

2008 Grade 8 Mathematics Item Analysis Multiple Choice

MATH Question 1

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	874	.4	.4	.4
*	32	.0	.0	.4
1	5341	2.5	2.5	3.0
2	4015	1.9	1.9	4.9
3	4279	2.0	2.0	6.9
D	196605	93.1	93.1	100.0
Total	211146	100.0	100.0	

MATH Question 2

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	836	.4	.4	.4
*	65	.0	.0	.4
1	27971	13.2	13.2	13.7
2	29541	14.0	14.0	27.7
3	4495	2.1	2.1	29.8
D	148238	70.2	70.2	100.0
Total	211146	100.0	100.0	

MATH Question 3

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	839	.4	.4	.4
*	53	.0	.0	.4
1	9275	4.4	4.4	4.8
3	37860	17.9	17.9	22.7
4	1529	.7	.7	23.5
B	161590	76.5	76.5	100.0
Total	211146	100.0	100.0	

MATH Question 4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	892	.4	.4	.4
*	61	.0	.0	.5
2	21890	10.4	10.4	10.8
3	3635	1.7	1.7	12.5
4	1231	.6	.6	13.1
A	183437	86.9	86.9	100.0
Total	211146	100.0	100.0	

MATH Question 5

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	857	.4	.4	.4
*	69	.0	.0	.4
1	19331	9.2	9.2	9.6
2	28383	13.4	13.4	23.0
3	22961	10.9	10.9	33.9
D	139545	66.1	66.1	100.0
Total	211146	100.0	100.0	

MATH Question 6

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	927	.4	.4	.4
*	53	.0	.0	.5
1	10323	4.9	4.9	5.4
3	13789	6.5	6.5	11.9
4	5557	2.6	2.6	14.5
B	180497	85.5	85.5	100.0
Total	211146	100.0	100.0	

MATH Question 7

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	996	.5	.5	.5
*	72	.0	.0	.5
1	8745	4.1	4.1	4.6
2	9783	4.6	4.6	9.3
3	44439	21.0	21.0	30.3
D	147111	69.7	69.7	100.0
Total	211146	100.0	100.0	

MATH Question 8

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	901	.4	.4	.4
*	67	.0	.0	.5
2	55564	26.3	26.3	26.8
3	17105	8.1	8.1	34.9
4	9896	4.7	4.7	39.6
A	127613	60.4	60.4	100.0
Total	211146	100.0	100.0	

MATH Question 9

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	900	.4	.4	.4
*	53	.0	.0	.5
2	13792	6.5	6.5	7.0
3	45001	21.3	21.3	28.3
4	17249	8.2	8.2	36.5
A	134151	63.5	63.5	100.0
Total	211146	100.0	100.0	

MATH Question 10

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	908	.4	.4	.4
*	54	.0	.0	.5
1	74680	35.4	35.4	35.8
3	8084	3.8	3.8	39.7
4	5636	2.7	2.7	42.3
B	121784	57.7	57.7	100.0
Total	211146	100.0	100.0	

MATH Question 11

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	993	.5	.5	.5
*	65	.0	.0	.5
1	41167	19.5	19.5	20.0
2	16347	7.7	7.7	27.7
3	24441	11.6	11.6	39.3
D	128133	60.7	60.7	100.0
Total	211146	100.0	100.0	

MATH Question 12

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	862	.4	.4	.4
*	57	.0	.0	.4
1	4786	2.3	2.3	2.7
3	7960	3.8	3.8	6.5
4	9180	4.3	4.3	10.8
B	188301	89.2	89.2	100.0
Total	211146	100.0	100.0	

MATH Question 13

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	883	.4	.4	.4
*	57	.0	.0	.4
1	7614	3.6	3.6	4.1
2	15745	7.5	7.5	11.5
3	12681	6.0	6.0	17.5
D	174166	82.5	82.5	100.0
Total	211146	100.0	100.0	

MATH Question 14

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	966	.5	.5	.5
*	69	.0	.0	.5
1	18887	8.9	8.9	9.4
3	25449	12.1	12.1	21.5
4	19790	9.4	9.4	30.9
B	145985	69.1	69.1	100.0
Total	211146	100.0	100.0	

MATH Question 15

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	891	.4	.4	.4
*	44	.0	.0	.4
1	11753	5.6	5.6	6.0
3	12420	5.9	5.9	11.9
4	6380	3.0	3.0	14.9
B	179658	85.1	85.1	100.0
Total	211146	100.0	100.0	

MATH Question 16

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1141	.5	.5	.5
*	69	.0	.0	.6
2	38606	18.3	18.3	18.9
3	34529	16.4	16.4	35.2
4	33300	15.8	15.8	51.0
A	103501	49.0	49.0	100.0
Total	211146	100.0	100.0	

