

APPENDIX 14: FORM STATISTICS

GRADE 3 MATHEMATICS

Table 14–1. Grade 3 Mathematics—Summary of 9720 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	41.9	59.0	0.99	0.33
SD	13.2	0.0	1.23	0.10
Max.	64	59	5.79	1.83
Min.	2	59	-3.69	0.27
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.36	1.18	3.31	0.92
Model	0.34	1.18	3.42	0.92

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.98

Coefficient Alpha Student Raw Score Reliability = 0.94

Table 14–2. Grade 3 Mathematics—Summary of 59 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6895.1	9720.0	0.03	0.03
SD	2118.2	0.0	0.84	0.00
Max.	18089	9720	1.64	0.03
Min.	3925	9720	-1.60	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.84	32.21	1.00
Model	0.03	0.84	32.73	1.00

SE of Item Measure Mean = 0.11

GRADE 3 READING

Table 14–3. Grade 3 Reading—Summary of 9694 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	38.3	55.0	0.96	0.35
SD	13.7	0.0	1.37	0.16
Max.	60	55	5.61	1.82
Min.	1	55	-4.18	0.27
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.40	1.31	3.25	0.91
Model	0.39	1.31	3.40	0.92

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.97

Coefficient Alpha Student Raw Score Reliability = 0.94

Table 14–4. Grade 3 Reading—Summary of 55 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6754.9	9694.0	0.08	0.03
SD	2432.0	0.0	0.78	0.00
Max.	20104	9694	2.16	0.03
Min.	3535	9694	-1.66	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.78	30.02	1.00
Model	0.03	0.78	30.67	1.00

SE of Item Measure Mean = 0.11

GRADE 3 WRITING

Table 14–5. Grade 3 Writing—Summary of 9695 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	37.4	52.0	0.80	0.34
SD	13.5	0.0	1.27	0.11
Max.	60	52	5.71	1.83
Min.	0	52	-5.39	0.27
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.37	1.22	3.31	0.92
Model	0.35	1.22	3.44	0.92

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.98

Coefficient Alpha Student Raw Score Reliability = 0.94

Table 14–6. Grade 3 Writing—Summary of 52 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6976.1	9695.0	0.05	0.02
SD	2591.1	0.0	0.55	0.00
Max.	20955	9695	1.39	0.03
Min.	4057	9695	-1.05	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.02	0.55	22.69	1.00
Model	0.02	0.55	23.15	1.00

SE of Item Measure Mean = 0.08

GRADE 4 MATHEMATICS

Table 14–7. Grade 4 Mathematics—Summary of 9554 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	42.9	59.0	1.04	0.33
SD	12.6	0.0	1.15	0.11
Max.	64	59	5.71	1.83
Min.	3	59	-3.21	0.26
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.36	1.09	3.07	0.90
Model	0.35	1.10	3.17	0.91

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.98

Coefficient Alpha Student Raw Score Reliability = 0.93

Table 14–8. Grade 4 Mathematics—Summary of 59 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6951.2	9554.0	0.03	0.03
SD	2215.2	0.0	0.79	0.00
Max.	18270	9554	1.56	0.04
Min.	3613	9554	-1.64	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.79	30.52	1.00
Model	0.03	0.79	30.91	1.00

SE of Item Measure Mean = 0.10

GRADE 4 READING

Table 14–9. Grade 4 Reading—Summary of 9550 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	37.7	55.0	.89	0.33
SD	12.4	0.0	1.19	0.08
Max.	60	55	5.84	1.83
Min.	1	55	-4.24	0.28
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.35	1.13	3.23	0.91
Model	0.34	1.14	3.34	0.92

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.99

Coefficient Alpha Student Raw Score Reliability = 0.93

Table 14–10. Grade 4 Reading—Summary of 55 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6552.6	9550.0	0.06	0.02
SD	1755.9	0.0	0.81	0.00
Max.	15123	9550.0	1.76	0.04
Min.	3587	9550.0	-1.73	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.81	31.52	1.00
Model	0.03	0.81	32.06	1.00

