

Appendix A
Summary Item Statistics

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Table A1
Summary Item Statistics - Mathematics Grade 3, Form 1 (Form A, C, E Operational Items)
N=36,268

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------|-------|--------|--------|--------|--------|--------|
| 1 | C | MC | 0.87 | 0.29 | 0.29 | -0.19 | -0.12 | -0.08 | -0.11 |
| 2 | C | MC | 0.93 | 0.26 | -0.12 | 0.26 | -0.13 | -0.10 | -0.10 |
| 4 | C | MC | 0.90 | 0.33 | -0.14 | -0.22 | 0.33 | -0.16 | -0.09 |
| 10 | C | MC | 0.90 | 0.39 | -0.14 | -0.25 | 0.39 | -0.20 | |
| 12 | C | MC | 0.90 | 0.37 | 0.37 | -0.19 | -0.16 | -0.22 | |
| 13 | C | MC | 0.88 | 0.45 | -0.22 | -0.28 | -0.21 | 0.45 | |
| 14 | C | MC | 0.90 | 0.32 | -0.14 | -0.14 | 0.32 | -0.21 | |
| 16 | C | MC | 0.97 | 0.29 | 0.29 | -0.18 | -0.14 | -0.10 | |
| 17 | C | MC | 0.92 | 0.31 | -0.10 | -0.06 | -0.25 | 0.31 | |
| 18 | C | MC | 0.97 | 0.19 | -0.10 | -0.08 | -0.08 | 0.19 | |
| 24 | C | MC | 0.98 | 0.29 | -0.17 | -0.12 | 0.29 | -0.11 | |
| 31A | U | CR | 0.65 | 0.47 | | | | | |
| 31B | U | CR | 0.60 | 0.48 | | | | | |
| 32 | C | MC | 0.66 | 0.37 | -0.25 | -0.18 | 0.37 | -0.15 | |
| 34 | C | MC | 0.70 | 0.44 | 0.44 | -0.20 | -0.21 | -0.23 | |
| 35 | U | MC | 0.94 | 0.39 | 0.39 | -0.17 | -0.24 | -0.20 | |
| 36 | C | MC | 0.92 | 0.39 | -0.22 | 0.39 | -0.21 | -0.17 | |
| 37 | C | MC | 0.49 | 0.24 | -0.04 | -0.20 | -0.08 | 0.24 | |
| 38A | U | CR | 0.77 | 0.34 | | | | | |
| 38B | U | CR | 0.37 | 0.40 | | | | | |
| 39 | C | MC | 0.84 | 0.57 | -0.15 | -0.45 | 0.57 | -0.23 | |
| 40 | C | MC | 0.92 | 0.36 | -0.24 | -0.14 | 0.36 | -0.20 | |
| 41 | C | MC | 0.80 | 0.50 | -0.39 | 0.50 | -0.19 | -0.14 | |
| 42 | C | MC | 0.88 | 0.24 | -0.12 | -0.09 | -0.15 | 0.24 | |
| 43 | U | MC | 0.64 | 0.28 | -0.15 | -0.18 | 0.28 | -0.13 | |
| 44 | U | MC | 0.81 | 0.44 | -0.24 | 0.44 | -0.18 | -0.24 | |
| 45A | U | CR | 0.39 | 0.45 | | | | | |
| 45B | U | CR | 0.27 | 0.48 | | | | | |
| 46 | U | MC | 0.65 | 0.49 | -0.32 | -0.19 | 0.49 | -0.17 | |
| 47 | U | MC | 0.84 | 0.40 | -0.33 | 0.40 | -0.09 | -0.14 | |
| 48 | C | MC | 0.60 | 0.52 | 0.52 | -0.22 | -0.26 | -0.30 | |
| 49 | C | MC | 0.79 | 0.42 | -0.23 | 0.42 | -0.23 | -0.19 | |
| 50 | U | MC | 0.65 | 0.45 | -0.17 | -0.28 | 0.45 | -0.16 | |
| 51 | C | MC | 0.76 | 0.50 | -0.29 | -0.26 | 0.50 | -0.19 | |
| 52 | C | MC | 0.82 | 0.49 | -0.28 | -0.27 | -0.21 | 0.49 | |
| 53 | U | MC | 0.50 | 0.41 | -0.08 | -0.07 | 0.41 | -0.35 | |
| 54 | C | MC | 0.87 | 0.43 | 0.43 | -0.22 | -0.25 | -0.22 | |

Table A1 (Cont.)
Summary Item Statistics - Mathematics Grade 3, Form 1 (Form A, C, E Operational Items)
N=36,268

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------|-------|--------|--------|--------|-------------|--------|
| 55 | C | MC | 0.92 | 0.45 | 0.45 | -0.21 | -0.26 | -0.20 | |
| 56 | U | MC | 0.91 | 0.28 | -0.17 | 0.28 | -0.10 | -0.13 | |
| 57 | C | MC | 0.87 | 0.39 | -0.24 | 0.39 | -0.25 | -0.14 | |
| 58A | U | CR | 0.91 | 0.37 | | | | | |
| 58B | U | CR | 0.38 | 0.38 | | | | | |
| 59 | C | MC | 0.95 | 0.34 | -0.12 | 0.34 | -0.19 | -0.20 | |
| 60 | C | MC | 0.80 | 0.42 | 0.42 | -0.20 | -0.24 | -0.20 | |
| 61 | C | MC | 0.85 | 0.37 | -0.26 | -0.13 | -0.16 | 0.37 | |
| 62 | C | MC | 0.56 | 0.47 | -0.33 | -0.13 | -0.14 | 0.47 | |
| 63 | C | MC | 0.83 | 0.39 | -0.18 | 0.39 | -0.23 | -0.21 | |
| 64 | U | MC | 0.59 | 0.49 | -0.29 | 0.49 | -0.19 | -0.20 | |
| 65 | U | MC | 0.87 | 0.47 | -0.22 | 0.47 | -0.22 | -0.27 | |
| 66A | U | CR | 0.83 | 0.35 | | | | | |
| 66B | U | CR | 0.50 | 0.51 | | | | | |
| 67 | C | MC | 0.84 | 0.23 | 0.23 | -0.11 | -0.13 | -0.12 | |
| 68 | C | MC | 0.73 | 0.46 | -0.23 | 0.46 | -0.19 | -0.27 | |
| 69 | C | MC | 0.59 | 0.48 | -0.28 | -0.21 | -0.15 | 0.48 | |
| 70 | U | MC | 0.96 | 0.29 | -0.10 | 0.29 | -0.13 | -0.18 | |
| 71 | C | MC | 0.80 | 0.52 | -0.22 | -0.17 | -0.37 | 0.52 | |
| 72A | U | CR | 0.82 | 0.39 | | | | | |
| 72B | U | CR | 0.65 | 0.36 | | | | | |
| 73 | U | MC | 0.84 | 0.47 | -0.27 | -0.20 | -0.24 | 0.47 | |
| 74 | C | MC | 0.32 | 0.22 | -0.24 | -0.08 | 0.22 | 0.16 | |
| 75 | C | MC | 0.97 | 0.28 | -0.13 | -0.13 | 0.28 | -0.14 | |
| 76 | C | MC | 0.66 | 0.54 | -0.39 | 0.54 | -0.22 | -0.14 | |
| 77A | U | CR | 0.85 | 0.47 | | | | | |
| 77B | U | CR | 0.54 | 0.50 | | | | | |

Table A2
Summary Item Statistics - Mathematics Grade 3, Form 2 (Form B, D Operational Items)
N=24,120

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------|-------|--------|--------|--------|-------------|--------|
| 1 | C | MC | 0.87 | 0.28 | 0.28 | -0.21 | -0.11 | -0.07 | -0.10 |
| 2 | C | MC | 0.93 | 0.25 | -0.12 | 0.25 | -0.12 | -0.11 | -0.10 |
| 4 | C | MC | 0.90 | 0.33 | -0.13 | -0.22 | 0.33 | -0.17 | -0.10 |
| 10 | C | MC | 0.91 | 0.39 | -0.18 | -0.24 | 0.39 | -0.19 | |
| 12 | C | MC | 0.91 | 0.37 | 0.37 | -0.18 | -0.16 | -0.23 | |
| 13 | C | MC | 0.88 | 0.43 | -0.21 | -0.27 | -0.22 | 0.43 | |
| 14 | C | MC | 0.91 | 0.30 | -0.15 | -0.14 | 0.30 | -0.20 | |
| 16 | C | MC | 0.97 | 0.27 | 0.27 | -0.16 | -0.14 | -0.11 | |
| 17 | C | MC | 0.92 | 0.29 | -0.09 | -0.08 | -0.24 | 0.29 | |
| 18 | C | MC | 0.98 | 0.20 | -0.12 | -0.08 | -0.09 | 0.20 | |
| 24 | C | MC | 0.98 | 0.27 | -0.17 | -0.11 | 0.27 | -0.11 | |
| 31A | U | CR | 0.80 | 0.46 | | | | | |
| 31B | U | CR | 0.44 | 0.50 | | | | | |
| 32 | C | MC | 0.66 | 0.37 | -0.23 | -0.20 | 0.37 | -0.16 | |
| 34 | C | MC | 0.70 | 0.45 | 0.45 | -0.19 | -0.22 | -0.24 | |
| 35 | C | MC | 0.67 | 0.55 | -0.42 | 0.55 | -0.23 | -0.12 | |
| 36 | C | MC | 0.93 | 0.37 | -0.20 | 0.37 | -0.19 | -0.18 | |
| 37 | C | MC | 0.49 | 0.23 | -0.04 | -0.21 | -0.07 | 0.23 | |
| 38A | U | CR | 0.68 | 0.45 | | | | | |
| 38B | U | CR | 0.32 | 0.48 | | | | | |
| 39 | C | MC | 0.85 | 0.57 | -0.15 | -0.47 | 0.57 | -0.21 | |
| 40 | C | MC | 0.93 | 0.34 | -0.23 | -0.15 | 0.34 | -0.20 | |
| 41 | C | MC | 0.80 | 0.51 | -0.41 | 0.51 | -0.21 | -0.13 | |
| 42 | C | MC | 0.88 | 0.25 | -0.14 | -0.08 | -0.15 | 0.25 | |
| 43 | U | MC | 0.80 | 0.59 | -0.23 | -0.45 | 0.59 | -0.25 | |
| 44 | U | MC | 0.68 | 0.46 | -0.34 | -0.22 | -0.07 | 0.46 | |
| 45A | U | CR | 0.58 | 0.31 | | | | | |
| 45B | U | CR | 0.57 | 0.51 | | | | | |
| 46 | U | MC | 0.40 | 0.44 | -0.24 | -0.25 | -0.08 | 0.44 | |
| 47 | U | MC | 0.75 | 0.37 | -0.26 | 0.37 | -0.18 | -0.14 | |
| 48 | U | MC | 0.86 | 0.50 | -0.26 | 0.50 | -0.32 | -0.19 | |
| 49 | C | MC | 0.78 | 0.40 | -0.23 | 0.40 | -0.22 | -0.19 | |
| 50 | C | MC | 0.32 | 0.23 | -0.23 | -0.11 | 0.23 | 0.17 | |
| 51 | U | MC | 0.52 | 0.45 | 0.45 | -0.08 | -0.20 | -0.37 | |
| 52 | U | MC | 0.95 | 0.39 | -0.24 | -0.16 | 0.39 | -0.20 | |
| 53 | C | MC | 0.77 | 0.51 | -0.31 | -0.26 | 0.51 | -0.21 | |
| 54 | C | MC | 0.87 | 0.40 | 0.40 | -0.22 | -0.24 | -0.22 | |

Table A2 (cont.)
Summary Item Statistics - Mathematics Grade 3, Form 2 (Form B, D Operational Items)
N=24,120

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------|-------|--------|--------|--------|--------|--------|
| 55 | C | MC | 0.94 | 0.41 | 0.41 | -0.18 | -0.25 | -0.21 | |
| 56 | C | MC | 0.83 | 0.48 | -0.27 | -0.28 | -0.22 | 0.48 | |
| 57 | C | MC | 0.87 | 0.35 | -0.23 | 0.35 | -0.25 | -0.13 | |
| 58A | U | CR | 0.98 | 0.25 | | | | | |
| 58B | U | CR | 0.37 | 0.53 | | | | | |
| 59 | C | MC | 0.95 | 0.31 | -0.14 | 0.31 | -0.17 | -0.18 | |
| 60 | C | MC | 0.80 | 0.41 | 0.41 | -0.19 | -0.26 | -0.20 | |
| 61 | C | MC | 0.83 | 0.38 | -0.29 | -0.12 | -0.18 | 0.38 | |
| 62 | C | MC | 0.84 | 0.38 | -0.17 | 0.38 | -0.23 | -0.21 | |
| 63 | U | MC | 0.92 | 0.25 | -0.13 | 0.25 | -0.12 | -0.14 | |
| 64 | C | MC | 0.56 | 0.49 | -0.36 | -0.14 | -0.12 | 0.49 | |
| 65 | U | MC | 0.87 | 0.43 | -0.19 | -0.15 | 0.43 | -0.31 | |
| 66A | U | CR | 0.69 | 0.54 | | | | | |
| 66B | U | CR | 0.62 | 0.50 | | | | | |
| 67 | C | MC | 0.85 | 0.23 | 0.23 | -0.12 | -0.13 | -0.11 | |
| 68 | C | MC | 0.74 | 0.48 | -0.23 | 0.48 | -0.21 | -0.30 | |
| 69 | C | MC | 0.66 | 0.51 | -0.31 | -0.22 | -0.19 | 0.51 | |
| 70 | U | MC | 0.62 | 0.44 | -0.15 | 0.44 | -0.28 | -0.17 | |
| 71 | C | MC | 0.62 | 0.56 | 0.56 | -0.25 | -0.28 | -0.33 | |
| 72A | U | CR | 0.74 | 0.56 | | | | | |
| 72B | U | CR | 0.43 | 0.55 | | | | | |
| 73 | C | MC | 0.82 | 0.52 | -0.22 | -0.18 | -0.38 | 0.52 | |
| 74 | U | MC | 0.94 | 0.34 | -0.19 | 0.34 | -0.13 | -0.20 | |
| 75 | C | MC | 0.97 | 0.24 | -0.12 | -0.13 | 0.24 | -0.10 | |
| 76 | U | MC | 0.94 | 0.35 | -0.21 | -0.19 | 0.35 | -0.15 | |
| 77A | U | CR | 0.73 | 0.58 | | | | | |
| 77B | U | CR | 0.60 | 0.53 | | | | | |

Table A3
Summary Item Statistics - Mathematics Grade 4, Form 1 (Form A, C, E Operational Items)
N=37,011

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------|-------|--------|--------|--------|--------|--------|
| 1 | C | MC | 0.84 | 0.33 | -0.16 | -0.15 | 0.33 | -0.17 | -0.14 |
| 2 | C | MC | 0.70 | 0.35 | 0.35 | -0.29 | -0.05 | -0.12 | -0.09 |
| 3 | C | MC | 0.86 | 0.36 | -0.16 | -0.18 | -0.12 | 0.36 | -0.19 |
| 4 | C | MC | 0.62 | 0.39 | -0.24 | -0.15 | -0.09 | 0.39 | -0.17 |
| 10 | C | MC | 0.55 | 0.38 | -0.14 | -0.11 | -0.26 | 0.38 | |
| 17 | C | MC | 0.92 | 0.40 | -0.29 | 0.40 | -0.17 | -0.17 | |
| 18 | C | MC | 0.59 | 0.41 | 0.41 | -0.24 | -0.14 | -0.25 | |
| 20 | C | MC | 0.75 | 0.42 | -0.22 | 0.42 | -0.20 | -0.23 | |
| 27 | C | MC | 0.64 | 0.41 | -0.17 | -0.21 | 0.41 | -0.25 | |
| 31 | C | MC | 0.53 | 0.46 | -0.17 | 0.46 | -0.09 | -0.32 | |
| 33A | U | CR | 0.78 | 0.33 | | | | | |
| 33B | U | CR | 0.51 | 0.36 | | | | | |
| 34 | U | MC | 0.58 | 0.42 | -0.08 | -0.12 | 0.42 | -0.33 | |
| 35 | C | MC | 0.81 | 0.44 | -0.19 | 0.44 | -0.24 | -0.25 | |
| 36 | C | MC | 0.66 | 0.54 | -0.28 | -0.25 | -0.25 | 0.54 | |
| 37 | C | MC | 0.84 | 0.40 | -0.18 | -0.27 | -0.17 | 0.40 | |
| 38 | U | MC | 0.80 | 0.36 | -0.18 | -0.22 | -0.18 | 0.36 | |
| 39 | U | MC | 0.79 | 0.40 | -0.20 | -0.29 | 0.40 | -0.11 | |
| 40A | C | CR | 0.77 | 0.30 | | | | | |
| 40B | C | CR | 0.34 | 0.44 | | | | | |
| 41 | U | MC | 0.73 | 0.45 | -0.24 | -0.16 | 0.45 | -0.27 | |
| 42 | C | MC | 0.55 | 0.47 | -0.25 | -0.21 | 0.47 | -0.22 | |
| 43 | C | MC | 0.59 | 0.48 | -0.36 | -0.25 | -0.13 | 0.48 | |
| 44 | U | MC | 0.39 | 0.32 | -0.03 | -0.20 | 0.32 | -0.26 | |
| 45 | C | MC | 0.90 | 0.32 | -0.14 | 0.32 | -0.19 | -0.15 | |
| 46 | U | MC | 0.41 | 0.40 | -0.17 | -0.18 | -0.11 | 0.40 | |
| 47A | U | CR | 0.59 | 0.59 | | | | | |
| 47B | U | CR | 0.51 | 0.61 | | | | | |
| 48 | U | MC | 0.68 | 0.40 | -0.13 | -0.27 | 0.40 | -0.14 | |
| 49 | C | MC | 0.78 | 0.40 | -0.17 | -0.21 | 0.40 | -0.19 | |
| 50 | C | MC | 0.90 | 0.32 | -0.12 | -0.16 | 0.32 | -0.15 | |
| 51 | U | MC | 0.71 | 0.34 | 0.34 | -0.21 | -0.11 | -0.20 | |
| 52 | U | MC | 0.66 | 0.42 | -0.16 | -0.20 | -0.20 | 0.42 | |
| 53 | C | MC | 0.83 | 0.40 | -0.23 | -0.17 | -0.23 | 0.40 | |
| 54 | U | MC | 0.69 | 0.40 | -0.05 | -0.42 | 0.40 | -0.08 | |
| 55 | C | MC | 0.90 | 0.30 | 0.30 | -0.21 | -0.15 | -0.11 | |
| 56 | C | MC | 0.56 | 0.39 | -0.10 | 0.39 | -0.11 | -0.29 | |

