

2008 Grade 5 Mathematics Item Analysis Multiple Choice

MATH Question 1

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	476	.2	.2	.2
*	36	.0	.0	.3
1	9694	4.9	4.9	5.1
2	5318	2.7	2.7	7.8
4	26301	13.2	13.2	20.9
C	158020	79.1	79.1	100.0
Total	199845	100.0	100.0	

MATH Question 2

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	505	.3	.3	.3
*	48	.0	.0	.3
1	10471	5.2	5.2	5.5
2	22272	11.1	11.1	16.7
3	16794	8.4	8.4	25.1
D	149755	74.9	74.9	100.0
Total	199845	100.0	100.0	

MATH Question 3

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	470	.2	.2	.2
*	24	.0	.0	.2
1	3213	1.6	1.6	1.9
2	981	.5	.5	2.3
4	2973	1.5	1.5	3.8
C	192184	96.2	96.2	100.0
Total	199845	100.0	100.0	

MATH Question 4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	499	.2	.2	.2
*	75	.0	.0	.3
1	25371	12.7	12.7	13.0
2	21457	10.7	10.7	23.7
3	10945	5.5	5.5	29.2
D	141498	70.8	70.8	100.0
Total	199845	100.0	100.0	

MATH Question 5

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	546	.3	.3	.3
*	86	.0	.0	.3
1	7417	3.7	3.7	4.0
2	8270	4.1	4.1	8.2
3	30825	15.4	15.4	23.6
D	152701	76.4	76.4	100.0
Total	199845	100.0	100.0	

MATH Question 6

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	611	.3	.3	.3
*	55	.0	.0	.3
1	35774	17.9	17.9	18.2
3	23545	11.8	11.8	30.0
4	7129	3.6	3.6	33.6
B	132731	66.4	66.4	100.0
Total	199845	100.0	100.0	

MATH Question 7

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	596	.3	.3	.3
*	69	.0	.0	.3
1	65230	32.6	32.6	33.0
2	15715	7.9	7.9	40.8
4	9751	4.9	4.9	45.7
C	108484	54.3	54.3	100.0
Total	199845	100.0	100.0	

MATH Question 8

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	518	.3	.3	.3
*	96	.0	.0	.3
1	9180	4.6	4.6	4.9
3	20368	10.2	10.2	15.1
4	16571	8.3	8.3	23.4
B	153112	76.6	76.6	100.0
Total	199845	100.0	100.0	

MATH Question 9

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	490	.2	.2	.2
*	34	.0	.0	.3
1	20131	10.1	10.1	10.3
2	8930	4.5	4.5	14.8
3	20494	10.3	10.3	25.1
D	149766	74.9	74.9	100.0
Total	199845	100.0	100.0	

MATH Question 10

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	527	.3	.3	.3
*	55	.0	.0	.3
1	12301	6.2	6.2	6.4
2	20812	10.4	10.4	16.9
3	17100	8.6	8.6	25.4
D	149050	74.6	74.6	100.0
Total	199845	100.0	100.0	

MATH Question 11

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	513	.3	.3	.3
*	48	.0	.0	.3
1	3893	1.9	1.9	2.2
2	12157	6.1	6.1	8.3
4	9797	4.9	4.9	13.2
C	173437	86.8	86.8	100.0
Total	199845	100.0	100.0	

MATH Question 12

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	513	.3	.3	.3
*	40	.0	.0	.3
1	2827	1.4	1.4	1.7
2	9570	4.8	4.8	6.5
4	13940	7.0	7.0	13.5
C	172955	86.5	86.5	100.0
Total	199845	100.0	100.0	

MATH Question 13

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	575	.3	.3	.3
*	37	.0	.0	.3
1	26582	13.3	13.3	13.6
3	31841	15.9	15.9	29.5
4	7568	3.8	3.8	33.3
B	133242	66.7	66.7	100.0
Total	199845	100.0	100.0	

MATH Question 14

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	513	.3	.3	.3
*	21	.0	.0	.3
2	4942	2.5	2.5	2.7
3	1868	.9	.9	3.7
4	2346	1.2	1.2	4.8
A	190155	95.2	95.2	100.0
Total	199845	100.0	100.0	

