

2007 Grade 4 Math Item Analysis

Frequency Table

MATH Question 1

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	41	.0	.0	.0
	47	.0	.0	.0
1	3305	1.7	1.7	1.7
2	8599	4.3	4.3	6.0
4	5052	2.5	2.5	8.5
C	182343	91.5	91.5	100.0
Total	199387	100.0	100.0	

MATH Question 2

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	58	.0	.0	.0
	55	.0	.0	.1
1	3506	1.8	1.8	1.8
2	2794	1.4	1.4	3.2
3	6008	3.0	3.0	6.2
D	186966	93.8	93.8	100.0
Total	199387	100.0	100.0	

MATH Question 3

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	53	.0	.0	.0
	85	.0	.0	.1
1	2452	1.2	1.2	1.3
2	9743	4.9	4.9	6.2
4	14616	7.3	7.3	13.5
C	172438	86.5	86.5	100.0
Total	199387	100.0	100.0	

MATH Question 4

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	77	.0	.0	.0
	74	.0	.0	.1
1	864	.4	.4	.5
2	14238	7.1	7.1	7.6
3	2804	1.4	1.4	9.1
D	181330	90.9	90.9	100.0
Total	199387	100.0	100.0	

MATH Question 5

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	115	.1	.1	.1
	99	.0	.0	.1
1	3449	1.7	1.7	1.8
2	11656	5.8	5.8	7.7
3	5109	2.6	2.6	10.2
D	178959	89.8	89.8	100.0
Total	199387	100.0	100.0	

MATH Question 6

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	114	.1	.1	.1
	178	.1	.1	.1
2	13195	6.6	6.6	6.8
3	17904	9.0	9.0	15.7
4	6686	3.4	3.4	19.1
A	161310	80.9	80.9	100.0
Total	199387	100.0	100.0	

MATH Question 7

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	80	.0	.0	.0
	102	.1	.1	.1
1	16854	8.5	8.5	8.5
2	3836	1.9	1.9	10.5
4	5821	2.9	2.9	13.4
C	172694	86.6	86.6	100.0
Total	199387	100.0	100.0	

MATH Question 8

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	99	.0	.0	.0
	102	.1	.1	.1
2	12894	6.5	6.5	6.6
3	8429	4.2	4.2	10.8
4	4679	2.3	2.3	13.1
A	173184	86.9	86.9	100.0
Total	199387	100.0	100.0	

MATH Question 9

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	72	.0	.0	.0
	76	.0	.0	.1
1	22617	11.3	11.3	11.4
2	18077	9.1	9.1	20.5
4	14506	7.3	7.3	27.8
C	144039	72.2	72.2	100.0
Total	199387	100.0	100.0	

MATH Question 10

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	135	.1	.1	.1
	104	.1	.1	.1
1	7638	3.8	3.8	4.0
2	7424	3.7	3.7	7.7
3	27213	13.6	13.6	21.3
D	156873	78.7	78.7	100.0
Total	199387	100.0	100.0	

MATH Question 11

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	50	.0	.0	.0
	190	.1	.1	.1
1	10490	5.3	5.3	5.4
3	14723	7.4	7.4	12.8
4	12840	6.4	6.4	19.2
B	161094	80.8	80.8	100.0
Total	199387	100.0	100.0	

MATH Question 12

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	88	.0	.0	.0
	133	.1	.1	.1
1	4057	2.0	2.0	2.1
2	70758	35.5	35.5	37.6
4	15543	7.8	7.8	45.4
C	108808	54.6	54.6	100.0
Total	199387	100.0	100.0	

MATH Question 13

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	68	.0	.0	.0
	194	.1	.1	.1
1	11402	5.7	5.7	5.8
2	8033	4.0	4.0	9.9
4	7881	4.0	4.0	13.8
C	171809	86.2	86.2	100.0
Total	199387	100.0	100.0	

MATH Question 14

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	84	.0	.0	.0
	181	.1	.1	.1
1	3788	1.9	1.9	2.0
2	21842	11.0	11.0	13.0
3	26480	13.3	13.3	26.3
D	147012	73.7	73.7	100.0
Total	199387	100.0	100.0	

MATH Question 15

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	99	.0	.0	.0
	336	.2	.2	.2
1	17299	8.7	8.7	8.9
2	22519	11.3	11.3	20.2
3	18120	9.1	9.1	29.3
D	141014	70.7	70.7	100.0
Total	199387	100.0	100.0	

MATH Question 16

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	106	.1	.1	.1
	220	.1	.1	.2
2	5125	2.6	2.6	2.7
3	11645	5.8	5.8	8.6
4	8825	4.4	4.4	13.0
A	173466	87.0	87.0	100.0
Total	199387	100.0	100.0	

MATH Question 17

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	141	.1	.1	.1
	211	.1	.1	.2
1	5332	2.7	2.7	2.9
3	7143	3.6	3.6	6.4
4	60159	30.2	30.2	36.6
B	126401	63.4	63.4	100.0
Total	199387	100.0	100.0	