Table A3 (cont.)
Summary Item Statistics - Mathematics Grade 4, Form 1 (Form A, C, E Operational Items)
N=37,011

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------------|-------|--------|--------|-------------|--------|--------|
| 58 | U | MC | 0.51 | 0.42 | -0.24 | -0.10 | 0.42 | -0.20 | |
| 59 | U | MC | 0.86 | 0.40 | -0.25 | 0.40 | -0.21 | -0.18 | |
| 60A | U | CR | 0.54 | 0.56 | | | | | |
| 60B | U | CR | 0.38 | 0.61 | | | | | |
| 61 | C | MC | 0.75 | 0.38 | -0.17 | -0.26 | 0.38 | -0.14 | |
| 62 | C | MC | 0.86 | 0.40 | -0.12 | 0.40 | -0.30 | -0.19 | |
| 63 | U | MC | 0.88 | 0.40 | -0.25 | -0.20 | -0.18 | 0.40 | |
| 64 | U | MC | 0.79 | 0.42 | 0.42 | -0.13 | -0.29 | -0.24 | |
| 65 | U | MC | 0.80 | 0.51 | -0.25 | -0.25 | -0.30 | 0.51 | |
| 66 | C | MC | 0.73 | 0.52 | -0.23 | -0.32 | -0.23 | 0.52 | |
| 67 | C | MC | 0.81 | 0.47 | -0.18 | 0.47 | -0.21 | -0.31 | |
| 68A | U | CR | 0.35 | 0.49 | | | | | |
| 68B | U | CR | 0.59 | 0.64 | | | | | |
| 69 | C | MC | 0.70 | 0.34 | -0.34 | -0.14 | 0.34 | -0.02 | |
| 70 | U | MC | 0.29 | 0.18 | -0.20 | 0.18 | 0.00 | -0.20 | |
| 71 | U | MC | 0.66 | 0.37 | -0.13 | 0.37 | -0.19 | -0.24 | |
| 72 | C | MC | 0.53 | 0.43 | -0.14 | -0.27 | 0.43 | -0.20 | |
| 73 | C | MC | 0.82 | 0.43 | 0.43 | -0.14 | -0.28 | -0.29 | |
| 74A | U | CR | 0.56 | 0.62 | | | | | |
| 74B | U | CR | 0.61 | 0.65 | | | | | |
| 75 | U | MC | 0.44 | 0.41 | -0.36 | -0.11 | 0.41 | -0.10 | |
| 76 | U | MC | 0.83 | 0.50 | -0.19 | 0.50 | -0.23 | -0.35 | |
| 77 | C | MC | 0.71 | 0.38 | 0.38 | -0.20 | -0.22 | -0.17 | |
| 78 | C | MC | 0.59 | 0.41 | -0.23 | 0.41 | -0.10 | -0.24 | |
| 79A | U | CR | 0.69 | 0.46 | | | | | |
| 79B | U | CR | 0.44 | 0.49 | | | | | |

Table A4
Summary Item Statistics - Mathematics Grade 4, Form 2 (Form B, D Operational Items)
N=24,774

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------|-------|--------|--------|--------|--------|--------|
| 1 | C | MC | 0.84 | 0.33 | -0.16 | -0.15 | 0.33 | -0.17 | -0.14 |
| 2 | C | MC | 0.70 | 0.35 | 0.35 | -0.30 | -0.06 | -0.11 | -0.10 |
| 3 | C | MC | 0.86 | 0.36 | -0.16 | -0.17 | -0.11 | 0.36 | -0.19 |
| 4 | C | MC | 0.63 | 0.40 | -0.24 | -0.16 | -0.09 | 0.40 | -0.17 |
| 10 | C | MC | 0.54 | 0.38 | -0.14 | -0.11 | -0.24 | 0.38 | |
| 17 | C | MC | 0.92 | 0.40 | -0.29 | 0.40 | -0.15 | -0.17 | |
| 18 | C | MC | 0.60 | 0.42 | 0.42 | -0.25 | -0.15 | -0.23 | |
| 20 | C | MC | 0.75 | 0.41 | -0.22 | 0.41 | -0.19 | -0.23 | |
| 27 | C | MC | 0.65 | 0.39 | -0.16 | -0.21 | 0.39 | -0.23 | |
| 31 | C | MC | 0.54 | 0.47 | -0.17 | 0.47 | -0.10 | -0.32 | |
| 33A | U | CR | 0.73 | 0.49 | | | | | |
| 33B | U | CR | 0.38 | 0.59 | | | | | |
| 34 | C | MC | 0.81 | 0.43 | -0.18 | 0.43 | -0.22 | -0.26 | |
| 35 | U | MC | 0.77 | 0.32 | -0.11 | 0.32 | -0.11 | -0.24 | |
| 36 | U | MC | 0.69 | 0.41 | -0.17 | -0.20 | 0.41 | -0.23 | |
| 37 | C | MC | 0.67 | 0.53 | -0.28 | -0.24 | -0.25 | 0.53 | |
| 38 | U | MC | 0.64 | 0.37 | -0.27 | -0.18 | 0.37 | -0.12 | |
| 39 | C | MC | 0.84 | 0.39 | -0.17 | -0.25 | -0.18 | 0.39 | |
| 40A | C | CR | 0.81 | 0.27 | | | | | |
| 40B | C | CR | 0.35 | 0.44 | | | | | |
| 41 | C | MC | 0.55 | 0.49 | -0.25 | -0.21 | 0.49 | -0.25 | |
| 42 | C | MC | 0.61 | 0.49 | -0.36 | -0.23 | -0.16 | 0.49 | |
| 43 | U | MC | 0.74 | 0.33 | 0.33 | -0.20 | -0.12 | -0.21 | |
| 44 | U | MC | 0.69 | 0.39 | -0.15 | 0.39 | -0.26 | -0.17 | |
| 45 | U | MC | 0.49 | 0.37 | -0.05 | 0.37 | -0.30 | -0.08 | |
| 46 | C | MC | 0.90 | 0.32 | -0.15 | 0.32 | -0.17 | -0.16 | |
| 47A | U | CR | 0.54 | 0.51 | | | | | |
| 47B | U | CR | 0.36 | 0.58 | | | | | |
| 48 | U | MC | 0.60 | 0.54 | -0.28 | -0.17 | 0.54 | -0.26 | |
| 49 | U | MC | 0.50 | 0.48 | -0.17 | -0.22 | -0.20 | 0.48 | |
| 50 | C | MC | 0.75 | 0.38 | -0.17 | -0.21 | 0.38 | -0.16 | |
| 51 | C | MC | 0.89 | 0.31 | -0.13 | -0.15 | 0.31 | -0.15 | |
| 52 | U | MC | 0.87 | 0.37 | 0.37 | -0.18 | -0.19 | -0.18 | |
| 53 | C | MC | 0.83 | 0.40 | -0.23 | -0.17 | -0.22 | 0.40 | |
| 54 | C | MC | 0.90 | 0.29 | 0.29 | -0.19 | -0.15 | -0.10 | |
| 55 | C | MC | 0.57 | 0.39 | -0.11 | 0.39 | -0.13 | -0.27 | |
| 56 | U | MC | 0.76 | 0.35 | -0.22 | 0.35 | -0.16 | -0.13 | |

Table A4 (cont.)
Summary Item Statistics - Mathematics Grade 4, Form 2 (Form B, D Operational Items)
N=24,774

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------|-------|--------|--------|--------|--------|--------|
| 57 | U | MC | 0.51 | 0.49 | -0.18 | -0.30 | 0.49 | -0.20 | |
| 58 | U | MC | 0.76 | 0.35 | -0.22 | -0.18 | -0.13 | 0.35 | |
| 59 | U | MC | 0.69 | 0.51 | -0.33 | -0.23 | -0.24 | 0.51 | |
| 60A | U | CR | 0.95 | 0.24 | | | | | |
| 60B | U | CR | 0.43 | 0.44 | | | | | |
| 61 | C | MC | 0.65 | 0.37 | -0.19 | -0.24 | 0.37 | -0.11 | |
| 62 | C | MC | 0.86 | 0.39 | -0.14 | 0.39 | -0.29 | -0.17 | |
| 63 | U | MC | 0.72 | 0.48 | -0.09 | -0.30 | -0.28 | 0.48 | |
| 64 | U | MC | 0.56 | 0.48 | -0.28 | -0.18 | -0.18 | 0.48 | |
| 65 | C | MC | 0.75 | 0.50 | -0.24 | -0.28 | -0.24 | 0.50 | |
| 66 | U | MC | 0.53 | 0.44 | -0.08 | 0.44 | -0.11 | -0.36 | |
| 67 | C | MC | 0.79 | 0.47 | -0.19 | 0.47 | -0.21 | -0.29 | |
| 68A | U | CR | 0.63 | 0.54 | | | | | |
| 68B | U | CR | 0.42 | 0.53 | | | | | |
| 69 | C | MC | 0.70 | 0.33 | -0.33 | -0.15 | 0.33 | -0.02 | |
| 70 | U | MC | 0.35 | 0.29 | -0.14 | -0.17 | -0.15 | 0.29 | |
| 71 | U | MC | 0.81 | 0.50 | -0.23 | -0.27 | -0.28 | 0.50 | |
| 72 | C | MC | 0.52 | 0.43 | -0.14 | -0.26 | 0.43 | -0.19 | |
| 73 | C | MC | 0.82 | 0.42 | 0.42 | -0.15 | -0.26 | -0.26 | |
| 74A | U | CR | 0.26 | 0.48 | | | | | |
| 74B | U | CR | 0.38 | 0.58 | | | | | |
| 75 | U | MC | 0.36 | 0.44 | -0.17 | -0.28 | 0.44 | -0.11 | |
| 76 | U | MC | 0.70 | 0.37 | -0.18 | -0.19 | 0.37 | -0.22 | |
| 77 | C | MC | 0.76 | 0.44 | 0.44 | -0.20 | -0.28 | -0.17 | |
| 78 | C | MC | 0.56 | 0.41 | -0.24 | 0.41 | -0.10 | -0.23 | |
| 79A | U | CR | 0.51 | 0.53 | | | | | |
| 79B | U | CR | 0.48 | 0.57 | | | | | |

Table A5
Summary Item Statistics - Mathematics Grade 5, Form 1 (Form A, C, E Operational Items)
N=38,101

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------|-------------|--------|--------|--------|-------------|--------|
| 2 | C | MC | 0.78 | 0.45 | 0.45 | -0.23 | -0.19 | -0.22 | -0.17 |
| 4 | C | MC | 0.72 | 0.46 | -0.15 | 0.46 | -0.21 | -0.24 | -0.19 |
| 6 | C | MC | 0.83 | 0.40 | -0.28 | -0.11 | -0.15 | 0.40 | -0.14 |
| 8 | C | MC | 0.65 | 0.45 | -0.19 | 0.45 | -0.23 | -0.17 | |
| 12 | C | MC | 0.77 | 0.47 | -0.17 | 0.47 | -0.33 | -0.21 | |
| 13 | C | MC | 0.81 | 0.26 | -0.10 | -0.18 | -0.13 | 0.26 | |
| 17 | C | MC | 0.66 | 0.12 | -0.04 | -0.02 | -0.09 | 0.12 | |
| 23 | C | MC | 0.71 | 0.51 | -0.25 | 0.51 | -0.31 | -0.20 | |
| 26 | C | MC | 0.59 | 0.51 | -0.21 | 0.51 | -0.16 | -0.37 | |
| 27 | C | MC | 0.70 | 0.54 | -0.25 | -0.20 | -0.33 | 0.54 | |
| 28 | C | MC | 0.68 | 0.39 | -0.22 | 0.39 | -0.21 | -0.13 | |
| 31 | C | MC | 0.63 | 0.49 | -0.30 | 0.49 | -0.21 | -0.19 | |
| 32 | C | MC | 0.87 | 0.40 | -0.23 | -0.21 | 0.40 | -0.19 | |
| 33A | U | CR | 0.56 | 0.47 | | | | | |
| 33B | U | CR | 0.33 | 0.48 | | | | | |
| 34 | U | MC | 0.56 | 0.53 | -0.49 | 0.53 | -0.05 | -0.11 | |
| 35 | U | MC | 0.86 | 0.48 | 0.48 | -0.27 | -0.26 | -0.25 | |
| 36 | C | MC | 0.64 | 0.27 | -0.10 | -0.18 | -0.13 | 0.27 | |
| 37 | C | MC | 0.62 | 0.26 | 0.26 | -0.21 | -0.06 | -0.13 | |
| 38 | U | MC | 0.41 | 0.49 | -0.08 | -0.08 | 0.49 | -0.39 | |
| 39 | C | MC | 0.73 | 0.46 | -0.21 | -0.21 | 0.46 | -0.27 | |
| 40A | U | CR | 0.79 | 0.42 | | | | | |
| 40B | U | CR | 0.41 | 0.46 | | | | | |
| 41 | C | MC | 0.67 | 0.41 | 0.41 | -0.21 | -0.21 | -0.18 | |
| 42 | C | MC | 0.83 | 0.39 | -0.13 | -0.21 | -0.24 | 0.39 | |
| 43 | C | MC | 0.38 | 0.30 | -0.08 | 0.30 | -0.16 | -0.11 | |
| 44 | C | MC | 0.38 | 0.34 | -0.03 | 0.34 | -0.19 | -0.20 | |
| 45 | C | MC | 0.86 | 0.39 | -0.15 | 0.39 | -0.21 | -0.23 | |
| 46 | C | MC | 0.55 | 0.34 | -0.19 | 0.34 | -0.09 | -0.16 | |
| 47A | U | CR | 0.33 | 0.49 | | | | | |
| 47B | U | CR | 0.30 | 0.59 | | | | | |
| 48 | U | MC | 0.57 | 0.50 | -0.09 | 0.50 | -0.11 | -0.40 | |
| 49 | C | MC | 0.85 | 0.34 | -0.20 | 0.34 | -0.18 | -0.15 | |
| 50 | C | MC | 0.49 | 0.36 | -0.16 | -0.12 | -0.17 | 0.36 | |
| 51 | U | MC | 0.75 | 0.31 | -0.15 | -0.22 | -0.12 | 0.31 | |
| 52 | U | MC | 0.48 | 0.26 | -0.10 | -0.07 | 0.26 | -0.18 | |
| 53 | U | MC | 0.82 | 0.39 | -0.26 | -0.18 | 0.39 | -0.16 | |

Table A5 (cont.)
Summary Item Statistics - Mathematics Grade 5, Form 1 (Form A, C, E Operational Items)
N=38,101

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------|-------|--------|--------|--------|--------|--------|
| 54 | C | MC | 0.48 | 0.43 | -0.32 | -0.16 | 0.43 | -0.06 | |
| 55 | C | MC | 0.84 | 0.41 | -0.26 | -0.19 | -0.18 | 0.41 | |
| 56 | C | MC | 0.68 | 0.41 | -0.22 | -0.18 | -0.20 | 0.41 | |
| 57A | U | CR | 0.40 | 0.50 | | | | | |
| 57B | U | CR | 0.46 | 0.56 | | | | | |
| 58 | U | MC | 0.75 | 0.45 | -0.25 | -0.26 | -0.16 | 0.45 | |
| 59 | U | MC | 0.94 | 0.23 | 0.23 | -0.11 | -0.09 | -0.14 | |
| 60 | C | MC | 0.76 | 0.50 | 0.50 | -0.22 | -0.24 | -0.30 | |
| 61 | C | MC | 0.57 | 0.46 | -0.19 | 0.46 | -0.21 | -0.23 | |
| 62 | C | MC | 0.78 | 0.42 | -0.13 | -0.25 | 0.42 | -0.28 | |
| 63A | U | CR | 0.75 | 0.58 | | | | | |
| 63B | U | CR | 0.61 | 0.54 | | | | | |
| 64A | U | CR | 0.93 | 0.28 | | | | | |
| 64B | U | CR | 0.52 | 0.46 | | | | | |
| 65 | U | MC | 0.89 | 0.34 | -0.15 | 0.34 | -0.17 | -0.23 | |
| 66 | C | MC | 0.81 | 0.45 | -0.36 | -0.13 | 0.45 | -0.16 | |
| 67 | C | MC | 0.70 | 0.48 | 0.48 | -0.21 | -0.32 | -0.18 | |
| 68 | C | MC | 0.78 | 0.42 | -0.22 | 0.42 | -0.21 | -0.22 | |
| 69 | C | MC | 0.56 | 0.47 | -0.22 | 0.47 | -0.28 | -0.15 | |
| 70A | C | CR | 0.35 | 0.52 | | | | | |
| 70B | C | CR | 0.29 | 0.54 | | | | | |
| 71 | U | MC | 0.78 | 0.40 | -0.28 | 0.40 | -0.16 | -0.19 | |
| 72 | C | MC | 0.64 | 0.52 | -0.09 | -0.43 | 0.52 | -0.15 | |
| 73 | C | MC | 0.85 | 0.30 | -0.12 | 0.30 | -0.20 | -0.15 | |
| 74 | C | MC | 0.83 | 0.40 | 0.40 | -0.22 | -0.17 | -0.23 | |
| 75 | C | MC | 0.62 | 0.43 | -0.24 | -0.16 | -0.19 | 0.43 | |
| 76A | U | CR | 0.44 | 0.58 | | | | | |
| 76B | U | CR | 0.45 | 0.61 | | | | | |

