

**Appendix B**  
**Rater Agreement**  
**and**  
**CR Item Distributions**

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Table B1  
Rater Agreement for Mathematics Grade 3

Form	Item	N	Mean of G1	Mean of G2	SD of G1	SD of G2	Percent of Perfect Agreement	Percent of Adjacent Agreement	Percent of Agreement	Correlation
1	31A	36268	0.66	0.66	0.47	0.47	96.1	3.9	100.0	0.91
1	31B	36268	1.22	1.23	0.82	0.81	78.1	19.9	97.9	0.79
1	38A	36268	0.78	0.78	0.41	0.42	98.7	1.3	100.0	0.96
1	38B	36268	0.75	0.76	0.57	0.57	82.4	17.5	99.9	0.72
1	45A	36268	0.40	0.40	0.49	0.49	99.0	1.0	100.0	0.98
1	45B	36268	0.56	0.56	0.60	0.60	82.0	18.0	100.0	0.75
1	58A	36268	0.92	0.92	0.27	0.28	98.5	1.5	100.0	0.90
1	58B	36268	0.76	0.76	0.63	0.63	83.4	16.4	99.8	0.78
1	66A	36268	0.86	0.86	0.35	0.35	99.4	0.6	100.0	0.98
1	66B	36268	1.02	1.02	0.62	0.62	86.1	13.8	99.9	0.81
1	72A	36268	0.83	0.83	0.37	0.37	99.5	0.5	100.0	0.98
1	72B	36268	1.33	1.33	0.72	0.71	77.4	21.9	99.3	0.76
1	77A	36268	0.86	0.86	0.34	0.34	99.8	0.2	100.0	0.99
1	77B	36268	1.10	1.10	0.73	0.73	80.7	19.1	99.8	0.81
2	31A	24120	0.81	0.81	0.39	0.39	99.3	0.7	100.0	0.98
2	31B	24120	0.90	0.90	0.65	0.64	84.1	15.7	99.8	0.80
2	38A	24120	0.70	0.70	0.46	0.46	98.9	1.1	100.0	0.97
2	38B	24120	0.66	0.66	0.51	0.51	85.2	14.8	100.0	0.72
2	45A	24120	0.60	0.60	0.49	0.49	96.2	3.8	100.0	0.92
2	45B	24120	1.18	1.18	0.83	0.83	77.6	20.6	98.2	0.79
2	58A	24120	0.98	0.98	0.14	0.14	99.2	0.9	100.0	0.78
2	58B	24120	0.76	0.75	0.62	0.62	87.3	12.7	100.0	0.84
2	66A	24120	0.70	0.70	0.46	0.46	98.9	1.1	100.0	0.97
2	66B	24120	1.27	1.28	0.72	0.72	81.5	17.9	99.4	0.80
2	72A	24120	0.75	0.75	0.43	0.43	97.8	2.2	100.0	0.94

Table B1 (cont.)  
 Rater Agreement for Mathematics Grade 3

Form	Item	N	Mean of G1	Mean of G2	SD of G1	SD of G2	Percent of Perfect Agreement	Percent of Adjacent Agreement	Percent of Agreement	Correlation
2	72B	24120	0.87	0.87	0.65	0.65	79.3	20.6	99.9	0.75
2	77A	24120	0.77	0.77	0.42	0.42	99.3	0.7	100.0	0.98
2	77B	24120	1.21	1.21	0.56	0.56	90.5	9.5	100.0	0.85