SE of Item Measure Mean = 0.11

GRADE 4 WRITING

Table 14–11. Grade 4 Writing—Summary of 9537 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	36.5	50.0	0.75	0.32
SD	11.1	0.0	1.06	0.05
Max.	59	50	4.94	1.05
Min.	1	50	-4.38	0.28
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.34	1.00	2.90	0.89
Model	0.33	1.01	3.09	0.90

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.99

Coefficient Alpha Student Raw Score Reliability = 0.91

Table 14–12. Grade 4 Writing—Summary of 50 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6965.0	9537.0	0.05	0.02
SD	3509.2	0.0	0.77	0.00
Max.	24716	9537	1.55	0.04
Min.	3332	9537	-2.05	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.77	30.60	1.00
Model	0.02	0.77	31.44	1.00

SE of Item Measure Mean = 0.11

GRADE 5 MATHEMATICS

Table 14–13. Grade 5 Mathematics—Summary of 9265 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	41.9	59.0	0.98	0.34
SD	13.4	0.0	1.29	0.14
Max.	64	59	5.81	1.83
Min.	2	59	-3.57	0.26
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.38	1.23	3.22	0.91
Model	0.37	1.23	3.36	0.92

SE of Student Measure Mean = 0.91

Student Raw Score-to-Measure Correlation = 0.97

Coefficient Alpha Student Raw Score Reliability = 0.94

Table 14–14. Grade 5 Mathematics—Summary of 59 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6581.0	9265.0	0.05	0.03
SD	2796.5	0.0	0.74	0.00
Max.	26033	9265	1.61	0.03
Min.	3981	9265	-1.55	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.74	28.33	1.00
Model	0.03	0.74	28.88	1.00

SE of Item Measure Mean = 0.10

GRADE 5 READING

Table 14–15. Grade 5 Reading—Summary of 9250 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	37.3	55.0	0.84	0.33
SD	13.1	0.0	1.22	0.08
Max.	60	55	5.66	1.83
Min.	0	55	-5.40	0.27
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.35	1.17	3.35	0.92
Model	0.34	1.17	3.46	0.92

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.99

Coefficient Alpha Student Raw Score Reliability = 0.94

Table 14–16. Grade 5 Reading—Summary of 55 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6276.7	9250.0	0.06	0.03
SD	1726.4	0.0	0.66	0.00
Max.	16813	9250	1.35	0.03
Min.	3631	9250	-1.57	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.66	25.54	1.00
Model	0.03	0.66	26.13	1.00

SE of Item Measure Mean = 0.09

GRADE 5 WRITING

Table 14–17. Grade 5 Writing—Summary of 9264 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	39.3	50.0	1.03	0.35
SD	11.3	0.0	1.18	0.09
Max.	60	50	6.46	1.86
Min.	0	50	-5.49	0.28
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.38	1.11	2.91	0.89
Model	0.36	1.12	3.14	0.91

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.98

Coefficient Alpha Student Raw Score Reliability = 0.91

Table 14–18. Grade 5 Writing—Summary of 50 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	7273.4	9264.0	0.05	0.03
SD	3877.9	0.0	0.62	0.00
Max.	28740	9264	1.18	0.03
Min.	4300	9264	-1.29	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.62	24.05	1.00
Model	0.03	0.62	24.64	1.00

SE of Item Measure Mean = 0.09

GRADE 6 MATHEMATICS

Table 14–19. Grade 6 Mathematics—Summary of 9216 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	40.8	59.0	0.96	0.33
SD	13.3	0.0	1.24	0.13
Max.	64	59	5.72	1.83
Min.	4	59	-2.80	0.27
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.36	1.18	3.25	0.91
Model	0.35	1.19	3.34	0.92