Table A6
Summary Item Statistics - Mathematics Grade 5, Form 2 (Form B, D Operational Items)
N=25,372

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------|-------------|--------|-------------|--------|-------------|--------|
| 2 | C | MC | 0.78 | 0.45 | 0.45 | -0.23 | -0.20 | -0.22 | -0.17 |
| 4 | C | MC | 0.72 | 0.45 | -0.16 | 0.45 | -0.21 | -0.23 | -0.19 |
| 6 | C | MC | 0.84 | 0.39 | -0.28 | -0.10 | -0.15 | 0.39 | -0.14 |
| 8 | C | MC | 0.66 | 0.45 | -0.20 | 0.45 | -0.23 | -0.18 | |
| 12 | C | MC | 0.78 | 0.46 | -0.17 | 0.46 | -0.33 | -0.20 | |
| 13 | C | MC | 0.82 | 0.26 | -0.10 | -0.18 | -0.12 | 0.26 | |
| 17 | C | MC | 0.66 | 0.12 | -0.03 | -0.02 | -0.10 | 0.12 | |
| 23 | C | MC | 0.71 | 0.52 | -0.27 | 0.52 | -0.31 | -0.20 | |
| 26 | C | MC | 0.60 | 0.51 | -0.21 | 0.51 | -0.16 | -0.37 | |
| 27 | C | MC | 0.71 | 0.54 | -0.25 | -0.21 | -0.33 | 0.54 | |
| 28 | C | MC | 0.69 | 0.39 | -0.23 | 0.39 | -0.21 | -0.12 | |
| 31 | C | MC | 0.64 | 0.50 | -0.30 | 0.50 | -0.20 | -0.20 | |
| 32 | C | MC | 0.88 | 0.40 | -0.21 | -0.21 | 0.40 | -0.19 | |
| 33A | U | CR | 0.69 | 0.37 | | | | | |
| 33B | U | CR | 0.52 | 0.38 | | | | | |
| 34 | U | MC | 0.68 | 0.58 | -0.27 | -0.32 | -0.29 | 0.58 | |
| 35 | U | MC | 0.84 | 0.43 | -0.20 | -0.21 | 0.43 | -0.26 | |
| 36 | C | MC | 0.64 | 0.28 | 0.28 | -0.21 | -0.06 | -0.16 | |
| 37 | C | MC | 0.62 | 0.27 | -0.09 | -0.18 | -0.14 | 0.27 | |
| 38 | C | MC | 0.73 | 0.45 | -0.20 | -0.22 | 0.45 | -0.27 | |
| 39 | U | MC | 0.59 | 0.25 | 0.25 | -0.09 | -0.07 | -0.20 | |
| 40A | U | CR | 0.61 | 0.43 | | | | | |
| 40B | U | CR | 0.46 | 0.66 | | | | | |
| 41 | C | MC | 0.68 | 0.41 | 0.41 | -0.21 | -0.21 | -0.18 | |
| 42 | C | MC | 0.82 | 0.38 | -0.13 | -0.21 | -0.22 | 0.38 | |
| 43 | C | MC | 0.39 | 0.31 | -0.08 | 0.31 | -0.17 | -0.12 | |
| 44 | C | MC | 0.39 | 0.36 | -0.05 | 0.36 | -0.21 | -0.20 | |
| 45 | C | MC | 0.87 | 0.38 | -0.16 | 0.38 | -0.20 | -0.22 | |
| 46 | C | MC | 0.56 | 0.36 | -0.20 | 0.36 | -0.12 | -0.16 | |
| 47A | U | CR | 0.38 | 0.53 | | | | | |
| 47B | U | CR | 0.53 | 0.62 | | | | | |
| 48 | U | MC | 0.64 | 0.40 | -0.20 | -0.16 | -0.21 | 0.40 | |
| 49 | C | MC | 0.84 | 0.34 | -0.20 | 0.34 | -0.17 | -0.14 | |
| 50 | C | MC | 0.49 | 0.38 | -0.17 | -0.11 | -0.19 | 0.38 | |
| 51 | U | MC | 0.46 | 0.37 | -0.35 | 0.00 | -0.03 | 0.37 | |
| 52 | U | MC | 0.55 | 0.42 | -0.08 | -0.18 | 0.42 | -0.29 | |
| 53 | U | MC | 0.73 | 0.31 | -0.25 | 0.31 | -0.06 | -0.12 | |

Table A6 (cont.)
Summary Item Statistics - Mathematics Grade 5, Form 2 (Form B, D Operational Items)
N=25,372

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------|-------|--------|--------|--------|--------|--------|
| 54 | U | MC | 0.83 | 0.38 | -0.16 | -0.29 | -0.11 | 0.38 | |
| 55 | C | MC | 0.48 | 0.42 | -0.33 | -0.14 | 0.42 | -0.06 | |
| 56 | U | MC | 0.58 | 0.50 | 0.50 | -0.12 | -0.20 | -0.35 | |
| 57A | U | CR | 0.30 | 0.51 | | | | | |
| 57B | U | CR | 0.48 | 0.58 | | | | | |
| 58 | C | MC | 0.78 | 0.47 | 0.47 | -0.21 | -0.22 | -0.30 | |
| 59 | C | MC | 0.69 | 0.43 | -0.23 | -0.20 | -0.20 | 0.43 | |
| 60 | C | MC | 0.82 | 0.42 | -0.26 | -0.20 | -0.19 | 0.42 | |
| 61 | C | MC | 0.55 | 0.45 | -0.18 | 0.45 | -0.21 | -0.23 | |
| 62 | C | MC | 0.77 | 0.40 | -0.13 | -0.24 | 0.40 | -0.25 | |
| 63A | U | CR | 0.83 | 0.35 | | | | | |
| 63B | U | CR | 0.55 | 0.40 | | | | | |
| 64A | U | CR | 0.31 | 0.44 | | | | | |
| 64B | U | CR | 0.22 | 0.45 | | | | | |
| 65 | U | MC | 0.86 | 0.38 | 0.38 | -0.19 | -0.17 | -0.25 | |
| 66 | C | MC | 0.82 | 0.43 | -0.33 | -0.14 | 0.43 | -0.16 | |
| 67 | C | MC | 0.65 | 0.52 | 0.52 | -0.23 | -0.34 | -0.19 | |
| 68 | C | MC | 0.78 | 0.41 | -0.21 | 0.41 | -0.22 | -0.22 | |
| 69 | C | MC | 0.57 | 0.47 | -0.22 | 0.47 | -0.28 | -0.16 | |
| 70A | C | CR | 0.35 | 0.52 | | | | | |
| 70B | C | CR | 0.28 | 0.52 | | | | | |
| 71 | U | MC | 0.78 | 0.37 | -0.24 | 0.37 | -0.17 | -0.16 | |
| 72 | C | MC | 0.64 | 0.52 | -0.08 | -0.45 | 0.52 | -0.15 | |
| 73 | C | MC | 0.83 | 0.29 | -0.11 | 0.29 | -0.20 | -0.14 | |
| 74 | C | MC | 0.83 | 0.40 | 0.40 | -0.22 | -0.17 | -0.22 | |
| 75 | C | MC | 0.62 | 0.45 | -0.25 | -0.17 | -0.20 | 0.45 | |
| 76A | U | CR | 0.43 | 0.58 | | | | | |
| 76B | U | CR | 0.43 | 0.61 | | | | | |

Table A7
Summary Item Statistics - Mathematics Grade 6, Form 1 (Form A, C, E Operational Items)
N=38,922

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------------|-------|--------|--------|--------|--------|--------|
| 6 | C | MC | 0.72 | 0.48 | 0.48 | -0.21 | -0.13 | -0.28 | -0.15 |
| 13 | C | MC | 0.81 | 0.48 | -0.27 | -0.24 | 0.48 | -0.19 | |
| 17 | C | MC | 0.76 | 0.43 | -0.26 | -0.25 | 0.43 | -0.10 | |
| 18 | C | MC | 0.77 | 0.49 | -0.14 | -0.17 | 0.49 | -0.36 | |
| 20 | C | MC | 0.71 | 0.56 | -0.31 | -0.18 | -0.31 | 0.56 | |
| 32 | C | MC | 0.55 | 0.52 | -0.25 | -0.33 | 0.52 | -0.06 | |
| 33 | U | MC | 0.82 | 0.41 | -0.18 | -0.25 | 0.41 | -0.18 | |
| 34 | C | MC | 0.35 | 0.35 | -0.21 | -0.22 | 0.35 | -0.01 | |
| 35 | C | MC | 0.64 | 0.39 | -0.21 | 0.39 | -0.18 | -0.14 | |
| 36 | U | MC | 0.82 | 0.49 | -0.28 | -0.24 | 0.49 | -0.22 | |
| 37 | C | MC | 0.52 | 0.58 | -0.14 | -0.46 | 0.58 | -0.10 | |
| 38 | C | MC | 0.72 | 0.46 | -0.15 | 0.46 | -0.27 | -0.24 | |
| 39 | U | MC | 0.66 | 0.43 | -0.08 | 0.43 | -0.28 | -0.23 | |
| 40A | U | CR | 0.56 | 0.55 | | | | | |
| 40B | U | CR | 0.33 | 0.66 | | | | | |
| 41 | C | MC | 0.67 | 0.40 | -0.20 | 0.40 | -0.12 | -0.23 | |
| 42 | C | MC | 0.57 | 0.39 | -0.32 | -0.16 | 0.39 | -0.02 | |
| 43 | U | MC | 0.79 | 0.41 | -0.22 | -0.17 | -0.19 | 0.41 | |
| 44 | U | MC | 0.53 | 0.38 | -0.25 | 0.38 | -0.11 | -0.11 | |
| 45 | U | MC | 0.71 | 0.55 | -0.31 | -0.29 | 0.55 | -0.16 | |
| 46 | C | MC | 0.46 | 0.28 | 0.28 | -0.01 | -0.20 | -0.20 | |
| 47 | C | MC | 0.43 | 0.45 | 0.45 | -0.22 | -0.15 | -0.18 | |
| 48 | U | MC | 0.42 | 0.45 | -0.20 | -0.11 | 0.45 | -0.18 | |
| 49A | U | CR | 0.47 | 0.54 | | | | | |
| 49B | U | CR | 0.35 | 0.56 | | | | | |
| 50 | U | MC | 0.52 | 0.38 | -0.15 | -0.16 | 0.38 | -0.13 | |
| 51 | U | MC | 0.60 | 0.43 | -0.12 | 0.43 | -0.26 | -0.16 | |
| 52 | C | MC | 0.46 | 0.36 | 0.36 | -0.25 | -0.12 | -0.04 | |
| 53 | C | MC | 0.39 | 0.32 | -0.16 | -0.03 | 0.32 | -0.19 | |
| 54 | C | MC | 0.55 | 0.32 | 0.32 | -0.20 | -0.21 | 0.00 | |
| 55 | U | MC | 0.26 | 0.42 | 0.42 | -0.25 | -0.05 | -0.02 | |
| 56 | U | MC | 0.57 | 0.33 | -0.16 | -0.20 | 0.33 | -0.06 | |
| 57 | U | MC | 0.60 | 0.51 | -0.36 | -0.18 | 0.51 | -0.10 | |
| 58 | C | MC | 0.66 | 0.44 | -0.22 | -0.15 | 0.44 | -0.24 | |
| 59 | C | MC | 0.47 | 0.45 | -0.21 | -0.15 | 0.45 | -0.19 | |
| 60 | C | MC | 0.64 | 0.39 | -0.16 | 0.39 | -0.23 | -0.14 | |
| 61 | U | MC | 0.54 | 0.51 | 0.51 | -0.29 | -0.26 | -0.09 | |

Table A7 (cont.)
Summary Item Statistics - Mathematics Grade 6, Form 1 (Form A, C, E Operational Items)
N=38,922

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------|-------|--------|--------|--------|--------|--------|
| 62 | U | MC | 0.65 | 0.40 | -0.16 | 0.40 | -0.20 | -0.18 | |
| 63A | U | CR | 0.38 | 0.57 | | | | | |
| 63B | U | CR | 0.29 | 0.62 | | | | | |
| 64 | C | MC | 0.80 | 0.35 | -0.30 | -0.09 | 0.35 | -0.09 | |
| 65 | C | MC | 0.86 | 0.47 | 0.47 | -0.25 | -0.23 | -0.21 | |
| 66 | C | MC | 0.83 | 0.33 | -0.15 | 0.33 | -0.16 | -0.17 | |
| 67 | C | MC | 0.60 | 0.43 | 0.43 | -0.09 | -0.29 | -0.27 | |
| 68A | U | CR | 0.74 | 0.54 | | | | | |
| 68B | U | CR | 0.56 | 0.36 | | | | | |
| 69A | C | CR | 0.41 | 0.35 | | | | | |
| 69B | C | CR | 0.53 | 0.62 | | | | | |
| 70 | C | MC | 0.71 | 0.43 | -0.15 | 0.43 | -0.26 | -0.19 | |
| 71 | C | MC | 0.50 | 0.39 | -0.17 | -0.23 | -0.16 | 0.39 | |
| 72 | U | MC | 0.65 | 0.49 | -0.22 | -0.19 | -0.28 | 0.49 | |
| 73 | U | MC | 0.38 | 0.34 | -0.03 | 0.34 | -0.08 | -0.25 | |
| 74 | C | MC | 0.48 | 0.30 | -0.11 | -0.12 | -0.17 | 0.30 | |
| 75A | U | CR | 0.54 | 0.67 | | | | | |
| 75B | U | CR | 0.46 | 0.67 | | | | | |
| 76 | C | MC | 0.50 | 0.49 | -0.27 | -0.20 | -0.14 | 0.49 | |
| 77 | U | MC | 0.73 | 0.48 | 0.48 | -0.25 | -0.21 | -0.23 | |
| 78 | U | MC | 0.57 | 0.37 | 0.37 | -0.20 | -0.21 | -0.07 | |
| 79 | C | MC | 0.72 | 0.54 | -0.34 | 0.54 | -0.23 | -0.21 | |
| 80 | U | MC | 0.62 | 0.51 | -0.19 | -0.28 | -0.22 | 0.51 | |
| 81A | U | CR | 0.52 | 0.56 | | | | | |
| 81B | U | CR | 0.44 | 0.63 | | | | | |

Table A8
Summary Item Statistics - Mathematics Grade 6, Form 2 (Form B, D Operational Items)
N=25,828

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------------|-------|--------|-------------|--------|--------|--------|
| 6 | C | MC | 0.73 | 0.46 | 0.46 | -0.21 | -0.13 | -0.26 | -0.14 |
| 13 | C | MC | 0.82 | 0.45 | -0.27 | -0.22 | 0.45 | -0.17 | |
| 17 | C | MC | 0.76 | 0.43 | -0.26 | -0.24 | 0.43 | -0.10 | |
| 18 | C | MC | 0.77 | 0.48 | -0.13 | -0.17 | 0.48 | -0.35 | |
| 20 | C | MC | 0.72 | 0.56 | -0.33 | -0.18 | -0.29 | 0.56 | |
| 32 | C | MC | 0.55 | 0.52 | -0.25 | -0.34 | 0.52 | -0.06 | |
| 33 | U | MC | 0.89 | 0.31 | 0.31 | -0.15 | -0.14 | -0.14 | |
| 34 | C | MC | 0.38 | 0.36 | -0.21 | -0.22 | 0.36 | -0.02 | |
| 35 | U | MC | 0.80 | 0.46 | -0.26 | -0.21 | 0.46 | -0.21 | |
| 36 | C | MC | 0.65 | 0.38 | -0.20 | 0.38 | -0.16 | -0.15 | |
| 37 | C | MC | 0.53 | 0.59 | -0.15 | -0.46 | 0.59 | -0.09 | |
| 38 | C | MC | 0.72 | 0.46 | -0.16 | 0.46 | -0.28 | -0.22 | |
| 39 | U | MC | 0.72 | 0.45 | -0.05 | 0.45 | -0.29 | -0.27 | |
| 40A | U | CR | 0.64 | 0.56 | | | | | |
| 40B | U | CR | 0.44 | 0.65 | | | | | |
| 41 | C | MC | 0.69 | 0.38 | -0.18 | 0.38 | -0.11 | -0.23 | |
| 42 | C | MC | 0.56 | 0.38 | -0.31 | -0.16 | 0.38 | -0.02 | |
| 43 | C | MC | 0.48 | 0.29 | 0.29 | -0.04 | -0.18 | -0.21 | |
| 44 | U | MC | 0.73 | 0.52 | -0.25 | -0.30 | 0.52 | -0.19 | |
| 45 | U | MC | 0.78 | 0.49 | -0.17 | 0.49 | -0.23 | -0.30 | |
| 46 | U | MC | 0.49 | 0.49 | -0.19 | -0.19 | 0.49 | -0.25 | |
| 47 | C | MC | 0.43 | 0.41 | 0.41 | -0.21 | -0.14 | -0.16 | |
| 48 | U | MC | 0.32 | 0.32 | -0.22 | 0.06 | -0.12 | 0.32 | |
| 49A | U | CR | 0.61 | 0.55 | | | | | |
| 49B | U | CR | 0.51 | 0.63 | | | | | |
| 50 | U | MC | 0.81 | 0.41 | -0.15 | -0.16 | -0.26 | 0.41 | |
| 51 | U | MC | 0.42 | 0.49 | -0.22 | 0.49 | -0.13 | -0.19 | |
| 52 | U | MC | 0.34 | 0.28 | -0.06 | -0.05 | 0.28 | -0.12 | |
| 53 | C | MC | 0.40 | 0.34 | -0.14 | -0.06 | 0.34 | -0.19 | |
| 54 | C | MC | 0.59 | 0.36 | 0.36 | -0.19 | -0.19 | -0.08 | |
| 55 | C | MC | 0.43 | 0.33 | 0.33 | -0.24 | -0.12 | -0.01 | |
| 56 | U | MC | 0.62 | 0.42 | -0.23 | -0.11 | -0.22 | 0.42 | |
| 57 | U | MC | 0.29 | 0.24 | -0.03 | 0.24 | -0.08 | -0.07 | |
| 58 | U | MC | 0.77 | 0.49 | 0.49 | -0.31 | -0.22 | -0.17 | |
| 59 | C | MC | 0.67 | 0.41 | -0.21 | -0.12 | 0.41 | -0.24 | |
| 60 | C | MC | 0.48 | 0.45 | -0.22 | -0.14 | 0.45 | -0.19 | |
| 61 | C | MC | 0.80 | 0.35 | -0.28 | -0.11 | 0.35 | -0.09 | |