MATH Question 18

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	74	.0	.0	.0
	191	.1	.1	.1
1	25432	12.8	12.8	12.9
3	14973	7.5	7.5	20.4
4	10405	5.2	5.2	25.6
B	148312	74.4	74.4	100.0
Total	199387	100.0	100.0	

MATH Question 19

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	70	.0	.0	.0
	198	.1	.1	.1
1	20636	10.3	10.3	10.5
2	2604	1.3	1.3	11.8
4	2380	1.2	1.2	13.0
C	173499	87.0	87.0	100.0
Total	199387	100.0	100.0	

MATH Question 20

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	82	.0	.0	.0
	139	.1	.1	.1
2	7667	3.8	3.8	4.0
3	12541	6.3	6.3	10.2
4	6092	3.1	3.1	13.3
A	172866	86.7	86.7	100.0
Total	199387	100.0	100.0	

MATH Question 21

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	76	.0	.0	.0
	194	.1	.1	.1
1	45782	23.0	23.0	23.1
3	8729	4.4	4.4	27.5
4	5202	2.6	2.6	30.1
B	139404	69.9	69.9	100.0
Total	199387	100.0	100.0	

MATH Question 22

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	100	.1	.1	.1
	464	.2	.2	.3
1	13942	7.0	7.0	7.3
2	12910	6.5	6.5	13.8
3	21528	10.8	10.8	24.5
D	150443	75.5	75.5	100.0
Total	199387	100.0	100.0	

MATH Question 23

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	149	.1	.1	.1
	349	.2	.2	.2
1	10223	5.1	5.1	5.4
2	28397	14.2	14.2	19.6
3	21181	10.6	10.6	30.2
D	139088	69.8	69.8	100.0
Total	199387	100.0	100.0	

MATH Question 24

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	124	.1	.1	.1
	356	.2	.2	.2
1	8724	4.4	4.4	4.6
3	7788	3.9	3.9	8.5
4	15508	7.8	7.8	16.3
B	166887	83.7	83.7	100.0
Total	199387	100.0	100.0	

MATH Question 25

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	173	.1	.1	.1
	506	.3	.3	.3
1	10043	5.0	5.0	5.4
2	35824	18.0	18.0	23.3
3	17053	8.6	8.6	31.9
D	135788	68.1	68.1	100.0
Total	199387	100.0	100.0	

MATH Question 26

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	96	.0	.0	.0
	459	.2	.2	.3
2	18985	9.5	9.5	9.8
3	19074	9.6	9.6	19.4
4	10140	5.1	5.1	24.5
A	150633	75.5	75.5	100.0
Total	199387	100.0	100.0	

MATH Question 27

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	126	.1	.1	.1
	553	.3	.3	.3
2	12840	6.4	6.4	6.8
3	17770	8.9	8.9	15.7
4	11097	5.6	5.6	21.3
A	157001	78.7	78.7	100.0
Total	199387	100.0	100.0	

MATH Question 28

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	111	.1	.1	.1
	592	.3	.3	.4
1	9600	4.8	4.8	5.2
2	14082	7.1	7.1	12.2
3	47056	23.6	23.6	35.8
D	127946	64.2	64.2	100.0
Total	199387	100.0	100.0	

MATH Question 29

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	81	.0	.0	.0
	802	.4	.4	.4
1	8821	4.4	4.4	4.9
2	7059	3.5	3.5	8.4
4	34101	17.1	17.1	25.5
C	148523	74.5	74.5	100.0
Total	199387	100.0	100.0	

MATH Question 30

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid -	54	.0	.0	.0
	961	.5	.5	.5
1	29639	14.9	14.9	15.4
2	16782	8.4	8.4	23.8
3	12876	6.5	6.5	30.2
D	139075	69.8	69.8	100.0
Total	199387	100.0	100.0	

2007 Grade 4 Math Item Analysis- CR

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
MATH Question 31	199224	0	2	1.60	.701
MATH Question 32	199164	0	3	2.47	.915
MATH Question 33	199096	0	2	1.38	.845
MATH Question 34	198869	0	2	1.36	.832
MATH Question 35	199108	0	2	1.50	.807
MATH Question 36	199051	0	3	1.79	1.002
MATH Question 37	199053	0	2	1.46	.735
MATH Question 38	198857	0	2	1.19	.652
MATH Question 39	198689	0	2	.91	.869
MATH Question 40	199245	0	2	1.69	.686
MATH Question 41	199125	0	2	1.29	.832
MATH Question 42	199204	0	2	1.71	.497
MATH Question 43	199105	0	2	1.39	.752
MATH Question 44	198912	0	2	1.10	.948
MATH Question 45	198672	0	2	1.16	.916
MATH Question 46	199080	0	2	1.17	.824
MATH Question 47	199015	0	3	2.04	1.145
MATH Question 48	198923	0	3	2.49	.770
Valid N (listwise)	196587				