G1: Rater group 1      G2: Rater group 2

Table B2  
Rater Agreement for Mathematics Grade 4

Form	Item	N	Mean of G1	Mean of G2	SD of G1	SD of G2	Percent of Perfect Agreement	Percent of Adjacent Agreement	Percent of Agreement	Correlation
1	33A	37011	0.79	0.79	0.41	0.41	99.0	1.0	100.0	0.97
1	33B	37011	1.04	1.04	0.48	0.49	84.7	15.0	99.8	0.66
1	40A	37011	0.80	0.79	0.40	0.41	97.6	2.4	100.0	0.93
1	40B	37011	0.70	0.69	0.70	0.70	76.3	23.0	99.3	0.74
1	47A	37011	0.62	0.62	0.49	0.49	98.5	1.5	100.0	0.97
1	47B	37011	1.07	1.07	0.81	0.82	73.6	25.9	99.5	0.79
1	60A	37011	0.55	0.55	0.50	0.50	98.9	1.1	100.0	0.98
1	60B	37011	0.78	0.78	0.82	0.82	80.1	19.2	99.3	0.84
1	68A	37011	0.36	0.37	0.48	0.48	94.9	5.1	100.0	0.89
1	68B	37011	1.24	1.24	0.78	0.78	76.7	22.7	99.5	0.79
1	74A	37011	0.57	0.57	0.50	0.50	98.7	1.3	100.0	0.97
1	74B	37011	1.24	1.25	0.73	0.73	80.9	18.9	99.8	0.81
1	79A	37011	0.74	0.74	0.44	0.44	97.4	2.6	100.0	0.93
1	79B	37011	0.93	0.93	0.61	0.62	74.3	25.4	99.7	0.65
2	33A	24774	0.74	0.74	0.44	0.44	99.1	0.9	100.0	0.98
2	33B	24774	0.78	0.77	0.70	0.70	78.4	21.4	99.8	0.77
2	40A	24774	0.83	0.83	0.37	0.37	98.1	1.9	100.0	0.93
2	40B	24774	0.72	0.72	0.71	0.71	76.1	23.1	99.2	0.74
2	47A	24774	0.58	0.57	0.49	0.50	97.0	3.0	100.0	0.94
2	47B	24774	0.78	0.74	0.75	0.71	68.6	30.3	98.9	0.68
2	60A	24774	0.96	0.96	0.19	0.19	98.6	1.4	100.0	0.81
2	60B	24774	0.87	0.88	0.78	0.78	77.7	21.9	99.6	0.81
2	68A	24774	0.66	0.66	0.48	0.48	96.1	3.9	100.0	0.91
2	68B	24774	0.88	0.88	0.62	0.62	89.0	10.9	100.0	0.85

Table B2 (cont.)  
 Rater Agreement for Mathematics Grade 4

Form	Item	N	Mean of G1	Mean of G2	SD of G1	SD of G2	Percent of Perfect Agreement	Percent of Adjacent Agreement	Percent of Agreement	Correlation
2	74A	24774	0.26	0.26	0.44	0.44	99.0	1.0	100.0	0.97
2	74B	24774	0.78	0.77	0.72	0.72	78.7	20.9	99.6	0.79
2	79A	24774	0.53	0.53	0.50	0.50	98.7	1.3	100.0	0.97
2	79B	24774	1.00	1.02	0.89	0.89	84.8	14.5	99.4	0.89

G1: Rater group 1      G2: Rater group 2

Table B3  
Rater Agreement for Mathematics Grade 5

Form	Item	N	Mean of G1	Mean of G2	SD of G1	SD of G2	Percent of Perfect Agreement	Percent of Adjacent Agreement	Percent of Agreement	Correlation
1	33A	38101	0.57	0.57	0.49	0.49	99.2	0.8	100.0	0.98
1	33B	38101	0.69	0.69	0.55	0.55	84.0	15.9	99.9	0.73
1	40A	38101	0.81	0.81	0.39	0.39	98.5	1.5	100.0	0.95
1	40B	38101	1.26	1.20	0.58	0.56	77.4	21.3	98.8	0.60
1	47A	38101	0.36	0.36	0.48	0.48	93.9	6.1	100.0	0.87
1	47B	38101	0.68	0.68	0.74	0.74	87.4	12.4	99.8	0.88
1	57A	38101	0.41	0.41	0.49	0.49	99.3	0.7	100.0	0.99
1	57B	38101	0.95	0.97	0.69	0.69	79.7	20.2	99.9	0.78
1	63A	38101	0.78	0.78	0.41	0.41	97.7	2.3	100.0	0.93
1	63B	38101	1.29	1.28	0.82	0.82	89.4	10.1	99.5	0.91
1	64A	38101	0.97	0.97	0.18	0.18	99.6	0.4	100.0	0.93
1	64B	38101	1.08	1.07	0.67	0.67	82.0	17.7	99.7	0.78
1	70A	38101	0.35	0.35	0.48	0.48	99.3	0.7	100.0	0.99
1	70B	38101	0.59	0.58	0.64	0.64	75.5	24.4	99.9	0.70
1	76A	38101	0.46	0.46	0.50	0.50	99.2	0.8	100.0	0.98
1	76B	38101	0.95	0.95	0.91	0.91	86.3	13.4	99.6	0.91
2	33A	25372	0.72	0.72	0.45	0.45	96.3	3.7	100.0	0.91
2	33B	25372	1.06	1.06	0.43	0.43	92.8	7.2	100.0	0.80
2	40A	25372	0.65	0.64	0.48	0.48	95.7	4.3	100.0	0.91
2	40B	25372	1.43	1.42	0.91	0.91	88.7	11.0	99.7	0.93
2	47A	25372	0.39	0.39	0.49	0.49	98.4	1.6	100.0	0.97
2	47B	25372	1.11	1.10	0.76	0.77	82.6	16.8	99.4	0.83
2	57A	25372	0.30	0.30	0.46	0.46	99.0	1.0	100.0	0.98
2	57B	25372	0.98	0.98	0.75	0.74	90.0	9.9	99.9	0.91