Table A8 (cont.)
Summary Item Statistics - Mathematics Grade 6, Form 2 (Form B, D Operational Items)
N=25,828

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------------|-------------|--------|-------------|--------|-------------|--------|
| 62 | U | MC | 0.51 | 0.31 | -0.15 | 0.31 | -0.12 | -0.08 | |
| 63A | U | CR | 0.45 | 0.55 | | | | | |
| 63B | U | CR | 0.41 | 0.55 | | | | | |
| 64 | C | MC | 0.61 | 0.40 | -0.19 | 0.40 | -0.20 | -0.12 | |
| 65 | C | MC | 0.84 | 0.33 | -0.16 | 0.33 | -0.15 | -0.15 | |
| 66 | C | MC | 0.84 | 0.48 | 0.48 | -0.22 | -0.23 | -0.23 | |
| 67 | C | MC | 0.59 | 0.42 | 0.42 | -0.10 | -0.26 | -0.25 | |
| 68A | U | CR | 0.39 | 0.58 | | | | | |
| 68B | U | CR | 0.44 | 0.50 | | | | | |
| 69A | C | CR | 0.37 | 0.34 | | | | | |
| 69B | C | CR | 0.51 | 0.60 | | | | | |
| 70 | C | MC | 0.70 | 0.40 | -0.13 | 0.40 | -0.25 | -0.17 | |
| 71 | C | MC | 0.54 | 0.42 | -0.21 | -0.24 | -0.15 | 0.42 | |
| 72 | U | MC | 0.34 | 0.09 | -0.07 | 0.09 | -0.02 | 0.01 | |
| 73 | U | MC | 0.79 | 0.38 | -0.22 | 0.38 | -0.16 | -0.18 | |
| 74 | C | MC | 0.51 | 0.47 | -0.25 | -0.17 | -0.16 | 0.47 | |
| 75A | U | CR | 0.38 | 0.64 | | | | | |
| 75B | U | CR | 0.43 | 0.70 | | | | | |
| 76 | C | MC | 0.53 | 0.30 | -0.10 | -0.13 | -0.18 | 0.30 | |
| 77 | U | MC | 0.72 | 0.35 | 0.35 | -0.13 | -0.23 | -0.14 | |
| 78 | U | MC | 0.25 | 0.16 | -0.08 | -0.08 | 0.16 | 0.07 | |
| 79 | U | MC | 0.79 | 0.50 | -0.26 | 0.50 | -0.23 | -0.22 | |
| 80 | C | MC | 0.72 | 0.54 | -0.35 | 0.54 | -0.20 | -0.20 | |
| 81A | U | CR | 0.56 | 0.60 | | | | | |
| 81B | U | CR | 0.38 | 0.62 | | | | | |

Table A9
Summary Item Statistics – Mathematics Grade 7, Form 1 (Form A, C, E Operational Items)
N=39,533

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------------|-------|--------|--------|--------|-------------|--------|
| 3 | C | MC | 0.54 | 0.44 | -0.17 | 0.44 | -0.22 | -0.13 | -0.09 |
| 9 | C | MC | 0.70 | 0.39 | -0.13 | -0.14 | 0.39 | -0.20 | |
| 13 | C | MC | 0.65 | 0.58 | -0.25 | 0.58 | -0.31 | -0.26 | |
| 15 | C | MC | 0.90 | 0.34 | 0.34 | -0.17 | -0.18 | -0.15 | |
| 24 | C | MC | 0.60 | 0.59 | 0.59 | -0.24 | -0.35 | -0.21 | |
| 32 | C | MC | 0.53 | 0.45 | -0.04 | -0.17 | 0.45 | -0.33 | |
| 33A | U | CR | 0.32 | 0.61 | | | | | |
| 33B | U | CR | 0.45 | 0.61 | | | | | |
| 34 | U | MC | 0.44 | 0.50 | -0.22 | -0.23 | 0.50 | -0.15 | |
| 35 | C | MC | 0.34 | 0.44 | -0.13 | -0.06 | -0.24 | 0.44 | |
| 36 | C | MC | 0.50 | 0.49 | -0.20 | 0.49 | -0.26 | -0.22 | |
| 37 | C | MC | 0.63 | 0.59 | -0.19 | -0.29 | 0.59 | -0.32 | |
| 38 | U | MC | 0.55 | 0.51 | -0.28 | 0.51 | -0.21 | -0.16 | |
| 39 | C | MC | 0.61 | 0.59 | 0.59 | -0.27 | -0.31 | -0.22 | |
| 40 | C | MC | 0.72 | 0.57 | 0.57 | -0.18 | -0.36 | -0.26 | |
| 41 | U | MC | 0.45 | 0.59 | -0.24 | -0.27 | -0.23 | 0.59 | |
| 42 | C | MC | 0.63 | 0.33 | -0.20 | -0.12 | 0.33 | -0.17 | |
| 43A | U | CR | 0.69 | 0.57 | | | | | |
| 43B | U | CR | 0.67 | 0.56 | | | | | |
| 44 | C | MC | 0.64 | 0.44 | -0.14 | 0.44 | -0.28 | -0.16 | |
| 45 | C | MC | 0.60 | 0.54 | -0.21 | -0.32 | 0.54 | -0.18 | |
| 46 | C | MC | 0.63 | 0.48 | -0.16 | -0.22 | -0.25 | 0.48 | |
| 47 | U | MC | 0.59 | 0.44 | -0.21 | -0.19 | -0.17 | 0.44 | |
| 48 | U | MC | 0.52 | 0.23 | -0.20 | -0.15 | 0.23 | 0.07 | |
| 49 | C | MC | 0.50 | 0.56 | 0.56 | -0.20 | -0.29 | -0.19 | |
| 50 | U | MC | 0.26 | 0.36 | -0.17 | -0.18 | 0.36 | -0.02 | |
| 51 | C | MC | 0.35 | 0.36 | -0.15 | -0.16 | 0.36 | -0.01 | |
| 52 | U | MC | 0.61 | 0.51 | -0.19 | -0.32 | -0.15 | 0.51 | |
| 53A | U | CR | 0.27 | 0.53 | | | | | |
| 53B | U | CR | 0.12 | 0.51 | | | | | |
| 54 | C | SPR | 0.64 | 0.55 | | | | | |
| 55 | U | SPR | 0.53 | 0.63 | | | | | |
| 56 | C | SPR | 0.44 | 0.64 | | | | | |
| 57 | U | SPR | 0.22 | 0.51 | | | | | |
| 58 | C | MC | 0.53 | 0.50 | 0.50 | -0.30 | -0.15 | -0.20 | |
| 59 | C | MC | 0.77 | 0.36 | -0.13 | 0.36 | -0.17 | -0.20 | |
| 60 | C | MC | 0.73 | 0.57 | -0.40 | -0.27 | -0.11 | 0.57 | |

Table A9 (cont.)
Summary Item Statistics – Mathematics Grade 7, Form 1 (Form A, C, E Operational Items)
N=39,533

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------|-------|--------|-------------|--------|-------------|--------|
| 61 | C | MC | 0.73 | 0.41 | -0.15 | -0.13 | 0.41 | -0.30 | |
| 62 | U | MC | 0.31 | 0.32 | -0.20 | 0.32 | -0.03 | -0.05 | |
| 63A | U | CR | 0.75 | 0.42 | | | | | |
| 63B | U | CR | 0.60 | 0.51 | | | | | |
| 64 | U | SPR | 0.74 | 0.51 | | | | | |
| 65 | U | SPR | 0.28 | 0.55 | | | | | |
| 66 | U | SPR | 0.38 | 0.49 | | | | | |
| 67 | C | SPR | 0.42 | 0.63 | | | | | |
| 68A | U | CR | 0.46 | 0.56 | | | | | |
| 68B | U | CR | 0.64 | 0.62 | | | | | |
| 69 | C | MC | 0.64 | 0.54 | 0.54 | -0.20 | -0.24 | -0.25 | |
| 70 | C | MC | 0.41 | 0.39 | -0.15 | -0.22 | -0.04 | 0.39 | |
| 71 | C | MC | 0.50 | 0.61 | 0.61 | -0.37 | -0.18 | -0.16 | |
| 72 | C | MC | 0.57 | 0.41 | -0.24 | 0.41 | -0.17 | -0.06 | |
| 73 | C | MC | 0.55 | 0.43 | 0.43 | -0.10 | -0.17 | -0.22 | |
| 74 | C | MC | 0.41 | 0.49 | -0.07 | -0.31 | -0.16 | 0.49 | |
| 75 | U | MC | 0.39 | 0.19 | -0.17 | 0.04 | 0.19 | 0.02 | |
| 76A | U | CR | 0.25 | 0.55 | | | | | |
| 76B | U | CR | 0.35 | 0.62 | | | | | |
| 77 | C | SPR | 0.23 | 0.43 | | | | | |
| 78 | U | SPR | 0.56 | 0.60 | | | | | |
| 79 | U | SPR | 0.57 | 0.51 | | | | | |
| 80 | C | SPR | 0.28 | 0.55 | | | | | |
| 81A | C | CR | 0.49 | 0.60 | | | | | |
| 81B | C | CR | 0.54 | 0.72 | | | | | |

Table A10
Summary Item Statistics – Mathematics Grade 7, Form 2 (Form B, D Operational Items)
N=26,296

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------------|-------|--------|--------|--------|-------------|--------|
| 3 | C | MC | 0.54 | 0.44 | -0.17 | 0.44 | -0.22 | -0.12 | -0.10 |
| 9 | C | MC | 0.70 | 0.38 | -0.13 | -0.14 | 0.38 | -0.20 | |
| 13 | C | MC | 0.65 | 0.58 | -0.24 | 0.58 | -0.31 | -0.26 | |
| 15 | C | MC | 0.90 | 0.33 | 0.33 | -0.16 | -0.18 | -0.14 | |
| 24 | C | MC | 0.60 | 0.59 | 0.59 | -0.25 | -0.34 | -0.20 | |
| 32 | C | MC | 0.54 | 0.45 | -0.04 | -0.17 | 0.45 | -0.34 | |
| 33A | U | CR | 0.41 | 0.46 | | | | | |
| 33B | U | CR | 0.19 | 0.48 | | | | | |
| 34 | C | MC | 0.50 | 0.49 | -0.19 | 0.49 | -0.26 | -0.24 | |
| 35 | C | MC | 0.63 | 0.58 | -0.18 | -0.29 | 0.58 | -0.32 | |
| 36 | C | MC | 0.33 | 0.43 | -0.14 | -0.04 | -0.24 | 0.43 | |
| 37 | C | MC | 0.70 | 0.55 | 0.55 | -0.15 | -0.36 | -0.24 | |
| 38 | C | MC | 0.64 | 0.46 | -0.16 | 0.46 | -0.27 | -0.18 | |
| 39 | C | MC | 0.66 | 0.34 | -0.20 | -0.15 | 0.34 | -0.14 | |
| 40 | U | MC | 0.39 | 0.44 | -0.17 | -0.14 | 0.44 | -0.16 | |
| 41 | C | MC | 0.50 | 0.55 | 0.55 | -0.20 | -0.30 | -0.19 | |
| 42 | U | MC | 0.23 | 0.40 | 0.40 | -0.04 | -0.16 | -0.25 | |
| 43A | U | CR | 0.53 | 0.63 | | | | | |
| 43B | U | CR | 0.59 | 0.67 | | | | | |
| 44 | C | MC | 0.62 | 0.57 | 0.57 | -0.29 | -0.28 | -0.19 | |
| 45 | U | MC | 0.66 | 0.50 | -0.26 | 0.50 | -0.22 | -0.19 | |
| 46 | U | MC | 0.72 | 0.48 | -0.15 | 0.48 | -0.30 | -0.20 | |
| 47 | C | MC | 0.61 | 0.54 | -0.21 | -0.31 | 0.54 | -0.20 | |
| 48 | C | MC | 0.62 | 0.49 | -0.15 | -0.23 | -0.28 | 0.49 | |
| 49 | U | MC | 0.68 | 0.55 | -0.31 | -0.22 | -0.23 | 0.55 | |
| 50 | C | MC | 0.34 | 0.37 | -0.17 | -0.18 | 0.37 | 0.00 | |
| 51 | U | MC | 0.71 | 0.46 | -0.19 | -0.22 | -0.25 | 0.46 | |
| 52 | U | MC | 0.28 | 0.38 | -0.24 | -0.11 | 0.38 | -0.04 | |
| 53A | U | CR | 0.66 | 0.53 | | | | | |
| 53B | U | CR | 0.39 | 0.61 | | | | | |
| 54 | C | SPR | 0.65 | 0.55 | | | | | |
| 55 | U | SPR | 0.34 | 0.55 | | | | | |
| 56 | C | SPR | 0.43 | 0.63 | | | | | |
| 57 | U | SPR | 0.64 | 0.55 | | | | | |
| 58 | C | MC | 0.54 | 0.52 | 0.52 | -0.31 | -0.17 | -0.20 | |
| 59 | C | MC | 0.77 | 0.36 | -0.13 | 0.36 | -0.17 | -0.20 | |
| 60 | C | MC | 0.73 | 0.58 | -0.40 | -0.26 | -0.12 | 0.58 | |

Table A10 (cont.)
Summary Item Statistics – Mathematics Grade 7, Form 2 (Form B, D Operational Items)
N=26,296

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------|-------|--------|--------|--------|--------|--------|
| 61 | C | MC | 0.73 | 0.41 | -0.16 | -0.13 | 0.41 | -0.29 | |
| 62 | C | MC | 0.60 | 0.41 | 0.41 | -0.09 | -0.17 | -0.26 | |
| 63A | U | CR | 0.62 | 0.45 | | | | | |
| 63B | U | CR | 0.57 | 0.63 | | | | | |
| 64 | C | SPR | 0.43 | 0.63 | | | | | |
| 65 | U | SPR | 0.51 | 0.57 | | | | | |
| 66 | U | SPR | 0.48 | 0.44 | | | | | |
| 67 | U | SPR | 0.51 | 0.56 | | | | | |
| 68A | U | CR | 0.44 | 0.55 | | | | | |
| 68B | U | CR | 0.22 | 0.54 | | | | | |
| 69 | C | MC | 0.65 | 0.52 | 0.52 | -0.20 | -0.23 | -0.26 | |
| 70 | C | MC | 0.42 | 0.39 | -0.15 | -0.22 | -0.05 | 0.39 | |
| 71 | C | MC | 0.50 | 0.62 | 0.62 | -0.39 | -0.18 | -0.16 | |
| 72 | C | MC | 0.58 | 0.42 | -0.23 | 0.42 | -0.18 | -0.07 | |
| 73 | U | MC | 0.45 | 0.36 | -0.18 | -0.08 | 0.36 | -0.09 | |
| 74 | C | MC | 0.42 | 0.49 | -0.09 | -0.32 | -0.14 | 0.49 | |
| 75 | U | MC | 0.73 | 0.42 | -0.18 | -0.19 | 0.42 | -0.19 | |
| 76A | U | CR | 0.25 | 0.55 | | | | | |
| 76B | U | CR | 0.36 | 0.63 | | | | | |
| 77 | C | SPR | 0.23 | 0.44 | | | | | |
| 78 | C | SPR | 0.29 | 0.56 | | | | | |
| 79 | U | SPR | 0.32 | 0.56 | | | | | |
| 80 | U | SPR | 0.32 | 0.65 | | | | | |
| 81A | C | CR | 0.48 | 0.59 | | | | | |
| 81B | C | CR | 0.54 | 0.72 | | | | | |

Table A11
Summary Item Statistics – Mathematics Grade 8, Form 1 (Form A, C, E Operational Items)
N=40,707