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.97

Coefficient Alpha Student Raw Score Reliability = 0.93

Table 14–20. Grade 6 Mathematics—Summary of 59 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6377.0	9216.0	0.06	0.03
SD	1613.4	0.0	0.71	0.00
Max.	14724	9216	1.48	0.04
Min.	4087	9216	-1.60	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.71	27.49	1.00
Model	0.03	0.71	28.00	1.00

SE of Item Measure Mean = 0.09

GRADE 6 READING

Table 14–21. Grade 6 Reading—Summary of 9230 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	38.7	55.0	0.98	0.34
SD	12.3	0.0	1.24	0.12
Max.	60	55	5.78	1.83
Min.	1	55	-4.29	0.28
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.38	1.18	3.14	0.91
Model	0.36	1.18	3.28	0.91

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.98

Coefficient Alpha Student Raw Score Reliability = 0.93

Table 14–22. Grade 6 Reading—Summary of 55 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6495.1	9230.0	0.04	0.03
SD	1842.0	0.0	0.82	0.00
Max.	13498	9230	1.87	0.04
Min.	3672	9230	-1.81	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.82	31.13	1.00
Model	0.03	0.82	31.67	1.00

SE of Item Measure Mean = 0.11

GRADE 6 WRITING

Table 14–23. Grade 6 Writing—Summary of 9228 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	38.9	50.0	0.96	0.33
SD	11.2	0.0	1.08	0.07
Max.	60	50	5.90	1.84
Min.	2	50	-3.48	0.28
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.35	1.02	2.90	0.89
Model	0.34	1.03	3.05	0.90

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.98

Coefficient Alpha Student Raw Score Reliability = 0.91

Table 14–24. Grade 6 Writing—Summary of 50 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	7177.8	9228.0	0.06	0.02
SD	4160.3	0.0	0.60	0.00
Max.	29058	9228	1.64	0.04
Min.	3336	9228	-1.55	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.60	23.62	1.00
Model	0.02	0.60	24.08	1.00

SE of Item Measure Mean = 0.09

GRADE 7 MATHEMATICS

Table 14–25. Grade 7 Mathematics—Summary of 9274 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	38.5	59.0	0.73	0.31
SD	13.1	0.0	1.16	0.08
Max.	64	59	5.78	1.80
Min.	2	59	-3.59	0.27
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.33	1.11	3.32	0.92
Model	0.32	1.11	3.45	0.92

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.98

Coefficient Alpha Student Raw Score Reliability = 0.93

Table 14–26. Grade 7 Mathematics—Summary of 59 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6049.6	9274.0	0.06	0.02
SD	1494.4	0.0	0.78	0.00
Max.	11988	9274	2.00	0.03
Min.	2334	9274	-1.75	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.78	30.58	1.00
Model	0.02	0.78	31.14	1.00

SE of Item Measure Mean = 0.10

GRADE 7 READING

Table 14–27. Grade 7 Reading—Summary of 9280 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	38.0	55.0	0.85	0.32
SD	12.0	0.0	1.09	0.07
Max.	60	55	5.60	1.83
Min.	2	55	-3.47	0.27
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.34	1.04	3.04	0.90
Model	0.33	1.04	3.15	0.91

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.99

Coefficient Alpha Student Raw Score Reliability = 0.92

Table 14–28. Grade 7 Reading—Summary of 55 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6406.5	9280.0	0.05	0.02
SD	2212.1	0.0	0.71	0.00
Max.	19032	9280	1.33	0.03
Min.	2946	9280	-1.22	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.71	27.77	1.00
Model	0.02	0.71	28.34	1.00

SE of Item Measure Mean = 0.10

GRADE 7 WRITING

Table 14–29. Grade 7 Writing—Summary of 9275 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	39.4	50.0	1.02	0.35
SD	10.9	0.0	1.16	0.09
Max.	60	50	6.56	1.88
Min.	4	50	-2.81	0.28
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.37	1.10	2.93	0.90
Model	0.36	1.10	3.09	0.91