Table B3 (cont.)  
Rater Agreement for Mathematics Grade 5

Form	Item	N	Mean of G1	Mean of G2	SD of G1	SD of G2	Percent of Perfect Agreement	Percent of Adjacent Agreement	Percent of Agreement	Correlation
2	63A	25372	0.85	0.85	0.35	0.35	99.2	0.8	100.0	0.97
2	63B	25372	1.12	1.12	0.43	0.43	90.0	10.0	100.0	0.72
2	64A	25372	0.33	0.33	0.47	0.47	95.4	4.6	100.0	0.90
2	64B	25372	0.48	0.47	0.55	0.54	87.1	12.8	99.9	0.78
2	70A	25372	0.35	0.35	0.48	0.48	99.2	0.8	100.0	0.98
2	70B	25372	0.57	0.57	0.61	0.62	75.5	24.5	99.9	0.67
2	76A	25372	0.45	0.45	0.50	0.50	99.4	0.6	100.0	0.99
2	76B	25372	0.90	0.90	0.90	0.90	86.4	13.2	99.6	0.91

G1: Rater group 1

G2: Rater group 2



Table B4  
Rater Agreement for Mathematics Grade 6

Form	Item	N	Mean of G1	Mean of G2	SD of G1	SD of G2	Percent of Perfect Agreement	Percent of Adjacent Agreement	Percent of Agreement	Correlation
1	40A	38922	0.59	0.59	0.49	0.49	98.9	1.1	100.0	0.98
1	40B	38922	1.04	1.03	0.81	0.82	88.2	11.6	99.9	0.91
1	49A	38922	0.54	0.54	0.50	0.50	99.4	0.6	100.0	0.99
1	49B	38922	0.83	0.83	0.78	0.78	89.4	10.5	99.9	0.91
1	63A	38922	0.40	0.40	0.49	0.49	99.5	0.5	100.0	0.99
1	63B	38922	0.62	0.62	0.71	0.71	87.4	12.5	99.9	0.87
1	68A	38922	0.77	0.77	0.42	0.42	98.5	1.5	100.0	0.96
1	68B	38922	1.18	1.18	0.62	0.62	93.5	6.0	99.5	0.90
1	69A	38922	0.44	0.44	0.50	0.50	97.1	2.9	100.0	0.94
1	69B	38922	1.17	1.17	0.76	0.76	86.9	12.4	99.3	0.87
1	75A	38922	0.56	0.56	0.50	0.50	98.8	1.2	100.0	0.98
1	75B	38922	0.96	0.96	0.78	0.78	85.8	13.9	99.7	0.88
1	81A	38922	0.56	0.56	0.50	0.50	98.3	1.7	100.0	0.97
1	81B	38922	0.95	0.94	0.63	0.63	83.2	16.6	99.8	0.78
2	40A	25828	0.68	0.68	0.47	0.47	97.0	3.0	100.0	0.93
2	40B	25828	1.38	1.38	0.90	0.91	73.7	25.3	99.0	0.82
2	49A	25828	0.65	0.65	0.48	0.48	99.5	0.5	100.0	0.99
2	49B	25828	1.09	1.08	0.80	0.80	92.7	7.2	99.9	0.94
2	63A	25828	0.47	0.48	0.50	0.50	96.2	3.8	100.0	0.92
2	63B	25828	0.87	0.86	0.52	0.52	87.8	12.1	99.9	0.77
2	68A	25828	0.43	0.43	0.49	0.49	98.3	1.7	100.0	0.97
2	68B	25828	1.00	1.00	0.62	0.62	91.6	7.5	99.1	0.86
2	69A	25828	0.42	0.42	0.49	0.49	97.4	2.6	100.0	0.95
2	69B	25828	1.18	1.18	0.75	0.75	87.3	11.9	99.3	0.87