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------------|-------|-------------|--------|-------------|-------------|--------|
| 2 | C | MC | 0.60 | 0.40 | 0.40 | -0.22 | -0.17 | -0.12 | -0.07 |
| 3 | C | MC | 0.34 | 0.42 | -0.05 | 0.42 | -0.17 | -0.15 | -0.13 |
| 6 | C | MC | 0.66 | 0.45 | -0.11 | -0.24 | 0.45 | -0.24 | |
| 7 | C | MC | 0.64 | 0.43 | -0.20 | -0.14 | 0.43 | -0.25 | |
| 13 | C | MC | 0.90 | 0.27 | -0.11 | -0.14 | -0.12 | 0.27 | |
| 16 | C | MC | 0.88 | 0.40 | -0.23 | -0.22 | 0.40 | -0.13 | |
| 20 | C | MC | 0.44 | 0.44 | -0.24 | -0.12 | 0.44 | -0.19 | |
| 21 | C | MC | 0.75 | 0.37 | -0.22 | -0.18 | 0.37 | -0.11 | |
| 26 | C | MC | 0.41 | 0.26 | -0.11 | 0.26 | -0.16 | 0.01 | |
| 27 | C | MC | 0.61 | 0.51 | -0.21 | -0.27 | 0.51 | -0.20 | |
| 29 | C | MC | 0.56 | 0.32 | 0.32 | -0.09 | -0.17 | -0.13 | |
| 32A | U | CR | 0.43 | 0.68 | | | | | |
| 32B | U | CR | 0.58 | 0.66 | | | | | |
| 33 | C | MC | 0.52 | 0.42 | 0.42 | -0.13 | -0.22 | -0.16 | |
| 34 | C | MC | 0.23 | 0.35 | -0.16 | -0.25 | 0.12 | 0.35 | |
| 35 | C | MC | 0.72 | 0.40 | -0.17 | 0.40 | -0.21 | -0.17 | |
| 36 | C | MC | 0.51 | 0.47 | -0.17 | -0.16 | -0.24 | 0.47 | |
| 37 | C | MC | 0.50 | 0.41 | -0.12 | -0.21 | 0.41 | -0.17 | |
| 38 | C | MC | 0.50 | 0.28 | 0.28 | -0.07 | -0.22 | -0.16 | |
| 39 | C | MC | 0.70 | 0.42 | 0.42 | -0.15 | -0.25 | -0.19 | |
| 40A | U | CR | 0.32 | 0.59 | | | | | |
| 40B | U | CR | 0.31 | 0.70 | | | | | |
| 41 | C | MC | 0.53 | 0.40 | -0.25 | -0.16 | 0.40 | -0.10 | |
| 42 | C | MC | 0.74 | 0.38 | -0.22 | -0.15 | -0.14 | 0.38 | |
| 43 | U | MC | 0.65 | 0.58 | -0.16 | -0.46 | 0.58 | -0.10 | |
| 44 | C | MC | 0.30 | 0.47 | 0.08 | -0.10 | -0.38 | 0.47 | |
| 45 | C | MC | 0.59 | 0.45 | -0.18 | -0.19 | -0.22 | 0.45 | |
| 46 | C | MC | 0.39 | 0.51 | -0.08 | -0.30 | -0.19 | 0.51 | |
| 47A | U | CR | 0.34 | 0.65 | | | | | |
| 47B | U | CR | 0.44 | 0.75 | | | | | |
| 48 | U | SPR | 0.16 | 0.54 | | | | | |
| 49 | U | SPR | 0.82 | 0.47 | | | | | |
| 50 | U | SPR | 0.56 | 0.44 | | | | | |
| 51 | U | SPR | 0.20 | 0.40 | | | | | |
| 52 | U | MC | 0.52 | 0.39 | -0.20 | -0.14 | 0.39 | -0.16 | |
| 53 | C | MC | 0.56 | 0.45 | -0.18 | 0.45 | -0.14 | -0.27 | |
| 54 | C | MC | 0.42 | 0.33 | -0.05 | -0.23 | 0.33 | -0.09 | |

Table A11 (cont.)
Summary Item Statistics – Mathematics Grade 8, Form 1 (Form A, C, E Operational Items)
N=40,707

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------------|-------|-------------|--------|-------------|--------|--------|
| 55 | C | MC | 0.60 | 0.41 | -0.14 | 0.41 | -0.23 | -0.16 | |
| 56 | C | MC | 0.45 | 0.42 | 0.42 | -0.15 | -0.31 | -0.03 | |
| 57A | U | CR | 0.21 | 0.58 | | | | | |
| 57B | U | CR | 0.24 | 0.67 | | | | | |
| 58 | U | SPR | 0.27 | 0.55 | | | | | |
| 59 | U | SPR | 0.53 | 0.61 | | | | | |
| 60 | C | SPR | 0.18 | 0.51 | | | | | |
| 61 | C | SPR | 0.54 | 0.44 | | | | | |
| 62A | U | CR | 0.58 | 0.62 | | | | | |
| 62B | U | CR | 0.63 | 0.61 | | | | | |
| 63 | C | MC | 0.43 | 0.33 | -0.12 | -0.14 | 0.33 | -0.09 | |
| 64 | U | MC | 0.32 | 0.34 | -0.22 | 0.34 | 0.08 | -0.22 | |
| 65 | C | MC | 0.27 | 0.42 | 0.00 | -0.29 | -0.08 | 0.42 | |
| 66 | C | MC | 0.66 | 0.42 | -0.17 | 0.42 | -0.24 | -0.13 | |
| 67 | C | MC | 0.55 | 0.49 | -0.22 | -0.25 | -0.14 | 0.49 | |
| 68 | C | MC | 0.56 | 0.39 | 0.39 | -0.16 | -0.17 | -0.14 | |
| 69 | U | MC | 0.13 | 0.25 | 0.02 | -0.13 | -0.05 | 0.25 | |
| 70A | U | CR | 0.12 | 0.37 | | | | | |
| 70B | U | CR | 0.19 | 0.51 | | | | | |
| 71 | C | SPR | 0.40 | 0.60 | | | | | |
| 72 | U | SPR | 0.65 | 0.47 | | | | | |
| 73 | C | SPR | 0.43 | 0.53 | | | | | |
| 74 | U | SPR | 0.43 | 0.66 | | | | | |
| 75A | U | CR | 0.72 | 0.47 | | | | | |
| 75B | U | CR | 0.68 | 0.48 | | | | | |
| 76A | C | CR | 0.28 | 0.65 | | | | | |
| 76B | C | CR | 0.32 | 0.68 | | | | | |

Table A12
Summary Item Statistics – Mathematics Grade 8, Form 2 (Form B, D Operational Items)
N=27,033

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------------|-------|-------------|--------|-------------|-------------|--------|
| 2 | C | MC | 0.60 | 0.41 | 0.41 | -0.23 | -0.19 | -0.13 | -0.08 |
| 3 | C | MC | 0.34 | 0.44 | -0.05 | 0.44 | -0.19 | -0.14 | -0.14 |
| 6 | C | MC | 0.66 | 0.45 | -0.11 | -0.24 | 0.45 | -0.25 | |
| 7 | C | MC | 0.64 | 0.43 | -0.20 | -0.15 | 0.43 | -0.25 | |
| 13 | C | MC | 0.90 | 0.25 | -0.10 | -0.13 | -0.12 | 0.25 | |
| 16 | C | MC | 0.88 | 0.38 | -0.22 | -0.21 | 0.38 | -0.12 | |
| 20 | C | MC | 0.45 | 0.45 | -0.24 | -0.13 | 0.45 | -0.19 | |
| 21 | C | MC | 0.75 | 0.37 | -0.21 | -0.18 | 0.37 | -0.11 | |
| 26 | C | MC | 0.42 | 0.26 | -0.09 | 0.26 | -0.15 | 0.00 | |
| 27 | C | MC | 0.62 | 0.51 | -0.22 | -0.27 | 0.51 | -0.20 | |
| 29 | C | MC | 0.55 | 0.34 | 0.34 | -0.11 | -0.16 | -0.14 | |
| 32A | U | CR | 0.36 | 0.59 | | | | | |
| 32B | U | CR | 0.25 | 0.60 | | | | | |
| 33 | C | MC | 0.52 | 0.42 | 0.42 | -0.14 | -0.22 | -0.17 | |
| 34 | C | MC | 0.24 | 0.34 | -0.16 | -0.24 | 0.10 | 0.34 | |
| 35 | C | MC | 0.73 | 0.40 | -0.17 | 0.40 | -0.21 | -0.18 | |
| 36 | C | MC | 0.56 | 0.41 | -0.26 | -0.16 | 0.41 | -0.12 | |
| 37 | C | MC | 0.50 | 0.31 | 0.31 | -0.11 | -0.22 | -0.15 | |
| 38 | C | MC | 0.71 | 0.41 | 0.41 | -0.16 | -0.24 | -0.18 | |
| 39 | C | MC | 0.51 | 0.49 | -0.17 | -0.17 | -0.26 | 0.49 | |
| 40A | U | CR | 0.33 | 0.59 | | | | | |
| 40B | U | CR | 0.32 | 0.70 | | | | | |
| 41 | C | MC | 0.50 | 0.40 | -0.10 | -0.23 | 0.40 | -0.15 | |
| 42 | C | MC | 0.34 | 0.46 | 0.06 | -0.11 | -0.38 | 0.46 | |
| 43 | C | MC | 0.39 | 0.55 | -0.12 | -0.32 | -0.19 | 0.55 | |
| 44 | C | MC | 0.60 | 0.45 | -0.17 | -0.19 | -0.24 | 0.45 | |
| 45 | U | MC | 0.74 | 0.46 | -0.23 | -0.19 | 0.46 | -0.23 | |
| 46 | C | MC | 0.75 | 0.37 | -0.22 | -0.14 | -0.14 | 0.37 | |
| 47A | U | CR | 0.24 | 0.61 | | | | | |
| 47B | U | CR | 0.27 | 0.71 | | | | | |
| 48 | U | SPR | 0.63 | 0.48 | | | | | |
| 49 | U | SPR | 0.19 | 0.56 | | | | | |
| 50 | U | SPR | 0.37 | 0.67 | | | | | |
| 51 | U | SPR | 0.54 | 0.63 | | | | | |
| 52 | C | MC | 0.42 | 0.34 | -0.12 | -0.17 | 0.34 | -0.09 | |
| 53 | C | MC | 0.61 | 0.41 | -0.14 | 0.41 | -0.24 | -0.17 | |
| 54 | C | MC | 0.57 | 0.45 | -0.18 | 0.45 | -0.13 | -0.28 | |

Table A12 (cont.)
Summary Item Statistics – Mathematics Grade 8, Form 2 (Form B, D Operational Items)
N=27,033

| ITEM | C/U | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 | P_BIS5 |
|------|-----|-----------|-------------|-------|-------------|--------|--------|--------|--------|
| 55 | C | MC | 0.46 | 0.43 | 0.43 | -0.16 | -0.32 | -0.03 | |
| 56 | C | MC | 0.41 | 0.38 | -0.10 | -0.23 | 0.38 | -0.13 | |
| 57A | U | CR | 0.52 | 0.56 | | | | | |
| 57B | U | CR | 0.37 | 0.57 | | | | | |
| 58 | U | SPR | 0.27 | 0.53 | | | | | |
| 59 | C | SPR | 0.19 | 0.53 | | | | | |
| 60 | U | SPR | 0.52 | 0.49 | | | | | |
| 61 | C | SPR | 0.57 | 0.44 | | | | | |
| 62A | U | CR | 0.32 | 0.65 | | | | | |
| 62B | U | CR | 0.45 | 0.66 | | | | | |
| 63 | U | MC | 0.47 | 0.36 | -0.21 | 0.36 | -0.10 | -0.07 | |
| 64 | C | MC | 0.29 | 0.46 | -0.05 | -0.30 | -0.08 | 0.46 | |
| 65 | U | MC | 0.44 | 0.41 | 0.03 | -0.15 | 0.41 | -0.28 | |
| 66 | C | MC | 0.54 | 0.49 | -0.22 | -0.25 | -0.14 | 0.49 | |
| 67 | C | MC | 0.63 | 0.40 | -0.16 | 0.40 | -0.24 | -0.13 | |
| 68 | U | MC | 0.56 | 0.48 | -0.26 | 0.48 | -0.14 | -0.22 | |
| 69 | C | MC | 0.54 | 0.39 | 0.39 | -0.17 | -0.16 | -0.14 | |
| 70A | U | CR | 0.23 | 0.42 | | | | | |
| 70B | U | CR | 0.38 | 0.50 | | | | | |
| 71 | U | SPR | 0.54 | 0.45 | | | | | |
| 72 | C | SPR | 0.41 | 0.62 | | | | | |
| 73 | U | SPR | 0.42 | 0.58 | | | | | |
| 74 | C | SPR | 0.42 | 0.52 | | | | | |
| 75A | U | CR | 0.29 | 0.63 | | | | | |
| 75B | U | CR | 0.43 | 0.64 | | | | | |
| 76A | C | CR | 0.27 | 0.62 | | | | | |
| 76B | C | CR | 0.32 | 0.66 | | | | | |

Table A13
Summary Item Statistics – Mathematics Grade 3 Field Test Items

| FORM | N | ITEM | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 |
|------|------|------|-----------|-------|-------|--------|--------|--------|-------------|
| A | 2860 | 78A | CR | 0.77 | 0.32 | | | | |
| A | 2860 | 78B | CR | 0.47 | 0.36 | | | | |
| A | 2860 | 79 | MC | 0.81 | 0.37 | -0.21 | 0.37 | -0.21 | -0.18 |
| A | 2860 | 80 | MC | 0.88 | 0.44 | 0.44 | -0.24 | -0.29 | -0.19 |
| A | 2860 | 81 | MC | 0.86 | 0.39 | -0.31 | 0.39 | -0.16 | -0.13 |
| A | 2860 | 82 | MC | 0.72 | 0.34 | -0.23 | -0.18 | 0.34 | -0.08 |
| A | 2860 | 83 | MC | 0.60 | 0.41 | -0.18 | -0.09 | -0.29 | 0.41 |
| A | 2860 | 84 | MC | 0.75 | 0.42 | -0.18 | 0.42 | -0.32 | -0.13 |
| A | 2860 | 85 | MC | 0.80 | 0.43 | -0.22 | -0.29 | -0.19 | 0.43 |
| A | 2860 | 86A | CR | 0.87 | 0.27 | | | | |
| A | 2860 | 86B | CR | 0.36 | 0.45 | | | | |
| A | 2860 | 87 | MC | 0.89 | 0.31 | -0.23 | -0.14 | 0.31 | -0.13 |
| A | 2860 | 88 | MC | 0.79 | 0.30 | -0.44 | 0.30 | -0.07 | 0.05 |
| A | 2860 | 89 | MC | 0.83 | 0.41 | -0.23 | -0.19 | 0.41 | -0.23 |
| A | 2860 | 90 | MC | 0.59 | 0.40 | 0.40 | -0.35 | -0.08 | -0.20 |
| A | 2860 | 91 | MC | 0.82 | 0.43 | -0.16 | 0.43 | -0.30 | -0.21 |
| A | 2860 | 92 | MC | 0.58 | 0.48 | -0.30 | -0.14 | -0.23 | 0.48 |
| A | 2860 | 93 | MC | 0.50 | 0.25 | 0.25 | -0.18 | -0.22 | -0.07 |
| B | 2845 | 78A | CR | 0.50 | 0.37 | | | | |
| B | 2845 | 78B | CR | 0.40 | 0.49 | | | | |
| B | 2845 | 79 | MC | 0.46 | 0.38 | -0.01 | 0.38 | -0.10 | -0.42 |
| B | 2845 | 80 | MC | 0.90 | 0.27 | -0.18 | 0.27 | -0.13 | -0.11 |
| B | 2845 | 81 | MC | 0.87 | 0.32 | 0.32 | -0.21 | -0.21 | -0.17 |
| B | 2845 | 82 | MC | 0.91 | 0.40 | -0.25 | -0.21 | -0.23 | 0.40 |
| B | 2845 | 83 | MC | 0.84 | 0.36 | -0.27 | 0.36 | -0.20 | -0.10 |
| B | 2845 | 84 | MC | 0.78 | 0.32 | -0.19 | -0.14 | 0.32 | -0.17 |
| B | 2845 | 85 | MC | 0.77 | 0.23 | -0.16 | 0.23 | -0.11 | -0.09 |
| B | 2845 | 86A | CR | 0.60 | 0.41 | | | | |
| B | 2845 | 86B | CR | 0.58 | 0.53 | | | | |
| B | 2845 | 87 | MC | 0.73 | 0.30 | 0.30 | -0.30 | -0.15 | -0.08 |
| B | 2845 | 88 | MC | 0.92 | 0.45 | -0.25 | -0.25 | 0.45 | -0.26 |
| B | 2845 | 89 | MC | 0.76 | 0.30 | -0.24 | -0.12 | -0.13 | 0.30 |
| B | 2845 | 90 | MC | 0.80 | 0.28 | -0.25 | 0.28 | -0.14 | -0.07 |
| B | 2845 | 91 | MC | 0.52 | 0.30 | -0.13 | 0.30 | -0.01 | -0.23 |
| B | 2845 | 92 | MC | 0.77 | 0.36 | -0.12 | -0.25 | 0.36 | -0.17 |
| B | 2845 | 93 | MC | 0.68 | 0.46 | -0.17 | -0.32 | -0.16 | 0.46 |
| C | 2818 | 78A | CR | 0.45 | 0.41 | | | | |

