

# Math Mammoth Grade 5 End of the Year Test

## Instructions

This test is quite long, because it contains lots of questions on all of the major topics covered in *Math Mammoth Grade 5 Complete Curriculum*. Its main purpose is to be a diagnostic test—to find out what the student knows and does not know. The questions are quite basic and do not involve especially difficult word problems.

Since the test is so long, I do not recommend that you have your child/student do it in one sitting. Break it into 3-5 parts and administer them on consecutive days, or perhaps on morning/evening/morning/evening. Use your judgment.

**A calculator is not allowed.**

The test is evaluating the student's ability in the following content areas:

- the four operations with whole numbers
- the concept of an equation; solving simple equations
- divisibility and factoring
- place value and rounding with large numbers
- solving word problems, especially those that involve a fractional part of a quantity
- the concept of a decimal and decimal place value
- all four operations with decimals, to the hundredths
- coordinate grid, drawing a line graph, and finding the average
- fraction addition and subtraction
- equivalent fractions and simplifying fractions
- fraction multiplication
- division of fractions in special cases (a unit fraction divided by a whole number, and a whole number divided by a unit fraction)
- classifying triangles and quadrilaterals
- area and perimeter
- volume of rectangular prisms (boxes)

In order to continue with the *Math Mammoth Grade 6 Complete Worktext*, I recommend that the child gain a score of 80% on this test, and that the teacher or parent review with him any content areas in which he may be weak. The exception to this rule is integers, because they will be reviewed in detail in 6<sup>th</sup> grade. Children scoring between 70% and 80% may also continue with grade 6, depending on the types of errors (careless errors or not remembering something, versus a lack of understanding). Again, use your judgment.

## Grading

My suggestion for points per item is as follows. The total is 171 points. A score of 137 points is 80%.

Question #	Max. points	Student score
<b>The Four Operations</b>		
1	2 points	2
2	6 points	6
3	2 points	2
4	2 points	2
5	2 points	2
6	2 points	2
7	3 points	3
<i>subtotal</i>		19 / 19
<b>Large Numbers</b>		
8	2 points	2
9	1 point	1
10	1 point	1
11	4 points	4
<i>subtotal</i>		8 / 8
<b>Problem Solving</b>		
12	3 points	0
13	3 points	3
14	3 points	0
15	3 points	3
16	3 points	0
17	3 points	3
<i>subtotal</i>		9 / 18
<b>Decimals</b>		
18	4 points	1
19	6 points	6
20	3 points	0
21	3 points	0
22	3 points	3
23	3 points	3
24	9 points	4
25	6 points	0
26	9 points	0
27	3 points	0
28	3 points	0
<i>subtotal</i>		17 / 52

Question #	Max. points	Student score
<b>Graphs</b>		
29	3 points	3
30	2 points	0
31	4 points	3
<i>subtotal</i>		6 / 9
<b>Fractions</b>		
32	3 points	0
33	4 points	0
34	4 points	4
35	2 points	2
36	4 points	3
37	2 points	2
38	5 points	5
39	3 points	0
40	2 points	2
41	4 points	4
42	2 points	0
43	2 points	0
44	4 points	4
<i>subtotal</i>		26 / 41
<b>Geometry</b>		
45	4 points	0
46	4 points	0
47	2 points	0
48	3 points	0
49	3 points	0
50	3 points	0
51	1 point	0
52	4 points	0
<i>subtotal</i>		0 / 24
<b>TOTAL</b>		137 / 171

85 / 171  
50%