.50%	0.62	0.42
4	0.00%	0.11	0.51
5	0.40%	0.52	0.45
6	0.00%	0.85	0.39
7	1.40%	0.23	0.51
8	1.00%	0.27	0.49
9	0.10%	0.43	0.53
10	0.70%	0.25	0.67
11	0.40%	0.53	0.48
12	0.10%	0.63	0.49
13	0.00%	0.66	0.44
14	0.60%	0.39	0.22
15	0.50%	0.63	0.39
16	0.00%	0.31	0.51
17	0.00%	0.10	0.41
18	0.10%	0.49	0.56
19	0.10%	0.27	0.42
20	0.00%	0.49	0.69
21	0.00%	0.42	0.58
22	0.20%	0.23	0.52
23	0.60%	0.29	0.66
24	0.00%	0.18	0.76
25	0.30%	0.33	0.28
26	0.90%	0.47	0.54
27	1.80%	0.32	0.63
28	0.30%	0.34	0.29

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

Item	Max Point s	Omit %	0%	1%	2%	3%	4%	p- value	Item- Total Corr.
1	3	0.00	63.90	11.90	11.10	13.00		0.24	0.72
2	4	0.00	63.10	19.50	9.10	6.00	2.20	0.16	0.71
3	4	0.00	66.40	14.00	7.20	8.30	4.00	0.17	0.71
4	3	0.00	46.40	18.00	24.70	10.80		0.33	0.68

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

Item	Omit %	p-value	Item– Total Corr.
1	0.00%	0.23	0.69
2	0.00%	0.50	0.52
3	0.10%	0.57	0.35
4	0.30%	0.12	0.47
5	0.20%	0.31	0.51
6	0.30%	0.37	0.60
7	0.00%	0.64	0.30
8	0.00%	0.51	0.55
9	0.10%	0.38	0.40
10	0.00%	0.32	0.53
11	0.10%	0.20	0.56
12	0.20%	0.48	0.45
13	0.10%	0.22	0.42
14	0.00%	0.30	0.27
15	0.00%	0.17	0.44
16	0.00%	0.39	0.50
17	0.10%	0.40	0.69
18	0.00%	0.31	0.82
19	0.50%	0.16	0.47
20	0.00%	0.18	0.31
21	0.00%	0.37	0.40
22	0.10%	0.32	0.51
23	0.40%	0.26	0.63
24	0.30%	0.24	0.72
25	0.00%	0.47	0.51
26	0.10%	0.38	0.42
27	0.30%	0.39	0.39
28	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	37.5	18	21.6	22.8		0.43	0.72
2	3	0	71.9	4.2	5.4	18.5		0.24	0.74
3	3	0	51.9	20.5	7.1	8.2	12.3	0.27	0.77

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

Item	Omit %	p-value	Item– Total Corr.
1	0.10%	0.42	0.36
2	0.00%	0.52	0.33
3	0.00%	0.67	0.52
4	0.00%	0.39	0.32
5	0.20%	0.23	0.54
6	0.00%	0.31	0.41
7	0.10%	0.42	0.33
8	0.60%	0.19	0.63
9	0.10%	0.31	0.43
10	0.00%	0.84	0.36
11	0.00%	0.26	0.43
12	0.00%	0.15	0.57
13	0.00%	0.63	0.51
14	0.10%	0.36	0.57
15	0.00%	0.20	0.65
16	0.00%	0.39	0.71
17	0.00%	0.41	0.79
18	0.10%	0.25	0.43
19	0.10%	0.52	0.46
20	0.10%	0.66	0.58
21	0.10%	0.41	0.54
22	0.00%	0.29	0.37
23	0.10%	0.47	0.32
24	0.60%	0.35	0.57
25	0.00%	0.15	0.67
26	0.80%	0.29	0.50
27	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	26.00	20.80	14.30	38.80		0.55	0.67
2	3	0.00	75.50	9.80	5.50	4.90	4.40	0.13	0.67
3	3	0.00	84.80	12.30	2.20	0.60		0.06	0.54

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

Item	Omit %	p-value	Item– Total Corr.
1	0.00%	0.56	0.58
2	0.10%	0.53	0.61
3	0.00%	0.44	0.63
4	0.10%	0.49	0.51
5	0.10%	0.40	0.52
6	0.10%	0.84	0.48
7	0.20%	0.54	0.55
8	0.20%	0.57	0.63
9	0.30%	0.39	0.57
10	0.20%	0.53	0.55
11	0.10%	0.22	0.38
12	0.10%	0.38	0.41
13	0.10%	0.29	0.30
14	0.00%	0.58	0.51
15	0.70%	0.43	0.53
16	0.10%	0.85	0.46
17	0.00%	0.68	0.56
18	0.10%	0.68	0.51
19	0.10%	0.43	0.52