Table B4 (cont.)  
 Rater Agreement for Mathematics Grade 6

Form	Item	N	Mean of G1	Mean of G2	SD of G1	SD of G2	Percent of Perfect Agreement	Percent of Adjacent Agreement	Percent of Agreement	Correlation
2	75A	25828	0.39	0.39	0.49	0.49	98.1	1.9	100.0	0.96
2	75B	25828	0.91	0.90	0.85	0.86	88.2	11.4	99.6	0.91
2	81A	25828	0.60	0.60	0.49	0.49	98.6	1.4	100.0	0.97
2	81B	25828	0.83	0.83	0.62	0.62	87.1	12.7	99.8	0.82

G1: Rater group 1      G2: Rater group 2

Table B5  
 Rater Agreement for Mathematics Grade 7

Form	Item	N	Mean of G1	Mean of G2	SD of G1	SD of G2	Percent of Perfect Agreement	Percent of Adjacent Agreement	Percent of Agreement	Correlation
1	33A	39533	0.34	0.34	0.47	0.47	99.4	0.6	100.0	0.99
1	33B	39533	0.98	0.97	0.65	0.66	86.2	13.7	99.9	0.84
1	43A	39533	0.72	0.72	0.45	0.45	98.7	1.3	100.0	0.97
1	43B	39533	1.40	1.40	0.75	0.75	85.1	14.5	99.6	0.86
1	53A	39533	0.33	0.33	0.47	0.47	97.7	2.3	100.0	0.95
1	53B	39533	0.42	0.47	0.66	0.68	77.8	21.3	99.1	0.73
1	63A	39533	0.77	0.77	0.42	0.42	98.2	1.8	100.0	0.95
1	63B	39533	1.86	1.86	0.65	0.64	91.4	8.2	99.6	0.88
1	68A	39533	0.52	0.52	0.50	0.50	99.1	0.9	100.0	0.98
1	68B	39533	1.46	1.44	0.66	0.68	84.6	15.3	99.8	0.82
1	76A	39533	0.27	0.27	0.44	0.44	99.5	0.5	100.0	0.99
1	76B	39533	0.74	0.74	0.83	0.83	90.8	8.9	99.7	0.93
1	81A	39533	0.53	0.53	0.50	0.50	94.3	5.7	100.0	0.89
1	81B	39533	1.78	1.78	1.06	1.06	80.6	18.4	99.0	0.90
2	33A	26296	0.46	0.46	0.50	0.50	98.4	1.6	100.0	0.97
2	33B	26296	0.44	0.44	0.57	0.57	84.4	15.5	99.9	0.76
2	43A	26296	0.56	0.56	0.50	0.50	99.3	0.7	100.0	0.99
2	43B	26296	1.27	1.26	0.81	0.81	86.7	13.1	99.8	0.89
2	53A	26296	0.73	0.73	0.45	0.45	96.6	3.4	100.0	0.92
2	53B	26296	1.29	1.29	0.86	0.85	77.1	22.2	99.3	0.83
2	63A	26296	0.65	0.65	0.48	0.48	98.8	1.2	100.0	0.97
2	63B	26296	1.81	1.81	0.92	0.93	82.4	16.4	98.8	0.87
2	68A	26296	0.47	0.47	0.50	0.50	99.1	0.9	100.0	0.98
2	68B	26296	0.49	0.49	0.70	0.70	87.1	12.6	99.7	0.86