Table A13 (cont.)
Summary Item Statistics – Mathematics Grade 3 Field Test Items

| FORM | N | ITEM | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 |
|------|------|------|-----------|-------------|-------------|--------|-------------|-------------|--------|
| C | 2818 | 78B | CR | 0.30 | 0.44 | | | | |
| C | 2818 | 79 | MC | 0.96 | 0.34 | -0.14 | 0.34 | -0.17 | -0.25 |
| C | 2818 | 80 | MC | 0.68 | 0.29 | 0.29 | -0.02 | -0.20 | -0.26 |
| C | 2818 | 81 | MC | 0.79 | 0.26 | -0.07 | -0.24 | -0.12 | 0.26 |
| C | 2818 | 82 | MC | 0.96 | 0.32 | 0.32 | -0.20 | -0.19 | -0.13 |
| C | 2818 | 83 | MC | 0.57 | 0.50 | -0.26 | -0.33 | 0.50 | -0.07 |
| C | 2818 | 84 | MC | 0.33 | 0.25 | -0.22 | 0.05 | -0.14 | 0.25 |
| C | 2818 | 85 | MC | 0.59 | 0.21 | -0.25 | 0.21 | -0.02 | -0.02 |
| C | 2818 | 86A | CR | 0.61 | 0.41 | | | | |
| C | 2818 | 86B | CR | 0.45 | 0.36 | | | | |
| C | 2818 | 87 | MC | 0.42 | 0.21 | -0.14 | 0.21 | -0.15 | -0.04 |
| C | 2818 | 88 | MC | 0.87 | 0.30 | -0.10 | -0.16 | 0.30 | -0.21 |
| C | 2818 | 89 | MC | 0.62 | 0.52 | -0.38 | -0.24 | 0.52 | -0.11 |
| C | 2818 | 90 | MC | 0.42 | 0.25 | -0.20 | 0.25 | -0.06 | -0.03 |
| C | 2818 | 91 | MC | 0.88 | 0.44 | -0.28 | -0.25 | -0.20 | 0.44 |
| C | 2818 | 92 | MC | 0.72 | 0.53 | -0.25 | -0.15 | 0.53 | -0.39 |
| C | 2818 | 93 | MC | 0.70 | 0.39 | 0.39 | -0.22 | -0.17 | -0.20 |
| D | 2754 | 78A | CR | 0.76 | 0.40 | | | | |
| D | 2754 | 78B | CR | 0.47 | 0.41 | | | | |
| D | 2754 | 79 | MC | 0.92 | 0.39 | -0.29 | 0.39 | -0.17 | -0.19 |
| D | 2754 | 80 | MC | 0.50 | 0.30 | -0.24 | -0.14 | -0.09 | 0.30 |
| D | 2754 | 81 | MC | 0.42 | 0.31 | 0.31 | -0.17 | -0.16 | -0.05 |
| D | 2754 | 82 | MC | 0.92 | 0.37 | -0.21 | 0.37 | -0.17 | -0.23 |
| D | 2754 | 83 | MC | 0.71 | 0.36 | -0.26 | -0.18 | 0.36 | -0.16 |
| D | 2754 | 84 | MC | 0.92 | 0.25 | 0.25 | -0.21 | -0.11 | -0.08 |
| D | 2754 | 85 | MC | 0.51 | 0.37 | -0.04 | -0.33 | -0.14 | 0.37 |
| D | 2754 | 87 | MC | 0.73 | 0.46 | -0.21 | 0.46 | -0.29 | -0.22 |
| D | 2754 | 88 | MC | 0.49 | 0.26 | -0.08 | -0.25 | 0.02 | 0.26 |
| D | 2754 | 89 | MC | 0.77 | 0.38 | -0.28 | -0.27 | -0.11 | 0.38 |
| D | 2754 | 90 | MC | 0.94 | 0.27 | -0.07 | 0.27 | -0.19 | -0.18 |
| D | 2754 | 91 | MC | 0.49 | 0.21 | -0.14 | 0.21 | -0.17 | -0.11 |
| D | 2754 | 92 | MC | 0.69 | 0.27 | -0.05 | 0.27 | -0.27 | -0.21 |
| D | 2754 | 93 | MC | 0.78 | 0.32 | 0.32 | -0.22 | -0.14 | -0.23 |
| E | 2733 | 78A | CR | 0.32 | 0.27 | | | | |
| E | 2733 | 78B | CR | 0.38 | 0.34 | | | | |
| E | 2733 | 79 | MC | 0.74 | 0.36 | -0.22 | 0.36 | -0.19 | -0.23 |
| E | 2733 | 80 | MC | 0.28 | 0.06 | -0.17 | 0.17 | 0.06 | -0.16 |

Table A13 (cont.)
Summary Item Statistics – Mathematics Grade 3 Field Test Items

| FORM | N | ITEM | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 |
|------|------|------|-----------|-------|-------------|--------|-------------|--------|-------------|
| E | 2733 | 81 | MC | 0.92 | 0.31 | -0.24 | 0.31 | -0.13 | -0.15 |
| E | 2733 | 82 | MC | 0.52 | 0.24 | 0.24 | -0.22 | -0.17 | 0.04 |
| E | 2733 | 83 | MC | 0.60 | 0.43 | -0.23 | -0.22 | -0.17 | 0.43 |
| E | 2733 | 84 | MC | 0.60 | 0.21 | -0.26 | 0.06 | -0.13 | 0.21 |
| E | 2733 | 85 | MC | 0.83 | 0.37 | -0.14 | -0.24 | 0.37 | -0.27 |
| E | 2733 | 86A | CR | 0.32 | 0.41 | | | | |
| E | 2733 | 86B | CR | 0.25 | 0.44 | | | | |
| E | 2733 | 87 | MC | 0.83 | 0.41 | -0.22 | -0.29 | -0.17 | 0.41 |
| E | 2733 | 88 | MC | 0.80 | 0.42 | -0.26 | 0.42 | -0.15 | -0.27 |
| E | 2733 | 89 | MC | 0.63 | 0.40 | 0.40 | -0.18 | -0.12 | -0.28 |
| E | 2733 | 90 | MC | 0.84 | 0.43 | -0.28 | 0.43 | -0.21 | -0.24 |
| E | 2733 | 91 | MC | 0.88 | 0.11 | -0.06 | 0.11 | -0.01 | -0.08 |
| E | 2733 | 92 | MC | 0.85 | 0.23 | -0.14 | -0.06 | 0.23 | -0.16 |
| E | 2733 | 93 | MC | 0.76 | 0.47 | 0.47 | -0.19 | -0.22 | -0.31 |

Table A14
Summary Item Statistics – Mathematics Grade 4 Field Test Items

| FORM | N | ITEM | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 |
|------|------|------|-----------|-------------|-------|--------|-------------|--------|--------|
| A | 2940 | 80A | CR | 0.20 | 0.31 | | | | |
| A | 2940 | 80B | CR | 0.41 | 0.47 | | | | |
| A | 2940 | 81 | MC | 0.74 | 0.48 | -0.24 | -0.29 | 0.48 | -0.19 |
| A | 2940 | 82 | MC | 0.63 | 0.59 | -0.43 | 0.59 | -0.23 | -0.20 |
| A | 2940 | 83 | MC | 0.75 | 0.28 | 0.28 | -0.24 | -0.12 | -0.04 |
| A | 2940 | 84 | MC | 0.65 | 0.37 | -0.30 | -0.12 | -0.23 | 0.37 |
| A | 2940 | 85 | MC | 0.72 | 0.32 | -0.19 | -0.19 | -0.12 | 0.32 |
| A | 2940 | 86A | CR | 0.22 | 0.41 | | | | |
| A | 2940 | 86B | CR | 0.48 | 0.64 | | | | |
| A | 2940 | 87 | MC | 0.53 | 0.37 | -0.15 | 0.37 | -0.11 | -0.30 |
| A | 2940 | 88 | MC | 0.84 | 0.39 | -0.20 | -0.19 | -0.25 | 0.39 |
| A | 2940 | 89 | MC | 0.61 | 0.39 | -0.25 | 0.39 | -0.26 | -0.06 |
| A | 2940 | 90 | MC | 0.85 | 0.43 | -0.21 | -0.27 | 0.43 | -0.21 |
| A | 2940 | 91 | MC | 0.84 | 0.40 | -0.16 | -0.27 | 0.40 | -0.20 |
| A | 2940 | 92 | MC | 0.70 | 0.53 | -0.22 | 0.53 | -0.23 | -0.34 |
| A | 2940 | 93 | MC | 0.77 | 0.41 | -0.21 | -0.19 | -0.23 | 0.41 |
| A | 2940 | 94 | MC | 0.51 | 0.44 | -0.41 | -0.03 | 0.44 | -0.17 |
| A | 2940 | 95 | MC | 0.74 | 0.42 | -0.14 | -0.19 | 0.42 | -0.29 |
| B | 2875 | 80A | CR | 0.45 | 0.52 | | | | |
| B | 2875 | 80B | CR | 0.49 | 0.61 | | | | |
| B | 2875 | 81 | MC | 0.88 | 0.28 | -0.19 | 0.28 | -0.09 | -0.19 |
| B | 2875 | 82 | MC | 0.63 | 0.32 | 0.32 | -0.25 | -0.16 | -0.09 |
| B | 2875 | 83 | MC | 0.69 | 0.28 | -0.14 | -0.13 | -0.15 | 0.28 |
| B | 2875 | 84 | MC | 0.71 | 0.33 | 0.33 | -0.28 | -0.08 | -0.10 |
| B | 2875 | 85 | MC | 0.75 | 0.33 | -0.15 | -0.16 | 0.33 | -0.19 |
| B | 2875 | 86A | CR | 0.72 | 0.51 | | | | |
| B | 2875 | 86B | CR | 0.65 | 0.58 | | | | |
| B | 2875 | 87 | MC | 0.65 | 0.30 | -0.08 | -0.12 | 0.30 | -0.22 |
| B | 2875 | 88 | MC | 0.55 | 0.24 | -0.17 | -0.22 | -0.01 | 0.24 |
| B | 2875 | 89 | MC | 0.78 | 0.34 | -0.24 | -0.17 | -0.13 | 0.34 |
| B | 2875 | 90 | MC | 0.71 | 0.30 | -0.25 | 0.30 | -0.21 | -0.05 |
| B | 2875 | 91 | MC | 0.36 | 0.23 | 0.23 | 0.09 | -0.14 | -0.26 |
| B | 2875 | 92 | MC | 0.54 | 0.44 | -0.32 | 0.44 | -0.10 | -0.12 |
| B | 2875 | 93 | MC | 0.87 | 0.39 | -0.20 | -0.24 | 0.39 | -0.18 |
| B | 2875 | 94 | MC | 0.64 | 0.36 | -0.14 | -0.19 | -0.21 | 0.36 |
| B | 2875 | 95 | MC | 0.71 | 0.52 | 0.52 | -0.22 | -0.25 | -0.31 |
| C | 2858 | 80A | CR | 0.79 | 0.35 | | | | |

Table A14 (cont.)
Summary Item Statistics – Mathematics Grade 4 Field Test Items

| FORM | N | ITEM | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 |
|------|------|------|-----------|-------|-------|--------|--------|--------|-------------|
| C | 2858 | 80B | CR | 0.39 | 0.41 | | | | |
| C | 2858 | 81 | MC | 0.70 | 0.39 | -0.29 | -0.14 | 0.39 | -0.18 |
| C | 2858 | 84 | MC | 0.96 | 0.23 | -0.11 | 0.23 | -0.11 | -0.13 |
| C | 2858 | 85 | MC | 0.58 | 0.25 | 0.25 | -0.11 | -0.14 | -0.11 |
| C | 2858 | 86A | CR | 0.94 | 0.24 | | | | |
| C | 2858 | 86B | CR | 0.74 | 0.33 | | | | |
| C | 2858 | 87 | MC | 0.64 | 0.42 | -0.17 | -0.32 | 0.42 | -0.10 |
| C | 2858 | 88 | MC | 0.57 | 0.41 | -0.23 | 0.41 | -0.22 | -0.12 |
| C | 2858 | 89 | MC | 0.84 | 0.44 | 0.44 | -0.23 | -0.19 | -0.27 |
| C | 2858 | 90 | MC | 0.62 | 0.48 | 0.48 | -0.17 | -0.21 | -0.29 |
| C | 2858 | 91 | MC | 0.75 | 0.47 | -0.26 | -0.21 | -0.23 | 0.47 |
| C | 2858 | 92 | MC | 0.53 | 0.35 | -0.12 | 0.35 | -0.19 | -0.27 |
| C | 2858 | 93 | MC | 0.78 | 0.33 | -0.08 | -0.15 | 0.33 | -0.27 |
| C | 2858 | 94 | MC | 0.92 | 0.32 | 0.32 | -0.14 | -0.18 | -0.15 |
| C | 2858 | 95 | MC | 0.54 | 0.46 | -0.19 | -0.16 | 0.46 | -0.26 |
| D | 2847 | 80A | CR | 0.38 | 0.50 | | | | |
| D | 2847 | 80B | CR | 0.30 | 0.52 | | | | |
| D | 2847 | 81 | MC | 0.78 | 0.37 | 0.37 | -0.23 | -0.20 | -0.16 |
| D | 2847 | 82 | MC | 0.96 | 0.26 | 0.26 | -0.15 | -0.14 | -0.14 |
| D | 2847 | 83 | MC | 0.50 | 0.23 | -0.17 | -0.16 | 0.23 | 0.02 |
| D | 2847 | 84 | MC | 0.82 | 0.37 | -0.19 | 0.37 | -0.21 | -0.21 |
| D | 2847 | 85 | MC | 0.64 | 0.39 | -0.20 | -0.24 | -0.13 | 0.39 |
| D | 2847 | 86A | CR | 0.87 | 0.40 | | | | |
| D | 2847 | 86B | CR | 0.55 | 0.46 | | | | |
| D | 2847 | 87 | MC | 0.59 | 0.44 | -0.24 | 0.44 | -0.18 | -0.20 |
| D | 2847 | 88 | MC | 0.83 | 0.29 | 0.29 | -0.12 | -0.21 | -0.14 |
| D | 2847 | 89 | MC | 0.62 | 0.45 | -0.33 | -0.14 | -0.16 | 0.45 |
| D | 2847 | 90 | MC | 0.67 | 0.45 | -0.23 | -0.23 | 0.45 | -0.22 |
| D | 2847 | 91 | MC | 0.93 | 0.32 | -0.19 | -0.14 | 0.32 | -0.17 |
| D | 2847 | 92 | MC | 0.75 | 0.30 | 0.30 | -0.14 | -0.14 | -0.25 |
| D | 2847 | 93 | MC | 0.59 | 0.42 | -0.16 | 0.42 | -0.25 | -0.16 |
| D | 2847 | 94 | MC | 0.74 | 0.46 | -0.19 | 0.46 | -0.26 | -0.24 |
| D | 2847 | 95 | MC | 0.67 | 0.37 | -0.19 | -0.18 | -0.16 | 0.37 |
| E | 2799 | 80A | CR | 0.47 | 0.42 | | | | |
| E | 2799 | 80B | CR | 0.51 | 0.52 | | | | |
| E | 2799 | 81 | MC | 0.81 | 0.27 | -0.15 | -0.18 | -0.10 | 0.27 |
| E | 2799 | 82 | MC | 0.76 | 0.38 | 0.38 | -0.22 | -0.20 | -0.18 |

Table A14 (cont.)
Summary Item Statistics – Mathematics Grade 4 Field Test Items

| FORM | N | ITEM | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 |
|-------------|----------|-------------|------------------|--------------|--------------|---------------|---------------|---------------|---------------|
| E | 2799 | 83 | MC | 0.97 | 0.21 | -0.11 | 0.21 | -0.11 | -0.10 |
| E | 2799 | 84 | MC | 0.57 | 0.49 | -0.38 | -0.17 | -0.12 | 0.49 |
| E | 2799 | 85 | MC | 0.86 | 0.28 | -0.18 | -0.15 | 0.28 | -0.12 |
| E | 2799 | 86A | CR | 0.41 | 0.42 | | | | |
| E | 2799 | 86B | CR | 0.46 | 0.46 | | | | |
| E | 2799 | 87 | MC | 0.88 | 0.30 | -0.11 | -0.21 | 0.30 | -0.19 |
| E | 2799 | 88 | MC | 0.55 | 0.39 | -0.23 | 0.39 | -0.19 | -0.13 |
| E | 2799 | 89 | MC | 0.47 | 0.45 | -0.37 | -0.14 | -0.14 | 0.45 |
| E | 2799 | 90 | MC | 0.55 | 0.51 | 0.51 | -0.19 | -0.24 | -0.33 |
| E | 2799 | 91 | MC | 0.68 | 0.42 | -0.22 | -0.27 | 0.42 | -0.12 |
| E | 2799 | 92 | MC | 0.89 | 0.27 | -0.10 | -0.13 | -0.18 | 0.27 |
| E | 2799 | 93 | MC | 0.74 | 0.29 | -0.17 | -0.16 | -0.16 | 0.29 |
| E | 2799 | 94 | MC | 0.75 | 0.34 | -0.12 | 0.34 | -0.14 | -0.27 |
| E | 2799 | 95 | MC | 0.80 | 0.34 | 0.34 | -0.16 | -0.19 | -0.19 |