MATH Question 17

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	899	.4	.4	.4
*	86	.0	.0	.5
2	15596	7.4	7.4	7.9
3	21180	10.0	10.0	17.9
4	25540	12.1	12.1	30.0
A	147845	70.0	70.0	100.0
Total	211146	100.0	100.0	

MATH Question 18

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	890	.4	.4	.4
*	67	.0	.0	.5
1	23836	11.3	11.3	11.7
2	3386	1.6	1.6	13.3
3	5101	2.4	2.4	15.8
D	177866	84.2	84.2	100.0
Total	211146	100.0	100.0	

MATH Question 19

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	962	.5	.5	.5
*	64	.0	.0	.5
2	26691	12.6	12.6	13.1
3	13517	6.4	6.4	19.5
4	9644	4.6	4.6	24.1
A	160268	75.9	75.9	100.0
Total	211146	100.0	100.0	

MATH Question 20

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	935	.4	.4	.4
*	66	.0	.0	.5
1	52949	25.1	25.1	25.6
2	16743	7.9	7.9	33.5
4	29719	14.1	14.1	47.6
C	110734	52.4	52.4	100.0
Total	211146	100.0	100.0	

MATH Question 21

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	915	.4	.4	.4
*	80	.0	.0	.5
1	7790	3.7	3.7	4.2
2	10747	5.1	5.1	9.3
4	15899	7.5	7.5	16.8
C	175715	83.2	83.2	100.0
Total	211146	100.0	100.0	

MATH Question 22

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	934	.4	.4	.4
*	90	.0	.0	.5
2	26816	12.7	12.7	13.2
3	31324	14.8	14.8	28.0
4	27827	13.2	13.2	41.2
A	124155	58.8	58.8	100.0
Total	211146	100.0	100.0	

MATH Question 23

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1145	.5	.5	.5
*	78	.0	.0	.6
2	54493	25.8	25.8	26.4
3	17887	8.5	8.5	34.9
4	13553	6.4	6.4	41.3
A	123990	58.7	58.7	100.0
Total	211146	100.0	100.0	

MATH Question 24

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1096	.5	.5	.5
*	80	.0	.0	.6
1	10682	5.1	5.1	5.6
3	43861	20.8	20.8	26.4
4	16198	7.7	7.7	34.1
B	139229	65.9	65.9	100.0
Total	211146	100.0	100.0	

MATH Question 25

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1044	.5	.5	.5
*	85	.0	.0	.5
1	7183	3.4	3.4	3.9
2	27697	13.1	13.1	17.1
4	26635	12.6	12.6	29.7
C	148502	70.3	70.3	100.0
Total	211146	100.0	100.0	

MATH Question 26

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1039	.5	.5	.5
*	77	.0	.0	.5
2	13252	6.3	6.3	6.8
3	12646	6.0	6.0	12.8
4	21593	10.2	10.2	23.0
A	162539	77.0	77.0	100.0
Total	211146	100.0	100.0	

MATH Question 27

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1141	.5	.5	.5
*	54	.0	.0	.6
1	11467	5.4	5.4	6.0
3	17980	8.5	8.5	14.5
4	14324	6.8	6.8	21.3
B	166180	78.7	78.7	100.0
Total	211146	100.0	100.0	

2008 Grade 8 Mathematics Item Analysis Constructed Response

[DataSet1] C:\Documents and Settings\dthomps\My Documents\2008 MATH files\2008 8 MATH PC items.sav

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
MATH Question 28	209387	0	3	2.03	1.006
MATH Question 29	209147	0	2	1.32	.823
MATH Question 30	207428	0	2	1.24	.828
MATH Question 31	207611	0	3	1.69	1.304
MATH Question 32	208881	0	2	1.32	.699
MATH Question 33	209037	0	2	1.35	.682
MATH Question 34	208769	0	2	1.60	.771
MATH Question 35	208118	0	2	.94	.886
MATH Question 36	209201	0	2	1.15	.813
MATH Question 37	208600	0	2	1.01	.698
MATH Question 38	208532	0	2	1.17	.707
MATH Question 39	208955	0	2	1.08	.892
MATH Question 40	207976	0	3	1.94	1.199
MATH Question 41	208255	0	3	2.29	1.093
MATH Question 42	208257	0	3	2.07	.964
MATH Question 43	208857	0	3	1.73	1.268
MATH Question 44	207085	0	2	1.03	.900
MATH Question 45	207918	0	2	1.45	.861
Valid N (listwise)	197153				