Table B5 (cont.)  
 Rater Agreement for Mathematics Grade 7

Form	Item	N	Mean of G1	Mean of G2	SD of G1	SD of G2	Percent of Perfect Agreement	Percent of Adjacent Agreement	Percent of Agreement	Correlation
2	76A	26296	0.27	0.27	0.44	0.44	99.7	0.3	100.0	0.99
2	76B	26296	0.77	0.76	0.81	0.82	89.7	10.1	99.8	0.92
2	81A	26296	0.52	0.52	0.50	0.50	94.5	5.5	100.0	0.89
2	81B	26296	1.78	1.77	1.06	1.06	80.6	18.6	99.1	0.90

G1: Rater group 1      G2: Rater group 2

Table B6  
Rater Agreement for Mathematics Grade 8

Form	Item	N	Mean of G1	Mean of G2	SD of G1	SD of G2	Percent of Perfect Agreement	Percent of Adjacent Agreement	Percent of Agreement	Correlation
1	32A	40707	0.45	0.45	0.50	0.50	99.0	1.0	100.0	0.98
1	32B	40707	1.22	1.22	0.77	0.77	83.7	15.7	99.5	0.85
1	40A	40707	0.36	0.36	0.48	0.48	97.8	2.2	100.0	0.95
1	40B	40707	1.11	1.11	1.12	1.12	70.5	27.1	97.6	0.85
1	47A	40707	0.38	0.38	0.48	0.48	98.8	1.2	100.0	0.97
1	47B	40707	1.47	1.49	1.09	1.08	85.2	14.1	99.3	0.93
1	57A	40707	0.23	0.23	0.42	0.42	99.0	1.0	100.0	0.97
1	57B	40707	0.80	0.79	0.97	0.97	72.9	25.3	98.2	0.83
1	62A	40707	0.66	0.66	0.47	0.47	99.0	1.0	100.0	0.98
1	62B	40707	1.44	1.45	0.76	0.76	89.4	10.3	99.7	0.90
1	70A	40707	0.14	0.14	0.34	0.34	95.3	4.7	100.0	0.80
1	70B	40707	0.42	0.41	0.51	0.51	88.3	11.7	100.0	0.78
1	75A	40707	0.76	0.76	0.43	0.43	98.0	2.0	100.0	0.95
1	75B	40707	1.45	1.48	0.67	0.65	79.7	19.7	99.4	0.74
1	76A	40707	0.32	0.32	0.47	0.47	98.4	1.6	100.0	0.96
1	76B	40707	0.75	0.75	0.77	0.77	82.4	17.2	99.7	0.84
2	32A	27033	0.39	0.39	0.49	0.49	99.4	0.6	100.0	0.99
2	32B	27033	0.55	0.55	0.75	0.75	82.6	16.8	99.4	0.83
2	40A	27033	0.37	0.38	0.48	0.48	97.5	2.5	100.0	0.95
2	40B	27033	1.16	1.16	1.11	1.12	69.8	28.0	97.8	0.85
2	47A	27033	0.28	0.28	0.45	0.45	99.0	1.0	100.0	0.97
2	47B	27033	0.96	0.98	1.10	1.10	78.4	20.1	98.5	0.89
2	57A	27033	0.55	0.55	0.50	0.50	94.8	5.2	100.0	0.89
2	57B	27033	1.19	1.19	0.80	0.81	77.5	21.8	99.2	0.81

Table B6 (cont.)  
Rater Agreement for Mathematics Grade 8

Form	Item	N	Mean of G1	Mean of G2	SD of G1	SD of G2	Percent of Perfect Agreement	Percent of Adjacent Agreement	Percent of Agreement	Correlation
2	62A	27033	0.38	0.37	0.48	0.48	98.6	1.4	100.0	0.97
2	62B	27033	1.07	1.08	0.86	0.86	84.1	15.1	99.2	0.87
2	70A	27033	0.25	0.24	0.43	0.43	94.8	5.2	100.0	0.86
2	70B	27033	0.81	0.80	0.47	0.47	81.3	18.6	100.0	0.57
2	75A	27033	0.32	0.32	0.47	0.47	98.6	1.4	100.0	0.97
2	75B	27033	0.96	1.00	0.77	0.75	73.0	26.6	99.6	0.75
2	76A	27033	0.30	0.30	0.46	0.46	98.3	1.7	100.0	0.96
2	76B	27033	0.74	0.75	0.75	0.75	82.2	17.5	99.7	0.83