Table A15
Summary Item Statistics – Mathematics Grade 5 Field Test Items

| FORM | N | ITEM | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 |
|------|------|------|-----------|-------------|-------|-------------|-------------|-------------|-------------|
| A | 2975 | 77A | CR | 0.61 | 0.54 | | | | |
| A | 2975 | 77B | CR | 0.45 | 0.52 | | | | |
| A | 2975 | 78 | MC | 0.47 | 0.41 | 0.09 | 0.41 | -0.07 | -0.51 |
| A | 2975 | 79 | MC | 0.85 | 0.34 | -0.12 | -0.26 | 0.34 | -0.17 |
| A | 2975 | 80 | MC | 0.68 | 0.55 | -0.39 | -0.22 | -0.20 | 0.55 |
| A | 2975 | 81 | MC | 0.76 | 0.41 | -0.20 | -0.18 | 0.41 | -0.26 |
| A | 2975 | 82 | MC | 0.70 | 0.43 | -0.16 | 0.43 | -0.23 | -0.28 |
| A | 2975 | 83 | MC | 0.64 | 0.41 | -0.24 | -0.22 | 0.41 | -0.16 |
| A | 2975 | 84 | MC | 0.25 | 0.16 | 0.16 | -0.31 | -0.10 | 0.28 |
| A | 2975 | 85 | MC | 0.39 | 0.24 | -0.20 | -0.04 | 0.24 | -0.04 |
| A | 2975 | 86 | MC | 0.61 | 0.41 | 0.41 | -0.21 | -0.18 | -0.19 |
| A | 2975 | 87A | CR | 0.40 | 0.61 | | | | |
| A | 2975 | 87B | CR | 0.37 | 0.62 | | | | |
| A | 2975 | 88 | MC | 0.62 | 0.42 | -0.27 | -0.18 | -0.15 | 0.42 |
| A | 2975 | 89 | MC | 0.49 | 0.51 | 0.51 | -0.14 | -0.26 | -0.29 |
| A | 2975 | 90 | MC | 0.85 | 0.32 | -0.17 | 0.32 | -0.14 | -0.21 |
| A | 2975 | 91 | MC | 0.74 | 0.41 | -0.23 | -0.14 | -0.25 | 0.41 |
| A | 2975 | 92 | MC | 0.35 | 0.32 | -0.26 | 0.01 | 0.32 | -0.16 |
| A | 2975 | 93 | MC | 0.41 | 0.25 | 0.25 | -0.13 | -0.07 | -0.09 |
| A | 2975 | 94 | MC | 0.51 | 0.34 | -0.20 | -0.04 | 0.34 | -0.21 |
| B | 2949 | 78 | MC | 0.59 | 0.49 | -0.19 | -0.10 | 0.49 | -0.38 |
| B | 2949 | 79 | MC | 0.89 | 0.36 | -0.20 | -0.24 | 0.36 | -0.15 |
| B | 2949 | 80 | MC | 0.59 | 0.27 | -0.07 | -0.16 | -0.15 | 0.27 |
| B | 2949 | 81 | MC | 0.53 | 0.38 | -0.16 | 0.38 | -0.16 | -0.22 |
| B | 2949 | 82 | MC | 0.66 | 0.47 | -0.33 | 0.47 | -0.18 | -0.15 |
| B | 2949 | 83 | MC | 0.38 | 0.17 | -0.09 | -0.16 | 0.17 | 0.01 |
| B | 2949 | 84 | MC | 0.78 | 0.42 | -0.19 | -0.25 | -0.25 | 0.42 |
| B | 2949 | 85 | MC | 0.76 | 0.31 | -0.17 | -0.13 | 0.31 | -0.18 |
| B | 2949 | 86 | MC | 0.33 | 0.28 | 0.28 | -0.07 | -0.02 | -0.26 |
| B | 2949 | 87A | CR | 0.35 | 0.49 | | | | |
| B | 2949 | 87B | CR | 0.40 | 0.45 | | | | |
| B | 2949 | 88 | MC | 0.43 | 0.17 | -0.26 | -0.17 | 0.03 | 0.17 |
| B | 2949 | 89 | MC | 0.54 | 0.33 | -0.18 | -0.16 | 0.33 | -0.12 |
| B | 2949 | 90 | MC | 0.73 | 0.41 | -0.20 | -0.20 | 0.41 | -0.25 |
| B | 2949 | 91 | MC | 0.85 | 0.27 | -0.18 | 0.27 | -0.14 | -0.12 |
| B | 2949 | 92 | MC | 0.71 | 0.26 | -0.06 | -0.18 | -0.21 | 0.26 |
| B | 2949 | 93 | MC | 0.63 | 0.37 | -0.22 | 0.37 | -0.19 | -0.16 |

Table A15 (cont.)
Summary Item Statistics – Mathematics Grade 5 Field Test Items

| FORM | N | ITEM | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 |
|------|------|------|-----------|-------|-------|--------|-------------|--------|--------|
| B | 2949 | 94 | MC | 0.37 | 0.26 | -0.16 | -0.04 | -0.15 | 0.26 |
| C | 2909 | 77A | CR | 0.78 | 0.47 | | | | |
| C | 2909 | 77B | CR | 0.47 | 0.49 | | | | |
| C | 2909 | 78 | MC | 0.60 | 0.46 | -0.38 | -0.18 | -0.07 | 0.46 |
| C | 2909 | 79 | MC | 0.79 | 0.34 | -0.28 | -0.09 | -0.15 | 0.34 |
| C | 2909 | 80 | MC | 0.86 | 0.36 | -0.17 | -0.19 | 0.36 | -0.22 |
| C | 2909 | 81 | MC | 0.80 | 0.35 | 0.35 | -0.21 | -0.18 | -0.16 |
| C | 2909 | 82 | MC | 0.72 | 0.25 | 0.25 | -0.15 | -0.09 | -0.14 |
| C | 2909 | 83 | MC | 0.54 | 0.50 | -0.21 | -0.22 | -0.23 | 0.50 |
| C | 2909 | 84 | MC | 0.79 | 0.27 | -0.11 | 0.27 | -0.16 | -0.17 |
| C | 2909 | 85 | MC | 0.75 | 0.38 | 0.38 | -0.23 | -0.18 | -0.15 |
| C | 2909 | 86 | MC | 0.53 | 0.39 | -0.23 | -0.18 | 0.39 | -0.10 |
| C | 2909 | 87A | CR | 0.30 | 0.52 | | | | |
| C | 2909 | 87B | CR | 0.39 | 0.59 | | | | |
| C | 2909 | 88 | MC | 0.78 | 0.43 | -0.26 | -0.23 | 0.43 | -0.17 |
| C | 2909 | 89 | MC | 0.58 | 0.36 | 0.36 | -0.16 | -0.20 | -0.15 |
| C | 2909 | 90 | MC | 0.45 | 0.42 | -0.11 | 0.42 | -0.15 | -0.25 |
| C | 2909 | 91 | MC | 0.48 | 0.30 | -0.01 | -0.16 | -0.23 | 0.30 |
| C | 2909 | 92 | MC | 0.51 | 0.45 | -0.10 | 0.45 | -0.16 | -0.31 |
| C | 2909 | 93 | MC | 0.46 | 0.40 | -0.24 | -0.21 | 0.40 | -0.04 |
| C | 2909 | 94 | MC | 0.60 | 0.32 | -0.17 | -0.20 | 0.32 | -0.12 |
| D | 2873 | 77A | CR | 0.69 | 0.40 | | | | |
| D | 2873 | 77B | CR | 0.42 | 0.53 | | | | |
| D | 2873 | 78 | MC | 0.76 | 0.25 | -0.04 | 0.25 | -0.20 | -0.18 |
| D | 2873 | 79 | MC | 0.66 | 0.45 | -0.15 | -0.29 | -0.22 | 0.45 |
| D | 2873 | 80 | MC | 0.77 | 0.51 | -0.33 | -0.28 | -0.17 | 0.51 |
| D | 2873 | 81 | MC | 0.55 | 0.37 | -0.21 | -0.22 | 0.37 | -0.09 |
| D | 2873 | 82 | MC | 0.69 | 0.45 | -0.19 | 0.45 | -0.32 | -0.20 |
| D | 2873 | 83A | CR | 0.27 | 0.42 | | | | |
| D | 2873 | 83B | CR | 0.35 | 0.41 | | | | |
| D | 2873 | 84 | MC | 0.67 | 0.31 | -0.21 | -0.12 | 0.31 | -0.13 |
| D | 2873 | 85 | MC | 0.54 | 0.35 | 0.35 | -0.26 | -0.17 | -0.09 |
| D | 2873 | 86 | MC | 0.41 | 0.19 | -0.08 | -0.08 | -0.08 | 0.19 |
| D | 2873 | 87 | MC | 0.66 | 0.45 | -0.27 | -0.19 | -0.20 | 0.45 |
| D | 2873 | 88 | MC | 0.51 | 0.24 | -0.24 | 0.12 | -0.19 | 0.24 |
| D | 2873 | 89 | MC | 0.58 | 0.29 | -0.14 | 0.29 | -0.10 | -0.18 |

Table A15 (cont.)
Summary Item Statistics – Mathematics Grade 5 Field Test Items

| FORM | N | ITEM | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 |
|-------------|----------|-------------|------------------|--------------|--------------|---------------|---------------|---------------|---------------|
| D | 2873 | 90 | MC | 0.83 | 0.26 | -0.17 | 0.26 | -0.13 | -0.16 |
| E | 2848 | 78 | MC | 0.49 | 0.34 | -0.01 | -0.17 | 0.34 | -0.26 |
| E | 2848 | 79 | MC | 0.91 | 0.26 | -0.13 | -0.16 | -0.12 | 0.26 |
| E | 2848 | 80 | MC | 0.79 | 0.39 | -0.23 | -0.21 | -0.16 | 0.39 |
| E | 2848 | 81 | MC | 0.43 | 0.36 | -0.21 | 0.36 | -0.17 | -0.10 |
| E | 2848 | 82 | MC | 0.60 | 0.35 | -0.15 | -0.24 | 0.35 | -0.15 |
| E | 2848 | 83A | CR | 0.75 | 0.38 | | | | |
| E | 2848 | 83B | CR | 0.83 | 0.38 | | | | |
| E | 2848 | 84 | MC | 0.55 | 0.49 | -0.24 | -0.28 | -0.13 | 0.49 |
| E | 2848 | 85 | MC | 0.73 | 0.37 | -0.16 | 0.37 | -0.24 | -0.17 |
| E | 2848 | 86 | MC | 0.83 | 0.30 | -0.15 | -0.17 | 0.30 | -0.16 |
| E | 2848 | 87 | MC | 0.57 | 0.38 | -0.19 | 0.38 | -0.25 | -0.10 |
| E | 2848 | 88 | MC | 0.85 | 0.34 | -0.24 | -0.15 | 0.34 | -0.14 |
| E | 2848 | 89 | MC | 0.81 | 0.39 | 0.39 | -0.21 | -0.23 | -0.17 |
| E | 2848 | 90 | MC | 0.92 | 0.22 | -0.09 | -0.12 | -0.12 | 0.22 |

Table A16
Summary Item Statistics – Mathematics Grade 6 Field Test Items

| FORM | N | ITEM | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 |
|------|------|------|-----------|-------------|-------------|--------|--------|--------|-------------|
| A | 3289 | 82A | CR | 0.16 | 0.37 | | | | |
| A | 3289 | 82B | CR | 0.30 | 0.47 | | | | |
| A | 3289 | 83 | MC | 0.56 | 0.44 | -0.33 | -0.23 | 0.44 | -0.02 |
| A | 3289 | 84 | MC | 0.39 | 0.42 | -0.10 | -0.26 | -0.12 | 0.42 |
| A | 3289 | 85 | MC | 0.57 | 0.46 | 0.46 | -0.33 | -0.14 | -0.12 |
| A | 3289 | 86 | MC | 0.76 | 0.36 | -0.23 | -0.14 | 0.36 | -0.13 |
| A | 3289 | 87A | CR | 0.33 | 0.58 | | | | |
| A | 3289 | 87B | CR | 0.48 | 0.61 | | | | |
| A | 3289 | 88 | MC | 0.86 | 0.44 | -0.20 | -0.28 | -0.18 | 0.44 |
| A | 3289 | 89 | MC | 0.54 | 0.34 | 0.34 | -0.16 | -0.19 | -0.09 |
| A | 3289 | 90 | MC | 0.50 | 0.51 | -0.31 | -0.22 | -0.13 | 0.51 |
| A | 3289 | 91 | MC | 0.31 | 0.34 | -0.24 | -0.16 | 0.34 | 0.04 |
| A | 3289 | 92 | MC | 0.55 | 0.47 | -0.32 | -0.19 | -0.11 | 0.47 |
| A | 3289 | 93A | CR | 0.56 | 0.41 | | | | |
| A | 3289 | 93B | CR | 0.40 | 0.48 | | | | |
| B | 3262 | 82A | CR | 0.22 | 0.51 | | | | |
| B | 3262 | 82B | CR | 0.32 | 0.62 | | | | |
| B | 3262 | 83 | MC | 0.29 | 0.12 | 0.00 | -0.06 | -0.17 | 0.12 |
| B | 3262 | 84 | MC | 0.34 | 0.43 | -0.05 | -0.34 | 0.43 | -0.04 |
| B | 3262 | 85 | MC | 0.62 | 0.36 | -0.21 | -0.20 | 0.36 | -0.09 |
| B | 3262 | 86 | MC | 0.50 | 0.37 | 0.37 | -0.14 | -0.11 | -0.23 |
| B | 3262 | 88 | MC | 0.65 | 0.33 | 0.33 | -0.11 | -0.22 | -0.16 |
| B | 3262 | 89 | MC | 0.77 | 0.35 | -0.23 | -0.18 | -0.11 | 0.35 |
| B | 3262 | 90 | MC | 0.55 | 0.38 | -0.08 | -0.29 | 0.38 | -0.07 |
| B | 3262 | 91 | MC | 0.48 | 0.43 | -0.12 | 0.43 | -0.08 | -0.31 |
| B | 3262 | 92 | MC | 0.41 | 0.39 | -0.07 | -0.24 | -0.22 | 0.39 |
| B | 3262 | 93A | CR | 0.40 | 0.45 | | | | |
| B | 3262 | 93B | CR | 0.41 | 0.46 | | | | |
| C | 3242 | 83 | MC | 0.55 | 0.39 | -0.22 | -0.15 | 0.39 | -0.15 |
| C | 3242 | 84 | MC | 0.55 | 0.25 | -0.19 | -0.15 | 0.25 | 0.03 |
| C | 3242 | 85 | MC | 0.66 | 0.51 | -0.18 | -0.21 | -0.35 | 0.51 |
| C | 3242 | 86 | MC | 0.51 | 0.42 | -0.30 | 0.42 | -0.16 | -0.07 |
| C | 3242 | 87 | MC | 0.50 | 0.34 | -0.11 | -0.26 | -0.07 | 0.34 |
| C | 3242 | 88 | MC | 0.70 | 0.39 | 0.39 | -0.15 | -0.25 | -0.20 |
| C | 3242 | 89 | MC | 0.52 | 0.41 | -0.19 | -0.21 | 0.41 | -0.10 |
| C | 3242 | 90A | CR | 0.32 | 0.49 | | | | |
| C | 3242 | 90B | CR | 0.42 | 0.58 | | | | |

Table A16 (cont.)
Summary Item Statistics – Mathematics Grade 6 Field Test Items

| FORM | N | ITEM | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 |
|------|------|------|-----------|-------------|--------------|-------------|--------------|-------------|-------------|
| C | 3242 | 91 | MC | 0.64 | 0.43 | 0.43 | -0.24 | -0.20 | -0.18 |
| C | 3242 | 92 | MC | 0.63 | 0.42 | -0.17 | -0.23 | -0.19 | 0.42 |
| C | 3242 | 93 | MC | 0.16 | 0.08 | 0.27 | -0.26 | -0.27 | 0.08 |
| C | 3242 | 94 | MC | 0.41 | 0.38 | -0.11 | -0.18 | 0.38 | -0.18 |
| C | 3242 | 95 | MC | 0.43 | 0.32 | -0.12 | 0.32 | -0.19 | -0.08 |
| D | 3222 | 82A | CR | 0.64 | 0.57 | | | | |
| D | 3222 | 82B | CR | 0.36 | 0.62 | | | | |
| D | 3222 | 83 | MC | 0.86 | 0.36 | -0.18 | -0.16 | -0.22 | 0.36 |
| D | 3222 | 84 | MC | 0.31 | -0.01 | -0.01 | -0.01 | 0.09 | -0.04 |
| D | 3222 | 85 | MC | 0.66 | 0.47 | -0.27 | 0.47 | -0.24 | -0.14 |
| D | 3222 | 86 | MC | 0.44 | 0.35 | -0.15 | -0.14 | -0.13 | 0.35 |
| D | 3222 | 87 | MC | 0.51 | 0.25 | -0.19 | -0.05 | 0.25 | -0.21 |
| D | 3222 | 88 | MC | 0.39 | 0.23 | -0.10 | 0.23 | 0.07 | -0.26 |
| D | 3222 | 89 | MC | 0.75 | 0.54 | -0.30 | -0.29 | 0.54 | -0.23 |
| D | 3222 | 91 | MC | 0.68 | 0.30 | -0.10 | 0.30 | -0.23 | -0.17 |
| D | 3222 | 92 | MC | 0.45 | 0.41 | -0.19 | 0.41 | -0.18 | -0.13 |
| D | 3222 | 93 | MC | 0.64 | 0.40 | 0.40 | -0.20 | -0.21 | -0.12 |
| D | 3222 | 94 | MC | 0.72 | 0.40 | -0.15 | -0.17 | 0.40 | -0.26 |
| D | 3222 | 95 | MC | 0.73 | 0.43 | -0.11 | 0.43 | -0.24 | -0.28 |
| E | 3219 | 82A | CR | 0.80 | 0.46 | | | | |
| E | 3219 | 82B | CR | 0.50 | 0.61 | | | | |
| E | 3219 | 83 | MC | 0.49 | 0.44 | -0.21 | -0.33 | 0.44 | 0.00 |
| E | 3219 | 84 | MC | 0.36 | 0.27 | -0.10 | 0.27 | -0.04 | -0.18 |
| E | 3219 | 85 | MC | 0.52 | 0.27 | -0.14 | -0.05 | -0.19 | 0.27 |
| E | 3219 | 86 | MC | 0.22 | 0.41 | -0.26 | -0.05 | -0.02 | 0.41 |
| E | 3219 | 87 | MC | 0.44 | 0.26 | -0.11 | -0.15 | 0.26 | -0.04 |
| E | 3219 | 88 | MC | 0.43 | 0.34 | 0.34 | -0.06 | -0.22 | -0.15 |
| E | 3219 | 89 | MC | 0.52 | 0.42 | -0.13 | 0.42 | -0.22 | -0.20 |
| E | 3219 | 90A | CR | 0.30 | 0.53 | | | | |
| E | 3219 | 90B | CR | 0.43 | 0.61 | | | | |
| E | 3219 | 91 | MC | 0.52 | 0.45 | 0.45 | -0.21 | -0.17 | -0.21 |
| E | 3219 | 92 | MC | 0.81 | 0.40 | -0.28 | -0.17 | 0.40 | -0.16 |
| E | 3219 | 93 | MC | 0.74 | 0.39 | -0.13 | 0.39 | -0.29 | -0.14 |
| E | 3219 | 94 | MC | 0.23 | 0.22 | -0.17 | -0.05 | -0.03 | 0.22 |
| E | 3219 | 95 | MC | 0.69 | 0.39 | -0.16 | 0.39 | -0.22 | -0.20 |