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

Item	Max Point s	Omit %	0%	1%	2%	3%	4%	p- value	Item- Total Corr.
PCR 1 WE	3	3.50	59.00	33.68	3.57	0.24		0.14	0.71
PCR 1 WKL	3	3.50	43.50	44.52	7.92	0.56		0.21	0.68
PCR 2 WE	3	2.80	34.38	51.73	10.13	0.96		0.25	0.67
PCR 2 WKL	3	2.80	39.76	42.64	13.60	1.19		0.25	0.62

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

Item	Omit %	p-value	Item– Total Corr.
1	0.00%	0.39	0.39
2	0.10%	0.46	0.48
3	0.10%	0.27	0.30
4	0.00%	0.54	0.64
5	0.00%	0.65	0.42
6	0.00%	0.33	0.30
7	0.00%	0.55	0.50
8	0.00%	0.57	0.49
9	0.00%	0.51	0.46
10	0.00%	0.82	0.52
11	0.00%	0.61	0.40
12	0.00%	0.33	0.33
13	0.00%	0.64	0.65
14	0.00%	0.55	0.58
15	0.00%	0.51	0.60
16	0.00%	0.63	0.50
17	0.10%	0.53	0.49
18	0.50%	0.73	0.60
19	0.10%	0.61	0.54
20	0.10%	0.49	0.44
21	0.00%	0.39	0.39

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

Item	Max Point s	Omit %	0%	1%	2%	3%	4%	p- value	Item- Total Corr.
PCR 1 WE	3	1.40	38.68	39.34	16.32	4.25		0.28	0.73
PCR 1 WKL	3	1.40	36.79	40.56	17.31	3.94		0.29	0.73
PCR 2 WE	4	2.30	30.24	40.92	23.59	2.62	0.37	0.24	0.79
PCR 2 WKL	3	2.30	26.82	44.70	23.50	2.72		0.33	0.75

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

Item	Omit %	p-value	Item– Total Corr.
1	0.00%	0.46	0.36
2	0.20%	0.55	0.49
3	0.00%	0.33	0.33
4	0.00%	0.60	0.48
5	0.10%	0.53	0.56
6	0.00%	0.75	0.53
7	0.10%	0.48	0.55
8	0.00%	0.28	0.34
9	0.00%	0.31	0.32
10	0.00%	0.50	0.31
11	0.00%	0.61	0.47
12	0.10%	0.27	0.40
13	0.00%	0.40	0.59
14	0.00%	0.56	0.56
15	0.00%	0.40	0.45
16	0.00%	0.31	0.53
17	0.00%	0.41	0.38
18	0.00%	0.31	0.40
19	0.10%	0.55	0.54
20	0.00%	0.51	0.39

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

Item	Max Point s	Omit %	0%	1%	2%	3%	4%	p- value	Item- Total Corr.
PCR 1 WE	4	2.00	51.91	35.52	9.82	0.58	0.20	0.14	0.73
PCR 1 WKL	3	2.00	31.87	40.38	24.22	1.57		0.31	0.74
PCR 2 WE	3	1.20	48.15	32.04	13.43	5.17		0.25	0.77
PCR 2 WKL	3	1.20	51.28	29.28	13.56	4.67		0.24	0.74

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

Item	Omit %	p-value	Item– Total Corr.
1	0.00%	0.35	0.44
2	0.00%	0.41	0.45
3	0.00%	0.28	0.39
4	0.10%	0.31	0.53
5	0.00%	0.31	0.37
6	0.00%	0.50	0.46
7	0.00%	0.36	0.45
8	0.00%	0.75	0.47
9	0.00%	0.32	0.34
10	0.00%	0.71	0.54
11	0.00%	0.34	0.41
12	0.10%	0.59	0.38
13	0.10%	0.39	0.41
14	0.10%	0.54	0.41
15	0.20%	0.56	0.52
16	0.20%	0.45	0.43
17	0.20%	0.30	0.53
18	0.00%	0.66	0.51
19	0.00%	0.83	0.48
20	0.10%	0.39	0.55
21	0.00%	0.30	0.24
22	0.00%	0.245	0.46

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

Item	Max Point s	Omit %	0%	1%	2%	3%	4%	p- value	Item- Total Corr.
PCR 1 WE	4	1.80	35.16	20.10	24.24	12.68	6.04	0.33	0.82
PCR 1 WKL	3	1.80	31.61	29.04	24.26	13.32		0.39	0.82
PCR 2 WE	4	2.40	43.06	38.73	11.89	3.03	0.88	0.19	0.79
PCR 2 WKL	3	2.40	41.21	39.10	13.42	3.86		0.26	0.76