G1: Rater group 1

G2: Rater group 2

Table B7  
The CR Item Distribution for Mathematics Grade 3

FORM	ITEMNO	N	OMIT	Code B	0	1	2	% OMIT
1	31A	36268	546	205	12004	23513	.	1.51
	31B	36268	438	261	8861	10029	16679	1.21
	38A	36268	546	85	7865	27772	.	1.51
	38B	36268	552	247	11202	21926	2341	1.52
	45A	36268	750	76	21193	14249	.	2.07
	45B	36268	1083	285	17198	15723	1979	2.99
	58A	36268	195	41	2946	33086	.	0.54
	58B	36268	308	77	12377	19656	3850	0.85
	66A	36268	917	22	5107	30222	.	2.53
	66B	36268	617	240	6394	21846	7171	1.70
	72A	36268	367	80	6040	29781	.	1.01
	72B	36268	447	183	5188	13530	16920	1.23
	77A	36268	367	17	4904	30980	.	1.01
	77B	36268	558	157	7844	16153	11556	1.54
2	31A	24120	169	32	4556	19363	.	0.70
	31B	24120	294	118	6254	13467	3987	1.22
	38A	24120	675	15	6979	16451	.	2.80
	38B	24120	438	139	8415	14645	483	1.82
	45A	24120	652	62	9425	13981	.	2.70
	45B	24120	617	140	6305	6657	10401	2.56
	58A	24120	110	14	472	23524	.	0.46
	58B	24120	208	46	8238	13200	2428	0.86
	66A	24120	311	57	7136	16616	.	1.29
	66B	24120	406	146	3727	9645	10196	1.68
	72A	24120	284	5	5941	17890	.	1.18
	72B	24120	339	88	6824	13221	3648	1.41
	77A	24120	1202	17	5345	17556	.	4.98
	77B	24120	248	54	1794	15233	6791	1.03

Table B8  
The CR Item Distribution for Mathematics Grade 4

FORM	ITEMNO	N	OMIT	Code B	0	1	2	% OMIT
1	33A	37011	217	79	7877	28838	.	0.59
	33B	37011	249	134	3603	28000	5025	0.67
	40A	37011	793	349	7348	28521	.	2.14
	40B	37011	923	465	15714	14861	5048	2.49
	47A	37011	1357	304	13460	21890	.	3.67
	47B	37011	1377	419	10585	11693	12937	3.72
	60A	37011	713	163	16155	19980	.	1.93
	60B	37011	795	317	17105	9700	9094	2.15
	68A	37011	1106	205	22727	12973	.	2.99
	68B	37011	1121	261	7594	12030	16005	3.03
	74A	37011	427	94	15789	20701	.	1.15
	74B	37011	433	149	6409	14786	15234	1.17
	79A	37011	2354	81	9118	25458	.	6.36
	79B	37011	1632	520	7914	21553	5392	4.41
2	33A	24774	432	91	6228	18023	.	1.74
	33B	24774	497	175	9163	11052	3887	2.01
	40A	24774	569	221	4032	19952	.	2.30
	40B	24774	612	307	10255	9965	3635	2.47
	47A	24774	1030	436	9888	13420	.	4.16
	47B	24774	1047	766	9467	9082	4412	4.23
	60A	24774	217	49	962	23546	.	0.88
	60B	24774	286	154	9142	9120	6072	1.15
	68A	24774	789	18	8260	15707	.	3.18
	68B	24774	827	134	6179	14324	3310	3.34
	74A	24774	455	39	17930	6350	.	1.84
	74B	24774	558	174	9610	10231	4201	2.25
79A	24774	842	103	11237	12592	.	3.40	
79B	24774	854	168	9365	4905	9482	3.45	



