

2008 Grade 3 Mathematics Item Analysis- Multiple Choice

MATH Question 1

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	469	.2	.2	.2
*	62	.0	.0	.3
1	2761	1.4	1.4	1.7
3	5738	2.9	2.9	4.6
4	2644	1.3	1.3	5.9
B	185915	94.1	94.1	100.0
Total	197589	100.0	100.0	

MATH Question 2

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	510	.3	.3	.3
*	118	.1	.1	.3
1	3054	1.5	1.5	1.9
2	5952	3.0	3.0	4.9
4	7076	3.6	3.6	8.5
C	180879	91.5	91.5	100.0
Total	197589	100.0	100.0	

MATH Question 3

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	567	.3	.3	.3
*	134	.1	.1	.4
2	5806	2.9	2.9	3.3
3	6892	3.5	3.5	6.8
4	10608	5.4	5.4	12.1
A	173582	87.9	87.9	100.0
Total	197589	100.0	100.0	

MATH Question 4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	523	.3	.3	.3
*	80	.0	.0	.3
1	9365	4.7	4.7	5.0
3	4447	2.3	2.3	7.3
4	5257	2.7	2.7	10.0
B	177917	90.0	90.0	100.0
Total	197589	100.0	100.0	

MATH Question 5

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	559	.3	.3	.3
*	83	.0	.0	.3
1	11087	5.6	5.6	5.9
2	7696	3.9	3.9	9.8
4	4068	2.1	2.1	11.9
C	174096	88.1	88.1	100.0
Total	197589	100.0	100.0	

MATH Question 6

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	580	.3	.3	.3
*	73	.0	.0	.3
1	17048	8.6	8.6	9.0
3	9716	4.9	4.9	13.9
4	9168	4.6	4.6	18.5
B	161004	81.5	81.5	100.0
Total	197589	100.0	100.0	

MATH Question 7

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	512	.3	.3	.3
*	86	.0	.0	.3
1	13932	7.1	7.1	7.4
3	2431	1.2	1.2	8.6
4	1044	.5	.5	9.1
B	179584	90.9	90.9	100.0
Total	197589	100.0	100.0	

MATH Question 8

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	566	.3	.3	.3
*	75	.0	.0	.3
1	9694	4.9	4.9	5.2
2	12702	6.4	6.4	11.7
4	12148	6.1	6.1	17.8
C	162404	82.2	82.2	100.0
Total	197589	100.0	100.0	

MATH Question 9

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	539	.3	.3	.3
*	39	.0	.0	.3
2	4139	2.1	2.1	2.4
3	3094	1.6	1.6	4.0
4	5972	3.0	3.0	7.0
A	183806	93.0	93.0	100.0
Total	197589	100.0	100.0	

MATH Question 10

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	524	.3	.3	.3
*	108	.1	.1	.3
2	5502	2.8	2.8	3.1
3	5278	2.7	2.7	5.8
4	882	.4	.4	6.2
A	185295	93.8	93.8	100.0
Total	197589	100.0	100.0	

MATH Question 11

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	549	.3	.3	.3
*	72	.0	.0	.3
1	31687	16.0	16.0	16.4
2	5433	2.7	2.7	19.1
4	5492	2.8	2.8	21.9
C	154356	78.1	78.1	100.0
Total	197589	100.0	100.0	

MATH Question 12

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	555	.3	.3	.3
*	82	.0	.0	.3
1	5119	2.6	2.6	2.9
2	6758	3.4	3.4	6.3
4	18846	9.5	9.5	15.9
C	166229	84.1	84.1	100.0
Total	197589	100.0	100.0	

MATH Question 13

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	608	.3	.3	.3
*	130	.1	.1	.4
1	4245	2.1	2.1	2.5
3	11178	5.7	5.7	8.2
4	8864	4.5	4.5	12.7
B	172564	87.3	87.3	100.0
Total	197589	100.0	100.0	