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

Item	Omit %	p-value	Item– Total Corr.
1	0.00%	0.36	0.36
2	0.00%	0.42	0.36
3	0.00%	0.34	0.49
4	0.00%	0.61	0.52
5	0.00%	0.48	0.46
6	0.00%	0.40	0.48
7	0.00%	0.68	0.41
8	0.00%	0.56	0.51
9	0.00%	0.29	0.47
10	0.00%	0.51	0.38
11	0.00%	0.37	0.57
12	0.00%	0.60	0.49
13	0.00%	0.32	0.38
14	0.00%	0.27	0.37
15	0.00%	0.34	0.50
16	0.00%	0.37	0.45
17	0.00%	0.45	0.36
18	0.10%	0.55	0.61
19	0.00%	0.69	0.56
20	0.00%	0.35	0.40
21	0.00%	0.47	0.56
22	0.00%	0.45	0.36

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	2.30	23.68	33.48	22.10	13.01	5.46	0.35	0.82
PCR 1 WKL	3	2.30	23.11	32.01	25.25	17.36		0.45	0.82
PCR 2 WE	4	3.10	37.11	33.87	18.70	5.71	1.50	0.24	0.84
PCR 2 WKL	3	3.10	31.95	38.13	19.96	6.85		0.33	0.82

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

Item	Omit %	p-value	Item– Total Corr.
1	0.00%	0.54	0.51
2	0.00%	0.33	0.37
3	0.00%	0.35	0.35
4	0.00%	0.57	0.65
5	0.00%	0.54	0.53
6	0.00%	0.46	0.45
7	0.00%	0.44	0.46
8	0.00%	0.40	0.49
9	0.00%	0.29	0.37
10	0.70%	0.44	0.48
11	0.00%	0.66	0.45
12	0.00%	0.48	0.57
13	0.00%	0.34	0.43
14	0.00%	0.55	0.49
15	0.10%	0.26	0.30
16	0.00%	0.45	0.47
17	0.00%	0.40	0.45
18	0.00%	0.42	0.28
19	0.00%	0.38	0.37
20	0.00%	0.56	0.51
21	0.00%	0.48	0.38
22	0.00%	0.61	0.43
23	0.00%	0.37	0.57

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	4.10	24.29	27.21	26.60	13.01	4.82	0.35	0.84
PCR 1 WKL	3	4.10	23.24	27.00	29.10	16.60		0.45	0.83
PCR 2 WE	4	3.40	24.56	27.86	28.85	11.43	3.95	0.34	0.85
PCR 2 WKL	3	3.40	25.31	27.87	28.47	15.01		0.43	0.83

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

Item	Omit %	Item Mean	Item– Total Corr.
1	3%	1.13	0.48
2	3%	0.78	0.40
3	3%	1.12	0.60
4	3%	0.56	0.41
5	3%	0.98	0.48
6	4%	0.61	0.41
7	5%	0.35	0.38
8	5%	0.48	0.45
9	5%	0.66	0.47
10	5%	0.40	0.25
11	4%	0.98	0.60
12	5%	0.83	0.58
13	4%	0.94	0.62
14	5%	0.95	0.57
15	2%	0.72	0.49
16	2%	0.74	0.49
17	2%	0.80	0.60
18	3%	0.92	0.36
19	3%	1.13	0.48

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	29	33	30	7	1.15	0.68
PCR 1 WKL	3	0	30	31	13	26	1.35	0.71
PCR 2 WE	3	0	45	22	22	12	1	0.62
PCR 2 WKL	3	0	29	28	15	27	1.41	0.62

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

Item	Omit %	Item Mean	Item– Total Corr.
1	10.10%	0.44	0.30
2	11.10%	0.38	0.24
3	11.80%	0.49	0.43
4	12.00%	0.41	0.28
5	1.20%	1.15	0.54
6	1.00%	1.40	0.53
7	1.00%	1.21	0.54
8	1.20%	1.09	0.50
9	1.30%	0.76	0.46
10	1.40%	0.84	0.52
11	1.30%	0.86	0.48
12	1.60%	0.78	0.48
13	1.40%	0.52	0.47
14	1.30%	0.31	0.19
15	3.70%	0.28	0.08
16	4.90%	0.54	0.29
17	5.10%	0.39	0.23
18	3.30%	0.83	0.44
19	4.00%	0.56	0.41
20	4.60%	0.92	0.51
21	4.80%	0.52	0.41

