

May 2005 Grade 4 Mathematics (MA) Test

	Raw Score Range 2005	Scale Score Range	Performance Level
MA 4	0-20	448-601	1
	21-38	602-636	2
	39-59	637-677	3
	60-70	678-810	4

The Grade 4 MA test was designed to measure student progress in Mathematics as defined by the New York State Learning Standards. The chart above shows three types of information that can be derived from the test: raw scores, scale scores, and performance levels.

Raw Score

Raw scores are a numerical representation of the number or degree of correct responses.

The raw score is derived by using all multiple-choice and open-ended items on the Grade 4 MA Test. Each multiple choice item is worth 1 point. The value of each open-ended item depends on the number of points in the rubric used to score the item. For instance, if a 4-point rubric is used, the item would be worth 4 points. For the Grade 4 MA Test, the maximum total raw score is 70 points. Raw scores cannot be compared from year to year.

Scale Score

The scale score shows the level of proficiency a student has in Mathematics (e.g., Operations, Measurement, and Mathematical Reasoning). Scale scores were arrived at through a standard setting study conducted with an expert panel of New York State teachers. The Grade 4 MA scale scores use a numerical scale that runs continuously from beginning skills (scale score range of 448-601) to advanced skills (scale score range of 678-810). The scale scores enable comparisons from year to year because the same scale score represents the same level of achievement for the New York State Standards, even if slight changes in the test from year to year cause slight changes in the raw scores.

Performance Level

Students are classified into one of the four levels of performance based on their overall performance on the test as determined by their MA scale scores. A student's performance level provides information on a student's abilities in relation to the New York State MA Learning Standards. New York State teachers established descriptions of the skills and knowledge required in each performance level. These descriptions are part of the individual student score report that is sent to schools by CTB/McGraw-Hill. Below is the raw score-to-scale score conversion table for 2005 4MA.

More information on scoring can be found in the two-part electronic publication, "Determining the Scoring for the Grade 4 and the Grade 8 English Language Arts and Mathematics Examinations": <http://www.emsc.nysed.gov/osa/elintmath.html>

G4MA Raw Score	G4MA Scale Score
0	448
1	448
2	448
3	448
4	448
5	448
6	448
7	506
8	532
9	547
10	557
11	565
12	571
13	577
14	581
15	585
16	589
17	592
18	595
19	598
20	601
21	603
22	606
23	608
24	610
25	612
26	614
27	616
28	618
29	620
30	622

31	623
32	625
33	627
34	628
35	630
36	632
37	633
38	635
39	637
40	638
41	640
42	642
43	643
44	645
45	647
46	648
47	650
48	652
49	654
50	656
51	657
52	659
53	661
54	664
55	666
56	668
57	671
58	673
59	676
60	679
61	683
62	686
63	691
64	696
65	702
66	709
67	718
68	732
69	754
70	810