

2007 Grade 7 Math Item Analysis

Frequency Table

MATH Question 1

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 32 | .0 | .0 | .0 |
| | 61 | .0 | .0 | .0 |
| 1 | 1295 | .6 | .6 | .7 |
| 3 | 2709 | 1.3 | 1.3 | 1.9 |
| 4 | 2956 | 1.4 | 1.4 | 3.3 |
| B | 206389 | 96.7 | 96.7 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 2

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 48 | .0 | .0 | .0 |
| | 60 | .0 | .0 | .1 |
| 1 | 2908 | 1.4 | 1.4 | 1.4 |
| 2 | 11430 | 5.4 | 5.4 | 6.8 |
| 3 | 4837 | 2.3 | 2.3 | 9.0 |
| D | 194159 | 91.0 | 91.0 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 3

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 28 | .0 | .0 | .0 |
| | 97 | .0 | .0 | .1 |
| 1 | 1879 | .9 | .9 | .9 |
| 2 | 3241 | 1.5 | 1.5 | 2.5 |
| 4 | 2955 | 1.4 | 1.4 | 3.8 |
| C | 205242 | 96.2 | 96.2 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 4

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 59 | .0 | .0 | .0 |
| | 70 | .0 | .0 | .1 |
| 1 | 7310 | 3.4 | 3.4 | 3.5 |
| 2 | 3013 | 1.4 | 1.4 | 4.9 |
| 4 | 5509 | 2.6 | 2.6 | 7.5 |
| C | 197481 | 92.5 | 92.5 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 5

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 82 | .0 | .0 | .0 |
| | 92 | .0 | .0 | .1 |
| 1 | 3906 | 1.8 | 1.8 | 1.9 |
| 2 | 12406 | 5.8 | 5.8 | 7.7 |
| 3 | 9206 | 4.3 | 4.3 | 12.0 |
| D | 187750 | 88.0 | 88.0 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 6

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 92 | .0 | .0 | .0 |
| | 353 | .2 | .2 | .2 |
| 2 | 13661 | 6.4 | 6.4 | 6.6 |
| 3 | 14152 | 6.6 | 6.6 | 13.2 |
| 4 | 13441 | 6.3 | 6.3 | 19.5 |
| A | 171743 | 80.5 | 80.5 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 7

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 56 | .0 | .0 | .0 |
| | 94 | .0 | .0 | .1 |
| 1 | 33923 | 15.9 | 15.9 | 16.0 |
| 2 | 7762 | 3.6 | 3.6 | 19.6 |
| 4 | 2404 | 1.1 | 1.1 | 20.7 |
| C | 169203 | 79.3 | 79.3 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 8

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 61 | .0 | .0 | .0 |
| | 161 | .1 | .1 | .1 |
| 1 | 18757 | 8.8 | 8.8 | 8.9 |
| 2 | 44040 | 20.6 | 20.6 | 29.5 |
| 4 | 16455 | 7.7 | 7.7 | 37.2 |
| C | 133968 | 62.8 | 62.8 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 9

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 44 | .0 | .0 | .0 |
| | 178 | .1 | .1 | .1 |
| 1 | 51880 | 24.3 | 24.3 | 24.4 |
| 3 | 8120 | 3.8 | 3.8 | 28.2 |
| 4 | 10957 | 5.1 | 5.1 | 33.3 |
| B | 142263 | 66.7 | 66.7 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 10

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 67 | .0 | .0 | .0 |
| | 159 | .1 | .1 | .1 |
| 1 | 24222 | 11.3 | 11.3 | 11.5 |
| 2 | 11326 | 5.3 | 5.3 | 16.8 |
| 3 | 21978 | 10.3 | 10.3 | 27.1 |
| D | 155690 | 72.9 | 72.9 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 11

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 45 | .0 | .0 | .0 |
| | 115 | .1 | .1 | .1 |
| 1 | 10408 | 4.9 | 4.9 | 5.0 |
| 3 | 59716 | 28.0 | 28.0 | 32.9 |
| 4 | 23391 | 11.0 | 11.0 | 43.9 |
| B | 119767 | 56.1 | 56.1 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 12