Table A17
Summary Item Statistics – Mathematics Grade 7 Field Test Items

| FORM | N | ITEM | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 |
|------|------|------|-----------|-------------|-------|--------|-------------|--------|-------------|
| A | 3505 | 82A | CR | 0.20 | 0.41 | | | | |
| A | 3505 | 82B | CR | 0.28 | 0.46 | | | | |
| A | 3505 | 83 | MC | 0.49 | 0.45 | 0.45 | -0.28 | -0.25 | -0.14 |
| A | 3505 | 84 | MC | 0.49 | 0.60 | -0.35 | -0.17 | 0.60 | -0.28 |
| A | 3505 | 85 | MC | 0.90 | 0.32 | -0.12 | 0.32 | -0.19 | -0.20 |
| A | 3505 | 86 | MC | 0.76 | 0.50 | -0.24 | -0.22 | 0.50 | -0.29 |
| A | 3505 | 87 | MC | 0.34 | 0.45 | -0.27 | 0.45 | -0.08 | -0.13 |
| A | 3505 | 88 | MC | 0.55 | 0.51 | -0.18 | -0.23 | -0.30 | 0.51 |
| A | 3505 | 89 | SPR | 0.23 | 0.48 | | | | |
| A | 3505 | 90 | SPR | 0.45 | 0.65 | | | | |
| A | 3505 | 91A | CR | 0.48 | 0.58 | | | | |
| A | 3505 | 91B | CR | 0.30 | 0.62 | | | | |
| A | 3505 | 92 | MC | 0.82 | 0.48 | -0.18 | -0.41 | 0.48 | -0.06 |
| A | 3505 | 93 | MC | 0.77 | 0.50 | -0.18 | -0.38 | 0.50 | -0.16 |
| A | 3505 | 94 | MC | 0.49 | 0.27 | -0.10 | -0.13 | 0.27 | -0.10 |
| A | 3505 | 95 | SPR | 0.45 | 0.43 | | | | |
| B | 3438 | 82A | CR | 0.62 | 0.36 | | | | |
| B | 3438 | 82B | CR | 0.38 | 0.42 | | | | |
| B | 3438 | 83 | MC | 0.61 | 0.55 | -0.37 | -0.10 | -0.27 | 0.55 |
| B | 3438 | 84 | MC | 0.90 | 0.34 | -0.27 | 0.34 | -0.12 | -0.11 |
| B | 3438 | 85 | MC | 0.41 | 0.19 | -0.08 | 0.02 | 0.19 | -0.16 |
| B | 3438 | 86 | SPR | 0.70 | 0.47 | | | | |
| B | 3438 | 87A | CR | 0.69 | 0.54 | | | | |
| B | 3438 | 87B | CR | 0.53 | 0.63 | | | | |
| B | 3438 | 88 | MC | 0.50 | 0.19 | -0.06 | -0.09 | -0.08 | 0.19 |
| B | 3438 | 89 | MC | 0.78 | 0.43 | 0.43 | -0.29 | -0.21 | -0.12 |
| B | 3438 | 90 | MC | 0.62 | 0.56 | -0.40 | -0.22 | 0.56 | -0.12 |
| B | 3438 | 91A | CR | 0.13 | 0.41 | | | | |
| B | 3438 | 91B | CR | 0.40 | 0.48 | | | | |
| B | 3438 | 92 | SPR | 0.36 | 0.55 | | | | |
| C | 3422 | 82A | CR | 0.54 | 0.42 | | | | |
| C | 3422 | 82B | CR | 0.29 | 0.51 | | | | |
| C | 3422 | 83 | MC | 0.68 | 0.49 | -0.22 | -0.28 | -0.20 | 0.49 |
| C | 3422 | 84 | MC | 0.26 | 0.19 | -0.02 | -0.19 | 0.19 | 0.08 |
| C | 3422 | 85 | MC | 0.54 | 0.40 | 0.40 | -0.11 | -0.23 | -0.19 |
| C | 3422 | 86A | CR | 0.74 | 0.45 | | | | |
| C | 3422 | 86B | CR | 0.44 | 0.42 | | | | |

Table A17 (cont.)
Summary Item Statistics – Mathematics Grade 7 Field Test Items

| FORM | N | ITEM | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 |
|------|------|------|-----------|-------------|-------------|-------------|--------|-------------|-------------|
| C | 3422 | 87 | SPR | 0.57 | 0.57 | | | | |
| C | 3422 | 88A | CR | 0.21 | 0.41 | | | | |
| C | 3422 | 88B | CR | 0.36 | 0.46 | | | | |
| C | 3422 | 89 | MC | 0.60 | 0.45 | -0.15 | 0.45 | -0.18 | -0.27 |
| C | 3422 | 90 | MC | 0.55 | 0.35 | 0.35 | -0.15 | -0.09 | -0.23 |
| C | 3422 | 91 | MC | 0.53 | 0.52 | -0.23 | -0.22 | 0.52 | -0.27 |
| C | 3422 | 92 | MC | 0.48 | 0.42 | -0.31 | -0.13 | -0.10 | 0.42 |
| C | 3422 | 93 | SPR | 0.64 | 0.57 | | | | |
| C | 3422 | 94 | SPR | 0.34 | 0.59 | | | | |
| C | 3422 | 95 | SPR | 0.50 | 0.60 | | | | |
| D | 3398 | 82A | CR | 0.33 | 0.39 | | | | |
| D | 3398 | 82B | CR | 0.34 | 0.38 | | | | |
| D | 3398 | 83 | MC | 0.29 | 0.42 | -0.05 | -0.15 | -0.26 | 0.42 |
| D | 3398 | 84 | MC | 0.81 | 0.39 | -0.23 | -0.20 | -0.17 | 0.39 |
| D | 3398 | 85 | MC | 0.47 | 0.42 | -0.17 | -0.25 | -0.11 | 0.42 |
| D | 3398 | 86A | CR | 0.42 | 0.48 | | | | |
| D | 3398 | 86B | CR | 0.21 | 0.48 | | | | |
| D | 3398 | 87 | SPR | 0.58 | 0.53 | | | | |
| D | 3398 | 88A | CR | 0.23 | 0.51 | | | | |
| D | 3398 | 88B | CR | 0.34 | 0.43 | | | | |
| D | 3398 | 89 | MC | 0.31 | 0.16 | -0.06 | 0.16 | -0.05 | -0.03 |
| D | 3398 | 91 | MC | 0.57 | 0.39 | 0.39 | -0.13 | -0.16 | -0.23 |
| D | 3398 | 92 | MC | 0.60 | 0.47 | -0.17 | -0.17 | 0.47 | -0.33 |
| D | 3398 | 93 | SPR | 0.40 | 0.53 | | | | |
| D | 3398 | 94 | SPR | 0.40 | 0.38 | | | | |
| D | 3398 | 95 | SPR | 0.28 | 0.43 | | | | |
| E | 3382 | 82A | CR | 0.31 | 0.56 | | | | |
| E | 3382 | 82B | CR | 0.30 | 0.51 | | | | |
| E | 3382 | 83 | MC | 0.49 | 0.38 | -0.21 | -0.28 | -0.06 | 0.38 |
| E | 3382 | 84 | MC | 0.37 | 0.40 | -0.11 | -0.22 | 0.40 | -0.11 |
| E | 3382 | 85 | MC | 0.61 | 0.33 | -0.11 | -0.15 | -0.22 | 0.33 |
| E | 3382 | 86A | CR | 0.17 | 0.26 | | | | |
| E | 3382 | 86B | CR | 0.36 | 0.38 | | | | |
| E | 3382 | 87 | SPR | 0.10 | 0.36 | | | | |
| E | 3382 | 88A | CR | 0.31 | 0.48 | | | | |
| E | 3382 | 88B | CR | 0.42 | 0.64 | | | | |
| E | 3382 | 89 | MC | 0.25 | 0.06 | 0.01 | -0.20 | 0.06 | 0.11 |

Table A17 (cont.)
Summary Item Statistics – Mathematics Grade 7 Field Test Items

| FORM | N | ITEM | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 |
|------|------|------|-----------|-------------|-------|--------|--------|--------|-------------|
| E | 3382 | 90 | MC | 0.26 | 0.40 | -0.23 | -0.11 | -0.04 | 0.40 |
| E | 3382 | 91 | MC | 0.47 | 0.42 | -0.24 | -0.24 | -0.05 | 0.42 |
| E | 3382 | 92 | MC | 0.34 | 0.37 | -0.23 | -0.23 | 0.37 | 0.04 |
| E | 3382 | 93 | SPR | 0.55 | 0.51 | | | | |
| E | 3382 | 94 | SPR | 0.37 | 0.52 | | | | |
| E | 3382 | 95 | SPR | 0.19 | 0.44 | | | | |

Table A18
Summary Item Statistics – Mathematics Grade 8 Field Test Items

| FORM | N | ITEM | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 |
|------|------|------|-----------|-------------|-------|--------|--------|--------|--------|
| A | 3573 | 77A | CR | 0.08 | 0.30 | | | | |
| A | 3573 | 77B | CR | 0.22 | 0.44 | | | | |
| A | 3573 | 78 | MC | 0.57 | 0.26 | 0.26 | -0.17 | -0.09 | -0.08 |
| A | 3573 | 79 | MC | 0.42 | 0.43 | 0.43 | -0.13 | -0.16 | -0.22 |
| A | 3573 | 80 | MC | 0.68 | 0.31 | -0.10 | -0.23 | 0.31 | -0.14 |
| A | 3573 | 81 | MC | 0.58 | 0.47 | -0.16 | -0.32 | 0.47 | -0.13 |
| A | 3573 | 82 | SPR | 0.16 | 0.55 | | | | |
| A | 3573 | 83 | SPR | 0.62 | 0.47 | | | | |
| A | 3573 | 84 | SPR | 0.24 | 0.55 | | | | |
| A | 3573 | 85 | SPR | 0.32 | 0.50 | | | | |
| A | 3573 | 86A | CR | 0.30 | 0.47 | | | | |
| A | 3573 | 86B | CR | 0.41 | 0.54 | | | | |
| A | 3573 | 87 | MC | 0.61 | 0.44 | 0.44 | -0.17 | -0.17 | -0.27 |
| A | 3573 | 88 | MC | 0.60 | 0.46 | 0.46 | -0.29 | -0.21 | -0.13 |
| A | 3573 | 89 | MC | 0.64 | 0.40 | -0.18 | 0.40 | -0.24 | -0.12 |
| A | 3573 | 90A | CR | 0.39 | 0.55 | | | | |
| A | 3573 | 90B | CR | 0.24 | 0.54 | | | | |
| B | 3520 | 77A | CR | 0.29 | 0.47 | | | | |
| B | 3520 | 77B | CR | 0.43 | 0.45 | | | | |
| B | 3520 | 78 | MC | 0.59 | 0.38 | -0.18 | -0.17 | -0.18 | 0.38 |
| B | 3520 | 79 | MC | 0.68 | 0.42 | -0.20 | -0.31 | 0.42 | -0.12 |
| B | 3520 | 80 | MC | 0.65 | 0.45 | -0.27 | -0.22 | -0.16 | 0.45 |
| B | 3520 | 81 | MC | 0.52 | 0.33 | -0.08 | -0.21 | -0.15 | 0.33 |
| B | 3520 | 82 | SPR | 0.74 | 0.38 | | | | |
| B | 3520 | 83 | SPR | 0.43 | 0.65 | | | | |
| B | 3520 | 84 | SPR | 0.20 | 0.58 | | | | |
| B | 3520 | 85 | SPR | 0.36 | 0.58 | | | | |
| B | 3520 | 87 | MC | 0.58 | 0.41 | -0.10 | -0.34 | 0.41 | -0.14 |
| B | 3520 | 88 | MC | 0.59 | 0.54 | -0.47 | -0.14 | 0.54 | -0.05 |
| B | 3520 | 89 | MC | 0.84 | 0.36 | -0.21 | 0.36 | -0.21 | -0.13 |
| C | 3525 | 77A | CR | 0.33 | 0.60 | | | | |
| C | 3525 | 77B | CR | 0.43 | 0.59 | | | | |
| C | 3525 | 78 | MC | 0.67 | 0.29 | -0.22 | -0.14 | 0.29 | -0.02 |
| C | 3525 | 79 | MC | 0.57 | 0.35 | -0.09 | -0.19 | -0.26 | 0.35 |
| C | 3525 | 80 | MC | 0.49 | 0.44 | 0.44 | -0.17 | -0.16 | -0.24 |
| C | 3525 | 81 | MC | 0.65 | 0.33 | -0.33 | -0.16 | 0.33 | -0.03 |
| C | 3525 | 82 | MC | 0.53 | 0.36 | -0.07 | 0.36 | -0.27 | -0.13 |

Table A18 (cont.)
Summary Item Statistics – Mathematics Grade 8 Field Test Items

| FORM | N | ITEM | ITEM TYPE | P_VAL | R_ITT | P_BIS1 | P_BIS2 | P_BIS3 | P_BIS4 |
|------|------|------|-----------|-------------|-------|-------------|--------|--------|--------|
| C | 3525 | 83 | SPR | 0.84 | 0.39 | | | | |
| C | 3525 | 85 | MC | 0.67 | 0.23 | -0.05 | 0.23 | -0.15 | -0.11 |
| C | 3525 | 86 | MC | 0.45 | 0.43 | 0.43 | -0.37 | -0.03 | -0.07 |
| C | 3525 | 87 | MC | 0.69 | 0.21 | 0.03 | -0.16 | 0.21 | -0.19 |
| C | 3525 | 88 | MC | 0.43 | 0.50 | -0.10 | -0.29 | -0.19 | 0.50 |
| C | 3525 | 89 | SPR | 0.61 | 0.44 | | | | |
| C | 3525 | 90 | SPR | 0.14 | 0.47 | | | | |
| D | 3524 | 77A | CR | 0.28 | 0.45 | | | | |
| D | 3524 | 77B | CR | 0.29 | 0.53 | | | | |
| D | 3524 | 78 | MC | 0.36 | 0.55 | -0.38 | -0.17 | 0.55 | -0.04 |
| D | 3524 | 79 | MC | 0.73 | 0.47 | 0.47 | -0.20 | -0.30 | -0.19 |
| D | 3524 | 80 | MC | 0.30 | 0.25 | -0.07 | -0.05 | -0.13 | 0.25 |
| D | 3524 | 81 | MC | 0.83 | 0.30 | -0.11 | -0.15 | -0.20 | 0.30 |
| D | 3524 | 82 | MC | 0.30 | 0.33 | -0.10 | -0.20 | 0.33 | -0.05 |
| D | 3524 | 83 | SPR | 0.59 | 0.17 | | | | |
| D | 3524 | 84A | CR | 0.48 | 0.48 | | | | |
| D | 3524 | 84B | CR | 0.61 | 0.47 | | | | |
| D | 3524 | 85 | MC | 0.54 | 0.34 | -0.14 | -0.15 | -0.17 | 0.34 |
| D | 3524 | 86 | MC | 0.63 | 0.37 | -0.24 | -0.23 | 0.37 | -0.05 |
| D | 3524 | 87 | MC | 0.34 | 0.35 | -0.17 | -0.15 | -0.14 | 0.35 |
| D | 3524 | 88 | MC | 0.65 | 0.31 | -0.19 | -0.15 | 0.31 | -0.12 |
| D | 3524 | 89 | SPR | 0.46 | 0.49 | | | | |
| D | 3524 | 90 | SPR | 0.67 | 0.44 | | | | |
| E | 3478 | 77A | CR | 0.09 | 0.31 | | | | |
| E | 3478 | 77B | CR | 0.10 | 0.39 | | | | |
| E | 3478 | 78 | MC | 0.42 | 0.53 | -0.39 | -0.20 | 0.53 | -0.02 |
| E | 3478 | 79 | MC | 0.30 | 0.30 | -0.16 | 0.30 | -0.13 | -0.12 |
| E | 3478 | 80A | CR | 0.23 | 0.60 | | | | |
| E | 3478 | 80B | CR | 0.21 | 0.62 | | | | |
| E | 3478 | 81 | MC | 0.34 | 0.32 | -0.21 | 0.32 | -0.03 | -0.11 |
| E | 3478 | 82 | MC | 0.35 | 0.40 | -0.21 | -0.07 | -0.14 | 0.40 |
| E | 3478 | 83 | MC | 0.52 | 0.46 | -0.25 | -0.18 | -0.21 | 0.46 |
| E | 3478 | 84 | MC | 0.88 | 0.19 | -0.14 | -0.05 | 0.19 | -0.12 |
| E | 3478 | 85A | CR | 0.53 | 0.58 | | | | |
| E | 3478 | 85B | CR | 0.64 | 0.58 | | | | |
| E | 3478 | 86 | SPR | 0.34 | 0.56 | | | | |
| E | 3478 | 87 | SPR | 0.13 | 0.48 | | | | |