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.98

Coefficient Alpha Student Raw Score Reliability = 0.91

Table 14–30. Grade 7 Writing—Summary of 50 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	7303.1	9275.0	0.04	0.03
SD	4241.9	0.0	0.78	0.00
Max.	29469	9275	1.45	0.04
Min.	3825	9275	-2.05	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.78	29.89	1.00
Model	0.03	0.78	30.39	1.00

SE of Item Measure Mean = 0.11

GRADE 8 MATHEMATICS

Table 14–31. Grade 8 Mathematics—Summary of 9333 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	39.3	59.0	0.88	0.32
SD	13.1	0.0	1.19	0.10
Max.	64	59	5.64	1.82
Min.	3	59	-3.15	0.27
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.34	1.14	3.29	0.92
Model	0.33	1.14	3.42	0.92

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.98

Coefficient Alpha Student Raw Score Reliability = 0.93

Table 14–32. Grade 8 Mathematics—Summary of 59 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6219.3	9333.0	0.07	0.03
SD	1413.4	0.0	0.82	0.00
Max.	10997	9333	2.09	0.04
Min.	3222	9333	-2.14	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.82	31.95	1.00
Model	0.03	0.82	32.47	1.00

SE of Item Measure Mean = 0.11

GRADE 8 READING

Table 14–33. Grade 8 Reading—Summary of 9336 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	38.3	55.0	0.92	0.33
SD	11.5	0.0	1.10	0.08
Max.	60	55	5.75	1.83
Min.	0	55	-5.50	0.28
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.35	1.05	3.04	0.90
Model	0.34	1.05	3.13	0.91

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.98

Coefficient Alpha Student Raw Score Reliability = 0.92

Table 14–34. Grade 8 Reading—Summary of 55 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6507.7	9336.0	0.06	0.03
SD	2289.6	0.0	0.83	0.00
Max.	19993	9336	1.66	0.04
Min.	3218	9336	-1.86	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.83	32.05	1.00
Model	0.03	0.83	32.45	1.00

SE of Item Measure Mean = 0.11

GRADE 8 WRITING

Table 14–35. Grade 8 Writing—Summary of 9316 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	38.7	50.0	1.00	0.34
SD	10.9	0.0	1.13	0.08
Max.	60	50	6.89	1.93
Min.	3	50	-3.08	0.28
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.37	1.07	2.93	0.90
Model	0.35	1.08	3.09	0.91

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.98

Coefficient Alpha Student Raw Score Reliability = 0.91

Table 14–36. Grade 8 Writing—Summary of 50 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	7203.2	9316.0	0.07	0.03
SD	4051.8	0.0	0.76	0.00
Max.	28618	9316	1.96	0.03
Min.	2866	9316	-1.51	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.76	29.63	1.00
Model	0.03	0.76	30.15	1.00

SE of Item Measure Mean = 0.11

GRADE 9 MATHEMATICS

Table 14–37. Grade 9 Mathematics—Summary of 9591 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	38.5	59.0	0.71	0.31
SD	13.2	0.0	1.17	0.11
Max.	64	59	6.56	1.95
Min.	4	59	-2.74	0.26
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.35	1.12	3.23	0.91
Model	0.33	1.12	3.36	0.92

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.97

Coefficient Alpha Student Raw Score Reliability = 0.93

Table 14–38. Grade 9 Mathematics—Summary of 59 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6255.7	9591.0	0.05	0.02
SD	1719.0	0.0	0.65	0.00
Max.	14196	9591	1.99	0.04
Min.	3937	9591	-2.03	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.02	0.65	26.80	1.00
Model	0.02	0.65	27.21	1.00

SE of Item Measure Mean = 0.09

GRADE 9 READING

Table 14–39. Grade 9 Reading—Summary of 9635 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	38.6	55.0	0.88	0.33
SD	12.1	0.0	1.12	0.09
Max.	60	55	5.61	1.83
Min.	1	55	-4.22	0.27
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.35	1.06	3.04	0.90
Model	0.34	1.07	3.15	0.91