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 74 | .0 | .0 | .0 |
| | 248 | .1 | .1 | .2 |
| 2 | 29168 | 13.7 | 13.7 | 13.8 |
| 3 | 60323 | 28.3 | 28.3 | 42.1 |
| 4 | 27243 | 12.8 | 12.8 | 54.8 |
| A | 96386 | 45.2 | 45.2 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 13

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 73 | .0 | .0 | .0 |
| | 357 | .2 | .2 | .2 |
| 1 | 15731 | 7.4 | 7.4 | 7.6 |
| 2 | 19262 | 9.0 | 9.0 | 16.6 |
| 3 | 22904 | 10.7 | 10.7 | 27.3 |
| D | 155115 | 72.7 | 72.7 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 14

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 67 | .0 | .0 | .0 |
| | 192 | .1 | .1 | .1 |
| 1 | 25004 | 11.7 | 11.7 | 11.8 |
| 2 | 25759 | 12.1 | 12.1 | 23.9 |
| 4 | 33054 | 15.5 | 15.5 | 39.4 |
| C | 129366 | 60.6 | 60.6 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 15

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 63 | .0 | .0 | .0 |
| | 292 | .1 | .1 | .2 |
| 1 | 19225 | 9.0 | 9.0 | 9.2 |
| 2 | 46328 | 21.7 | 21.7 | 30.9 |
| 3 | 16120 | 7.6 | 7.6 | 38.4 |
| D | 131414 | 61.6 | 61.6 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 16

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 70 | .0 | .0 | .0 |
| | 179 | .1 | .1 | .1 |
| 1 | 28672 | 13.4 | 13.4 | 13.5 |
| 3 | 39351 | 18.4 | 18.4 | 32.0 |
| 4 | 20256 | 9.5 | 9.5 | 41.5 |
| B | 124914 | 58.5 | 58.5 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 17

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 52 | .0 | .0 | .0 |
| | 230 | .1 | .1 | .1 |
| 1 | 17845 | 8.4 | 8.4 | 8.5 |
| 2 | 23360 | 10.9 | 10.9 | 19.4 |
| 3 | 24731 | 11.6 | 11.6 | 31.0 |
| B | 67 | .0 | .0 | 31.1 |
| D | 147157 | 68.9 | 68.9 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 18

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 71 | .0 | .0 | .0 |
| | 169 | .1 | .1 | .1 |
| 1 | 8330 | 3.9 | 3.9 | 4.0 |
| 2 | 6576 | 3.1 | 3.1 | 7.1 |
| 4 | 40958 | 19.2 | 19.2 | 26.3 |
| C | 157338 | 73.7 | 73.7 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 19

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 66 | .0 | .0 | .0 |
| | 293 | .1 | .1 | .2 |
| 1 | 43608 | 20.4 | 20.4 | 20.6 |
| 2 | 19441 | 9.1 | 9.1 | 29.7 |
| 3 | 26106 | 12.2 | 12.2 | 41.9 |
| D | 123928 | 58.1 | 58.1 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 20

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 47 | .0 | .0 | .0 |
| | 204 | .1 | .1 | .1 |
| 1 | 86061 | 40.3 | 40.3 | 40.4 |
| 2 | 16765 | 7.9 | 7.9 | 48.3 |
| 4 | 16027 | 7.5 | 7.5 | 55.8 |
| C | 94338 | 44.2 | 44.2 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 21

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 68 | .0 | .0 | .0 |
| | 141 | .1 | .1 | .1 |
| 1 | 11669 | 5.5 | 5.5 | 5.6 |
| 2 | 5511 | 2.6 | 2.6 | 8.1 |
| 4 | 21508 | 10.1 | 10.1 | 18.2 |
| C | 174545 | 81.8 | 81.8 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 22

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 112 | .1 | .1 | .1 |
| | 231 | .1 | .1 | .2 |
| 1 | 72973 | 34.2 | 34.2 | 34.3 |
| 3 | 29002 | 13.6 | 13.6 | 47.9 |
| 4 | 8990 | 4.2 | 4.2 | 52.1 |
| B | 102134 | 47.9 | 47.9 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 23