MATH Question 14

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	578	.3	.3	.3
*	81	.0	.0	.3
1	5513	2.8	2.8	3.1
2	3553	1.8	1.8	4.9
3	3783	1.9	1.9	6.8
D	184081	93.2	93.2	100.0
Total	197589	100.0	100.0	

MATH Question 15

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	606	.3	.3	.3
*	100	.1	.1	.4
1	3979	2.0	2.0	2.4
2	1262	.6	.6	3.0
3	18487	9.4	9.4	12.4
D	173155	87.6	87.6	100.0
Total	197589	100.0	100.0	

MATH Question 16

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	620	.3	.3	.3
*	150	.1	.1	.4
2	23208	11.7	11.7	12.1
3	15390	7.8	7.8	19.9
4	13400	6.8	6.8	26.7
A	144821	73.3	73.3	100.0
Total	197589	100.0	100.0	

MATH Question 17

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	623	.3	.3	.3
*	122	.1	.1	.4
1	10204	5.2	5.2	5.5
2	6961	3.5	3.5	9.1
3	5249	2.7	2.7	11.7
D	174430	88.3	88.3	100.0
Total	197589	100.0	100.0	

MATH Question 18

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	578	.3	.3	.3
*	62	.0	.0	.3
1	16369	8.3	8.3	8.6
3	6286	3.2	3.2	11.8
4	2810	1.4	1.4	13.2
B	171484	86.8	86.8	100.0
Total	197589	100.0	100.0	

MATH Question 19

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	624	.3	.3	.3
*	57	.0	.0	.3
1	9770	4.9	4.9	5.3
2	10922	5.5	5.5	10.8
4	5232	2.6	2.6	13.5
C	170984	86.5	86.5	100.0
Total	197589	100.0	100.0	

MATH Question 20

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	647	.3	.3	.3
*	64	.0	.0	.4
1	1835	.9	.9	1.3
3	9024	4.6	4.6	5.9
4	3519	1.8	1.8	7.6
B	182500	92.4	92.4	100.0
Total	197589	100.0	100.0	

MATH Question 21

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	653	.3	.3	.3
*	71	.0	.0	.4
1	3578	1.8	1.8	2.2
2	4545	2.3	2.3	4.5
4	1252	.6	.6	5.1
C	187490	94.9	94.9	100.0
Total	197589	100.0	100.0	

MATH Question 22

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	676	.3	.3	.3
*	49	.0	.0	.4
1	19297	9.8	9.8	10.1
3	8416	4.3	4.3	14.4
4	2059	1.0	1.0	15.4
B	167092	84.6	84.6	100.0
Total	197589	100.0	100.0	

MATH Question 23

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	770	.4	.4	.4
*	83	.0	.0	.4
1	7504	3.8	3.8	4.2
2	14472	7.3	7.3	11.6
4	24894	12.6	12.6	24.2
C	149866	75.8	75.8	100.0
Total	197589	100.0	100.0	

MATH Question 24

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	913	.5	.5	.5
*	58	.0	.0	.5
1	14437	7.3	7.3	7.8
2	16094	8.1	8.1	15.9
3	13343	6.8	6.8	22.7
D	152744	77.3	77.3	100.0
Total	197589	100.0	100.0	

MATH Question 25

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1446	.7	.7	.7
*	67	.0	.0	.8
1	7719	3.9	3.9	4.7
2	11067	5.6	5.6	10.3
3	28698	14.5	14.5	24.8
D	148592	75.2	75.2	100.0
Total	197589	100.0	100.0	

2008 Grade 3 Mathematics Item Analysis- Constructed Response

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Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
MATH Question 26	196960	0	2	1.45	.717
MATH Question 27	196948	0	2	1.32	.660
MATH Question 28	196858	0	2	1.15	.747
MATH Question 29	196897	0	2	1.49	.767
MATH Question 30	196966	0	3	2.28	.706
MATH Question 31	196864	0	3	2.52	.885
Valid N (listwise)	196387				