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.98

Coefficient Alpha Student Raw Score Reliability = 0.92

Table 14–40. Grade 9 Reading—Summary of 55 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6766.0	9635.0	0.04	0.02
SD	2236.2	0.0	0.66	0.00
Max.	19952	9635	1.34	0.04
Min.	4172	9635	-1.77	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.02	0.66	26.27	1.00
Model	0.02	0.66	26.66	1.00

SE of Item Measure Mean = 0.09

GRADE 9 WRITING

Table 14–41. Grade 9 Writing—Summary of 9606 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	39.7	50.0	1.10	0.34
SD	10.5	0.0	1.09	0.08
Max.	60	50	6.76	1.90
Min.	1	50	-4.22	0.28
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.37	1.02	2.80	0.89
Model	0.35	1.03	2.94	0.90

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.98

Coefficient Alpha Student Raw Score Reliability = 0.91

Table 14–42. Grade 9 Writing—Summary of 50 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	7630.3	9606.0	0.08	0.03
SD	4212.2	0.0	0.75	0.00
Max.	31628	9606	1.90	0.04
Min.	3598	9606	-1.53	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.75	29.08	1.00
Model	0.03	0.75	29.41	1.00

SE of Item Measure Mean = 0.11

GRADE 10 MATHEMATICS

Table 14–43. Grade 10 Mathematics—Summary of 9042 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	24.8	36.0	0.97	0.42
SD	7.4	0.0	1.20	0.14
Max.	40	36	5.73	1.85
Min.	1	36	-3.97	0.36
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.46	1.11	2.41	0.85
Model	0.44	1.12	2.56	0.87

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.98

Coefficient Alpha Student Raw Score Reliability = 0.86

Table 14–44. Grade 10 Mathematics—Summary of 36 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6230.7	9042.0	0.10	0.03
SD	2252.7	0.0	1.15	0.00
Max.	13991	9042	2.88	0.04
Min.	1243	9042	-1.64	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.15	41.67	1.00
Model	0.03	0.15	42.33	1.00

SE of Item Measure Mean = 0.19

GRADE 10 READING

Table 14–45. Grade 10 Reading—Summary of 8994 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	46.7	65.0	1.66	0.30
SD	12.7	0.0	1.01	0.06
Max.	71	65	5.54	1.02
Min.	1	65	-3.79	0.26
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.31	0.96	3.05	0.90
Model	0.30	0.96	3.21	0.91

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.99

Coefficient Alpha Student Raw Score Reliability = 0.92

Table 14–46. Grade 10 Reading—Summary of 65 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	6459.7	8994.0	0.73	0.03
SD	2241.5	0.0	0.84	0.00
Max.	18580	8994	2.91	0.04
Min.	2875	8994	-1.21	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.84	31.42	1.00
Model	0.03	0.84	32.13	1.00

SE of Item Measure Mean = 0.11

GRADE 10 WRITING

Table 14–47. Grade 10 Writing—Summary of 9066 Measured Students

	Raw Score	Count	Measure	Model Error
Mean	32.6	34.0	1.44	0.38
SD	7.6	0.0	1.04	0.07
Max.	50	34	7.21	1.85
Min.	2	34	-2.77	0.31
	RSME	Adjusted SD	Person Separation	Person Separation Reliability
Real	0.41	0.95	2.31	0.84
Model	0.39	0.96	2.47	0.86

SE of Student Measure Mean = 0.01

Student Raw Score-to-Measure Correlation = 0.98

Coefficient Alpha Student Raw Score Reliability = 0.86

Table 14–48. Grade 10 Writing—Summary of 34 Measured Items

	Raw Score	Count	Measure	Model Error
Mean	8684.4	9066.0	0.51	0.02
SD	6025.8	0.0	0.59	0.00
Max.	30543	9066	1.54	0.03
Min.	4490	9066	-0.73	0.01
	RMSE	Adjusted SD	Item Separation	Item Separation Reliability
Real	0.03	0.59	23.36	1.00
Model	0.02	0.59	23.93	1.00

SE of Item Measure Mean = 0.10