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	3	0	43	38	15	4	0	0.8	0.74
PCR 1 WKL	3	0	19	40	14	27	0	1.49	0.70
PCR 2 WE	4	0	35	22	25	15	3	1.27	0.62
PCR 2 WKL	3	0	25	28	17	30	0	1.52	0.59

Table 127. Mathematics Correlations Between Subclaims

Grade	Subclaim	B	C	D	Full Test
3	A	0.813	0.735	0.705	0.956
	B		0.687	0.661	0.889
	C			0.661	0.852
	D				0.820
4	A	0.742	0.801	0.782	0.966
	B		0.676	0.671	0.822
	C			0.728	0.893
	D				0.869
5	A	0.748	0.789	0.748	0.959
	B		0.675	0.653	0.833
	C			0.718	0.885
	D				0.859
6	A	0.735	0.751	0.718	0.939
	B		0.670	0.642	0.853
	C			0.695	0.875
	D				0.847
7	A	0.692	0.781	0.770	0.948
	B		0.654	0.648	0.802
	C			0.750	0.895
	D				0.884
8	A	0.721	0.716	0.657	0.928
	B		0.616	0.674	0.863
	C			0.556	0.807
	D				0.835

Table 128. Correlations between Reading and Writing Claim Scores

Content Area	Grade	Correlation
ELA	3	0.653
	4	0.682
	5	0.655
	6	0.717
	7	0.691
	8	0.719
CSLA	3	0.670
	4	0.705

Table 129. ELA Correlations Between Subclaims

Grade	Subclaim	RI	RV	WE	WKL	Full Test
3	RL	0.722	0.644	0.622	0.566	0.894
	RI		0.648	0.542	0.520	0.866
	RV			0.478	0.460	0.783
	WE				0.722	0.805
	WKL					0.731
4	RL	0.706	0.631	0.676	0.621	0.886
	RI		0.646	0.566	0.554	0.851
	RV			0.500	0.484	0.752
	WE				0.830	0.863
	WKL					0.805
5	RL	0.651	0.525	0.532	0.540	0.824
	RI		0.554	0.632	0.618	0.872
	RV			0.413	0.428	0.676
	WE				0.858	0.850
	WKL					0.820
6	RL	0.688	0.560	0.598	0.604	0.823
	RI		0.620	0.699	0.689	0.888
	RV			0.493	0.502	0.704
	WE				0.908	0.900
	WKL					0.876
7	RL	0.716	0.632	0.719	0.706	0.896
	RI		0.613	0.583	0.591	0.841
	RV			0.465	0.474	0.716
	WE				0.938	0.889
	WKL					0.873
8	RL	0.712	0.623	0.602	0.612	0.831
	RI		0.611	0.727	0.718	0.896
	RV			0.492	0.497	0.712
	WE				0.946	0.906
	WKL					0.893

Table 130. CSLA Correlations Between Subclaims

Grade	Subclaim	RI	RV	WE	WKL	Full Test
3	RL	0.592	0.680	0.669	0.519	0.888
	RI		0.598	0.465	0.388	0.723
	RV			0.517	0.447	0.789
	WE				0.649	0.865
	WKL					0.716
4	RL	0.554	0.548	0.745	0.491	0.899
	RI		0.524	0.471	0.314	0.719
	RV			0.473	0.288	0.679
	WE				0.571	0.890
	WKL					0.643

Table 131. Correlations Between Mathematics and ELA Scale Scores

Grade	N	Correlation
3	60,635	0.79
4	63,088	0.76
5	65,613	0.74
6	64,352	0.77
7	62,418	0.76
8	58,508	0.77

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	12	9	11	12	10	10
	Number of Items Field Tested	94	76	83	75	74	67
ELA	Number of Field Test Forms	8	16	16	16	8	16
	Number of Items Field Tested	79	108	109	121	94	136
CSLA	Number of Field Test Forms	4	2	n/a	n/a	n/a	n/a
	Number of Items Field Tested	44	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		94	76	83	75	74	67
	Number of Items Flagged and Reviewed		24	15	19	17	21	15
	Data Review Outcome	Accept Reject	22 2	15 0	14 4	14 3	17 4	12 3
ELA	Number of Items Field Tested		79	108	109	121	94	136
	Number of Items Flagged and Reviewed		15	36	38	45	47	62
	Data Review Outcome	Accept Reject	15 0	31 5	32 6	38 7	43 4	58 3
CSLA	Number of Items Field Tested		44	22	n/a	n/a	n/a	n/a
	Number of Items Flagged and Reviewed		9	3				
	Data Review Outcome	Accept Reject	8 1	3 0				