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 102 | .0 | .0 | .0 |
| | 365 | .2 | .2 | .2 |
| 1 | 11398 | 5.3 | 5.3 | 5.6 |
| 2 | 21334 | 10.0 | 10.0 | 15.6 |
| 3 | 25071 | 11.7 | 11.7 | 27.3 |
| D | 155172 | 72.7 | 72.7 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 24

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 79 | .0 | .0 | .0 |
| | 302 | .1 | .1 | .2 |
| 1 | 18649 | 8.7 | 8.7 | 8.9 |
| 2 | 99171 | 46.5 | 46.5 | 55.4 |
| 4 | 10027 | 4.7 | 4.7 | 60.1 |
| C | 85214 | 39.9 | 39.9 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 25

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 92 | .0 | .0 | .0 |
| | 382 | .2 | .2 | .2 |
| 1 | 16552 | 7.8 | 7.8 | 8.0 |
| 2 | 38593 | 18.1 | 18.1 | 26.1 |
| 3 | 33322 | 15.6 | 15.6 | 41.7 |
| D | 124501 | 58.3 | 58.3 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 26

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 73 | .0 | .0 | .0 |
| | 441 | .2 | .2 | .2 |
| 1 | 14992 | 7.0 | 7.0 | 7.3 |
| 2 | 70921 | 33.2 | 33.2 | 40.5 |
| 3 | 58263 | 27.3 | 27.3 | 67.8 |
| D | 68752 | 32.2 | 32.2 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 27

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 76 | .0 | .0 | .0 |
| | 289 | .1 | .1 | .2 |
| 1 | 29201 | 13.7 | 13.7 | 13.9 |
| 3 | 73344 | 34.4 | 34.4 | 48.2 |
| 4 | 11801 | 5.5 | 5.5 | 53.7 |
| B | 98731 | 46.3 | 46.3 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 28

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 84 | .0 | .0 | .0 |
| | 502 | .2 | .2 | .3 |
| 1 | 28243 | 13.2 | 13.2 | 13.5 |
| 3 | 22735 | 10.7 | 10.7 | 24.2 |
| 4 | 27373 | 12.8 | 12.8 | 37.0 |
| B | 134505 | 63.0 | 63.0 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 29

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 91 | .0 | .0 | .0 |
| | 384 | .2 | .2 | .2 |
| 2 | 33619 | 15.8 | 15.8 | 16.0 |
| 3 | 17629 | 8.3 | 8.3 | 24.2 |
| 4 | 18877 | 8.8 | 8.8 | 33.1 |
| A | 142842 | 66.9 | 66.9 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

MATH Question 30

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|---------|-----------|---------|---------------|--------------------|
| Valid - | 65 | .0 | .0 | .0 |
| | 654 | .3 | .3 | .3 |
| 1 | 8230 | 3.9 | 3.9 | 4.2 |
| 2 | 26840 | 12.6 | 12.6 | 16.8 |
| 3 | 9138 | 4.3 | 4.3 | 21.0 |
| D | 168515 | 79.0 | 79.0 | 100.0 |
| Total | 213442 | 100.0 | 100.0 | |

2007 Grade 7 Math Item Analysis- CR

Descriptive Statistics

| | N | Minimum | Maximum | Mean | Std. Deviation |
|--------------------|--------|---------|---------|------|----------------|
| MATH Question 31 | 212835 | 0 | 3 | 1.97 | 1.024 |
| MATH Question 32 | 211998 | 0 | 2 | 1.29 | .831 |
| MATH Question 33 | 212453 | 0 | 3 | 1.45 | 1.057 |
| MATH Question 34 | 212058 | 0 | 3 | 1.38 | 1.188 |
| MATH Question 35 | 212586 | 0 | 2 | 1.33 | .791 |
| MATH Question 36 | 212469 | 0 | 3 | 2.05 | .977 |
| MATH Question 37 | 212537 | 0 | 2 | 1.32 | .656 |
| MATH Question 38 | 210328 | 0 | 2 | 1.09 | .851 |
| Valid N (listwise) | 207139 | | | | |