

2009 Grade 6 Math Item Analysis- Multiple Choice Items

MATH Question 1

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	36	.0	.0	.0
*	25	.0	.0	.0
1	2430	1.2	1.2	1.2
2	3687	1.8	1.8	3.0
4	2302	1.1	1.1	4.1
C	200851	95.9	95.9	100.0
Total	209331	100.0	100.0	

MATH Question 2

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	217	.1	.1	.1
*	48	.0	.0	.1
2	23014	11.0	11.0	11.1
3	18441	8.8	8.8	19.9
4	22216	10.6	10.6	30.5
A	145395	69.5	69.5	100.0
Total	209331	100.0	100.0	

MATH Question 3

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	72	.0	.0	.0
*	28	.0	.0	.0
1	20608	9.8	9.8	9.9
2	10051	4.8	4.8	14.7
4	4226	2.0	2.0	16.7
C	174346	83.3	83.3	100.0
Total	209331	100.0	100.0	

MATH Question 4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	51	.0	.0	.0
*	70	.0	.0	.1
1	3741	1.8	1.8	1.8
2	877	.4	.4	2.3
3	4989	2.4	2.4	4.6
D	199603	95.4	95.4	100.0
Total	209331	100.0	100.0	

MATH Question 5

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	222	.1	.1	.1
*	33	.0	.0	.1
1	23210	11.1	11.1	11.2
2	20539	9.8	9.8	21.0
4	2730	1.3	1.3	22.3
C	162597	77.7	77.7	100.0
Total	209331	100.0	100.0	

MATH Question 6

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	83	.0	.0	.0
*	31	.0	.0	.1
1	10701	5.1	5.1	5.2
2	5136	2.5	2.5	7.6
4	22736	10.9	10.9	18.5
C	170644	81.5	81.5	100.0
Total	209331	100.0	100.0	

MATH Question 7

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	214	.1	.1	.1
*	36	.0	.0	.1
2	42852	20.5	20.5	20.6
3	22693	10.8	10.8	31.4
4	8214	3.9	3.9	35.4
A	135322	64.6	64.6	100.0
Total	209331	100.0	100.0	

MATH Question 8

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	241	.1	.1	.1
*	34	.0	.0	.1
1	9790	4.7	4.7	4.8
3	10345	4.9	4.9	9.8
4	23625	11.3	11.3	21.0
B	165296	79.0	79.0	100.0
Total	209331	100.0	100.0	

MATH Question 9

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	225	.1	.1	.1
*	30	.0	.0	.1
1	15594	7.4	7.4	7.6
3	35318	16.9	16.9	24.4
4	16748	8.0	8.0	32.4
B	141416	67.6	67.6	100.0
Total	209331	100.0	100.0	

MATH Question 10

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	276	.1	.1	.1
*	51	.0	.0	.2
1	57858	27.6	27.6	27.8
2	20711	9.9	9.9	37.7
4	11957	5.7	5.7	43.4
C	118478	56.6	56.6	100.0
Total	209331	100.0	100.0	

MATH Question 11

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	117	.1	.1	.1
*	67	.0	.0	.1
1	25096	12.0	12.0	12.1
2	5542	2.6	2.6	14.7
3	8554	4.1	4.1	18.8
D	169955	81.2	81.2	100.0
Total	209331	100.0	100.0	

MATH Question 12

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	175	.1	.1	.1
*	26	.0	.0	.1
1	16099	7.7	7.7	7.8
3	22607	10.8	10.8	18.6
4	20731	9.9	9.9	28.5
B	149693	71.5	71.5	100.0
Total	209331	100.0	100.0	

MATH Question 13

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	115	.1	.1	.1
*	53	.0	.0	.1
1	30093	14.4	14.4	14.5
3	8825	4.2	4.2	18.7
4	31487	15.0	15.0	33.7
B	138758	66.3	66.3	100.0
Total	209331	100.0	100.0	

MATH Question 14

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	138	.1	.1	.1
*	26	.0	.0	.1
1	10498	5.0	5.0	5.1
2	23377	11.2	11.2	16.3
4	13725	6.6	6.6	22.8
C	161567	77.2	77.2	100.0
Total	209331	100.0	100.0	

MATH Question 15

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	166	.1	.1	.1
*	50	.0	.0	.1
1	8135	3.9	3.9	4.0
2	42050	20.1	20.1	24.1
3	16536	7.9	7.9	32.0
D	142394	68.0	68.0	100.0
Total	209331	100.0	100.0	

MATH Question 16

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	204	.1	.1	.1
*	33	.0	.0	.1
1	4719	2.3	2.3	2.4
3	64661	30.9	30.9	33.3
4	7041	3.4	3.4	36.6
B	132673	63.4	63.4	100.0
Total	209331	100.0	100.0	

MATH Question 17

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	233	.1	.1	.1
*	47	.0	.0	.1
1	25567	12.2	12.2	12.3
2	6490	3.1	3.1	15.4
3	9732	4.6	4.6	20.1
D	167262	79.9	79.9	100.0
Total	209331	100.0	100.0	

MATH Question 18

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	276	.1	.1	.1
*	44	.0	.0	.2
1	25614	12.2	12.2	12.4
2	10234	4.9	4.9	17.3
3	9221	4.4	4.4	21.7
D	163942	78.3	78.3	100.0
Total	209331	100.0	100.0	