MATH Question 15

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	508	.3	.3	.3
*	72	.0	.0	.3
2	11440	5.7	5.7	6.0
3	2145	1.1	1.1	7.1
4	2920	1.5	1.5	8.5
A	182760	91.5	91.5	100.0
Total	199845	100.0	100.0	

MATH Question 16

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	571	.3	.3	.3
*	98	.0	.0	.3
1	6790	3.4	3.4	3.7
2	61500	30.8	30.8	34.5
3	10187	5.1	5.1	39.6
D	120699	60.4	60.4	100.0
Total	199845	100.0	100.0	

MATH Question 17

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	597	.3	.3	.3
*	59	.0	.0	.3
1	56980	28.5	28.5	28.8
3	7833	3.9	3.9	32.8
4	13321	6.7	6.7	39.4
B	121055	60.6	60.6	100.0
Total	199845	100.0	100.0	

MATH Question 18

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	775	.4	.4	.4
*	63	.0	.0	.4
1	21594	10.8	10.8	11.2
3	35357	17.7	17.7	28.9
4	16511	8.3	8.3	37.2
B	125545	62.8	62.8	100.0
Total	199845	100.0	100.0	

MATH Question 19

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	549	.3	.3	.3
*	64	.0	.0	.3
1	13925	7.0	7.0	7.3
2	17179	8.6	8.6	15.9
3	7948	4.0	4.0	19.8
D	160180	80.2	80.2	100.0
Total	199845	100.0	100.0	

MATH Question 20

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	667	.3	.3	.3
*	53	.0	.0	.4
2	18874	9.4	9.4	9.8
3	28110	14.1	14.1	23.9
4	17515	8.8	8.8	32.6
A	134626	67.4	67.4	100.0
Total	199845	100.0	100.0	

MATH Question 21

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	623	.3	.3	.3
*	105	.1	.1	.4
1	12681	6.3	6.3	6.7
2	26754	13.4	13.4	20.1
4	6444	3.2	3.2	23.3
C	153238	76.7	76.7	100.0
Total	199845	100.0	100.0	

MATH Question 22

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	595	.3	.3	.3
*	137	.1	.1	.4
2	3305	1.7	1.7	2.0
3	2597	1.3	1.3	3.3
4	3147	1.6	1.6	4.9
A	190064	95.1	95.1	100.0
Total	199845	100.0	100.0	

MATH Question 23

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	696	.3	.3	.3
*	130	.1	.1	.4
1	15762	7.9	7.9	8.3
2	17453	8.7	8.7	17.0
3	7996	4.0	4.0	21.0
D	157808	79.0	79.0	100.0
Total	199845	100.0	100.0	

MATH Question 24

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	829	.4	.4	.4
*	79	.0	.0	.5
1	20900	10.5	10.5	10.9
2	34311	17.2	17.2	28.1
4	17837	8.9	8.9	37.0
C	125889	63.0	63.0	100.0
Total	199845	100.0	100.0	

MATH Question 25

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	974	.5	.5	.5
*	62	.0	.0	.5
1	33837	16.9	16.9	17.5
3	11158	5.6	5.6	23.0
4	18799	9.4	9.4	32.4
B	135015	67.6	67.6	100.0
Total	199845	100.0	100.0	

MATH Question 26

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1220	.6	.6	.6
*	35	.0	.0	.6
2	25315	12.7	12.7	13.3
3	10624	5.3	5.3	18.6
4	8741	4.4	4.4	23.0
A	153910	77.0	77.0	100.0
Total	199845	100.0	100.0	

2008 Grade 5 Mathematics Item Analysis Constructed Response

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
MATH Question 27	199227	0	2	1.52	.705
MATH Question 28	199084	0	3	1.87	1.082
MATH Question 29	199212	0	2	1.45	.727
MATH Question 30	198964	0	3	1.65	1.061
MATH Question 31	198964	0	2	1.23	.757
MATH Question 32	199216	0	3	1.90	.944
MATH Question 33	199211	0	2	1.80	.444
MATH Question 34	199160	0	3	2.28	.998
Valid N (listwise)	198169				