Table B9  
The CR Item Distribution for Mathematics Grade 5

FORM	ITEMNO	N	OMIT	Code B	0	1	2	3	% OMIT
1	33A	38101	772	64	15915	21350	.	.	2.03
	33B	38101	800	209	13202	22354	1536	.	2.10
	40A	38101	1118	83	6884	30016	.	.	2.93
	40B	38101	458	179	1234	26790	7982	1458	1.20
	47A	38101	3187	452	21996	12466	.	.	8.36
	47B	38101	3362	599	16754	11714	5672	.	8.82
	57A	38101	791	92	22061	15157	.	.	2.08
	57B	38101	928	194	9714	19281	7984	.	2.44
	63A	38101	1369	162	8036	28534	.	.	3.59
	63B	38101	1453	237	8594	8810	19007	.	3.81
	64A	38101	1423	10	1252	35416	.	.	3.73
	64B	38101	1533	155	6720	20064	9629	.	4.02
	70A	38101	619	119	24212	13151	.	.	1.62
	70B	38101	709	224	18542	15398	3228	.	1.86
	76A	38101	1634	175	19506	16786	.	.	4.29
	76B	38101	1933	359	15613	6320	13876	.	5.07
2	33A	25372	1244	8	6707	17413	.	.	4.90
	33B	25372	228	76	1585	20449	3034	.	0.90
	40A	25372	1295	24	8488	15565	.	.	5.10
	40B	25372	521	89	3441	11001	6599	3721	2.05
	47A	25372	1005	60	14762	9545	.	.	3.96
	47B	25372	1105	126	5744	10039	8358	.	4.36
	57A	25372	462	28	17322	7560	.	.	1.82
	57B	25372	491	78	7175	10988	6640	.	1.94
	63A	25372	586	50	3631	21105	.	.	2.31
	63B	25372	444	88	922	19984	3934	.	1.75
	64A	25372	1419	30	16048	7875	.	.	5.59
	64B	25372	1568	170	12965	10076	593	.	6.18
	70A	25372	339	56	16150	8827	.	.	1.34
	70B	25372	408	125	12210	11025	1604	.	1.61
	76A	25372	938	88	13459	10887	.	.	3.7
	76B	25372	1108	224	11053	4367	8620	.	4.37

Table B10  
The CR Item Distribution for Mathematics Grade 6

FORM	ITEMNO	N	OMIT	Code B	0	1	2	3	% OMIT
1	40A	38922	2041	19	15241	21621	.	.	5.24
	40B	38922	1468	317	11080	13971	11652	434	3.77
	49A	38922	4845	434	15451	18192	.	.	12.45
	49B	38922	5088	795	13258	12011	7770	.	13.07
	63A	38922	1746	156	22181	14839	.	.	4.49
	63B	38922	1909	294	18983	12748	4988	.	4.90
	68A	38922	1620	120	8496	28686	.	.	4.16
	68B	38922	1787	202	4435	21457	11041	.	4.59
	69A	38922	2877	182	20072	15791	.	.	7.39
	69B	38922	3171	475	7767	13641	13868	.	8.15
	75A	38922	958	101	16660	21203	.	.	2.46
	75B	38922	1301	348	11984	14618	10671	.	3.34
	81A	38922	2286	165	16049	20422	.	.	5.87
	81B	38922	2472	414	8252	21501	6283	.	6.35
2	40A	25828	1249	47	7925	16607	.	.	4.84
	40B	25828	1078	193	4254	9620	7783	2900	4.17
	49A	25828	1416	106	8571	15735	.	.	5.48
	49B	25828	1536	196	6710	8620	8766	.	5.95
	63A	25828	1092	72	12985	11679	.	.	4.23
	63B	25828	1150	138	5222	17368	1950	.	4.45
	68A	25828	2390	157	13332	9949	.	.	9.25
	68B	25828	2523	235	4498	14159	4413	.	9.77
	69A	25828	2817	83	13395	9533	.	.	10.91
	69B	25828	3045	287	4658	9207	8631	.	11.79
	75A	25828	849	131	15050	9798	.	.	3.29
	75B	25828	1073	214	10214	6417	7910	.	4.15
	81A	25828	1709	174	9610	14335	.	.	6.62
81B	25828	1753	274	6857	14045	2899	.	6.79	