MATH Question 19

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	164	.1	.1	.1
*	45	.0	.0	.1
2	32370	15.5	15.5	15.6
3	5639	2.7	2.7	18.3
4	9812	4.7	4.7	22.9
A	161301	77.1	77.1	100.0
Total	209331	100.0	100.0	

MATH Question 20

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	304	.1	.1	.1
*	40	.0	.0	.2
1	9372	4.5	4.5	4.6
2	17353	8.3	8.3	12.9
3	27894	13.3	13.3	26.3
D	154368	73.7	73.7	100.0
Total	209331	100.0	100.0	

MATH Question 21

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	361	.2	.2	.2
*	75	.0	.0	.2
1	8294	4.0	4.0	4.2
2	36503	17.4	17.4	21.6
4	37478	17.9	17.9	39.5
C	126620	60.5	60.5	100.0
Total	209331	100.0	100.0	

MATH Question 22

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	410	.2	.2	.2
*	75	.0	.0	.2
1	7324	3.5	3.5	3.7
2	25308	12.1	12.1	15.8
3	18256	8.7	8.7	24.5
D	157958	75.5	75.5	100.0
Total	209331	100.0	100.0	

MATH Question 23

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	414	.2	.2	.2
*	64	.0	.0	.2
1	8152	3.9	3.9	4.1
2	30709	14.7	14.7	18.8
3	42026	20.1	20.1	38.9
D	127966	61.1	61.1	100.0
Total	209331	100.0	100.0	

MATH Question 24

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	622	.3	.3	.3
*	45	.0	.0	.3
1	40819	19.5	19.5	19.8
3	19069	9.1	9.1	28.9
4	9428	4.5	4.5	33.4
B	139348	66.6	66.6	100.0
Total	209331	100.0	100.0	

MATH Question 25

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	758	.4	.4	.4
*	37	.0	.0	.4
2	3950	1.9	1.9	2.3
3	3906	1.9	1.9	4.1
4	47885	22.9	22.9	27.0
A	152795	73.0	73.0	100.0
Total	209331	100.0	100.0	

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MATH Question 26

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 0	19194	9.2	9.2	9.2
1	29328	14.0	14.0	23.2
2	160389	76.6	76.8	100.0
Total	208911	99.8	100.0	
Missing System	420	.2		
Total	209331	100.0		

MATH Question 27

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 0	40986	19.6	19.6	19.6
1	107120	51.2	51.3	71.0
2	60550	28.9	29.0	100.0
Total	208656	99.7	100.0	
Missing System	675	.3		
Total	209331	100.0		

MATH Question 28

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 0	84790	40.5	40.6	40.6
1	24227	11.6	11.6	52.2
2	99850	47.7	47.8	100.0
Total	208867	99.8	100.0	
Missing System	464	.2		
Total	209331	100.0		

MATH Question 29

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	31406	15.0	15.1	15.1
	1	44664	21.3	21.4	36.5
	2	132603	63.3	63.5	100.0
	Total	208673	99.7	100.0	
Missing	System	658	.3		
Total		209331	100.0		

MATH Question 30

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	38721	18.5	18.5	18.5
	1	47148	22.5	22.6	41.1
	2	123018	58.8	58.9	100.0
	Total	208887	99.8	100.0	
Missing	System	444	.2		
Total		209331	100.0		

MATH Question 31

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	63922	30.5	30.6	30.6
	1	18388	8.8	8.8	39.4
	2	126374	60.4	60.6	100.0
	Total	208684	99.7	100.0	
Missing	System	647	.3		
Total		209331	100.0		

MATH Question 32

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	31726	15.2	15.2	15.2
	1	35409	16.9	17.0	32.2
	2	79440	37.9	38.1	70.3
	3	62050	29.6	29.7	100.0
	Total	208625	99.7	100.0	
Missing	System	706	.3		
Total		209331	100.0		

MATH Question 33

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	64085	30.6	30.7	30.7
	1	42933	20.5	20.6	51.3
	2	20586	9.8	9.9	61.2
	3	81025	38.7	38.8	100.0
	Total	208629	99.7	100.0	
Missing	System	702	.3		
Total		209331	100.0		

MATH Question 34

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	4845	2.3	2.3	2.3
	1	21330	10.2	10.2	12.5
	2	116027	55.4	55.5	68.0
	3	66867	31.9	32.0	100.0
	Total	209069	99.9	100.0	
Missing	System	262	.1		
Total		209331	100.0		

MATH Question 35

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0	11257	5.4	5.4	5.4
	1	11373	5.4	5.5	10.9
	2	34005	16.2	16.3	27.2
	3	151859	72.5	72.8	100.0
	Total	208494	99.6	100.0	
Missing	System	837	.4		
Total		209331	100.0		

Statistics

		MATH Question 26	MATH Question 27	MATH Question 28	MATH Question 29	MATH Question 30
N	Valid	208911	208656	208867	208673	208887
	Missing	420	675	464	658	444
Mean		1.68	1.09	1.07	1.48	1.40
Std. Deviation		.635	.691	.937	.742	.782

Statistics

		MATH Question 31	MATH Question 32	MATH Question 33	MATH Question 34	MATH Question 35
N	Valid	208684	208625	208629	209069	208494
	Missing	647	706	702	262	837
Mean		1.30	1.82	1.57	2.17	2.57
Std. Deviation		.907	1.022	1.279	.697	.824