Table B11  
The CR Item Distribution for Mathematics Grade 7

FORM	ITEMNO	N	OMIT	Code B	0	1	2	3	% OMIT
1	33A	39533	2523	232	24253	12525	.	.	6.38
	33B	39533	2806	339	8163	20803	7422	.	7.10
	43A	39533	1559	152	10425	27397	.	.	3.94
	43B	39533	1711	214	6195	10092	21321	.	4.33
	53A	39533	6809	253	21729	10742	.	.	17.22
	53B	39533	6259	820	21643	8209	2351	251	15.83
	63A	39533	1333	33	8658	29509	.	.	3.37
	63B	39533	1216	173	2421	3847	28661	3215	3.08
	68A	39533	4076	656	16617	18184	.	.	10.31
	68B	39533	4122	711	3345	12053	19302	.	10.43
	76A	39533	1885	122	27515	10011	.	.	4.77
	76B	39533	2169	256	18737	9222	9149	.	5.49
	81A	39533	2717	180	17160	19476	.	.	6.87
	81B	39533	2716	534	5484	9064	9794	11941	6.87
2	33A	26296	2815	242	12533	10706	.	.	10.71
	33B	26296	2967	319	13723	8355	932	.	11.28
	43A	26296	1443	181	10842	13830	.	.	5.49
	43B	26296	1540	225	5579	6767	12185	.	5.86
	53A	26296	2171	154	6591	17380	.	.	8.26
	53B	26296	2355	270	4998	7985	9470	1218	8.96
	63A	26296	1007	90	8811	16388	.	.	3.83
	63B	26296	1075	153	3765	2233	14138	4932	4.09
	68A	26296	1893	74	12820	11509	.	.	7.20
	68B	26296	2362	229	14979	5938	2788	.	8.98
	76A	26296	1195	87	18350	6664	.	.	4.54
	76B	26296	1411	193	11751	6980	5961	.	5.37
	81A	26296	1957	130	11575	12634	.	.	7.44
	81B	26296	2039	345	3580	5861	6655	7816	7.75

Table B12  
The CR Item Distribution for Mathematics Grade 8

FORM	ITEMNO	N	OMIT	Code B	0	1	2	3	% OMIT
1	32A	40707	1643	119	21418	17527	.	.	4.04
	32B	40707	1951	218	8033	14013	16492	.	4.79
	40A	40707	4696	264	22767	12980	.	.	11.54
	40B	40707	5731	875	13719	8650	5864	5868	14.08
	47A	40707	3502	222	23065	13918	.	.	8.60
	47B	40707	3737	475	8018	12543	6755	9179	9.18
	57A	40707	3163	246	28767	8531	.	.	7.77
	57B	40707	3595	378	18559	9909	5193	3073	8.83
	62A	40707	4554	237	12304	23612	.	.	11.19
	62B	40707	4635	485	5918	7941	21728	.	11.39
	70A	40707	4578	81	31136	4912	.	.	11.25
	70B	40707	3515	366	21642	14847	337	.	8.63
	75A	40707	1781	123	9410	29393	.	.	4.38
	75B	40707	2044	273	3845	13444	21101	.	5.02
	76A	40707	3926	502	24720	11559	.	.	9.64
76B	40707	4662	829	15942	12237	7037	.	11.45	
2	32A	27033	1841	135	15305	9752	.	.	6.81
	32B	27033	2282	381	14972	5499	3899	.	8.44
	40A	27033	3134	193	14825	8881	.	.	11.59
	40B	27033	3799	574	8535	6092	3984	4049	14.05
	47A	27033	3193	315	16934	6591	.	.	11.81
	47B	27033	3390	546	11219	4713	3955	3210	12.54
	57A	27033	1696	54	11320	13963	.	.	6.27
	57B	27033	1725	231	4454	13166	5722	1735	6.38
	62A	27033	3547	326	14475	8685	.	.	13.12
	62B	27033	3787	445	7641	5906	9254	.	14.01
	70A	27033	2199	57	18670	6107	.	.	8.13
	70B	27033	1385	173	5627	19043	805	.	5.12
	75A	27033	1860	189	17029	7955	.	.	6.88
	75B	27033	2154	316	7761	10135	6667	.	7.97
	76A	27033	2672	323	16769	7269	.	.	9.88
76B	27033	3173	491	10297	8777	4295	.	11.74	