

# Math Mammoth Grade 4 End of the Year Test Notes

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

This is to be used as a diagnostic test. Thus, you may even skip those areas and concepts that you already know for sure your student has mastered.

The test does not cover every single concept that is covered in the *Math Mammoth Grade 4 Complete Worktext*, but all the major concepts and ideas are tested here. This test is evaluating the child's ability especially in the following content areas:

- order of operations
- writing large numbers
- estimation
- multi-digit multiplication
- long division
- conversions of measuring units
- measuring length
- area and perimeter
- measuring angles
- concept of mixed numbers
- adding like fractions
- concept of decimals (one or two digits)
- adding decimals with one or two decimal digits
- problem solving

A few of the concepts *not* covered in the test but that are in the Math Mammoth text are: addition, subtraction, and multiplication terminology, rounding, line graphs, bar graphs, time calculations, average, long division with money, geometry vocabulary, comparing fractions, and equivalent fractions - and this list is probably not all-exhaustive.

In order to continue with Math Mammoth Grade 5 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 that are found weak. Children scoring between 70 and 80% may also continue with grade 5, depending on the types of errors (careless errors or not remembering something, vs. lack of understanding). Again, use your judgment.

# Grading

My suggestion for points per item is as follows. The total is 73 points. A score of 59 points is 81%.

Question #	Max. points	Student score
1	6 points	
2	2 points	
3	4 points	
4	3 points	
5	2 points	
6	2 points	
7	2 points	
8	2 points	
9	4 points	
10	9 points	
11	4 points	

Question #	Max. points	Student score
12	2 points	
13	3 points	
14	2 points	
15	2 points	
16	4 points	
17	3 points	
18	3 points	
19	2 points	
20	3 points	
21	6 points	
22	3 points	

---

# End of the Year Test - Grade 4

1. Calculate in the right order.

a.  $768 \div 4 + 193$

b.  $24 \times (1,302 - 499)$

c.  $560,000 + 5,435 + 14,089 - 564$

2. Solve  $3,294 + x = 5,048$ .

3. Solve mentally

a.  $1,200 \div 60 + 4 \times 50$

b.  $(900 + 1,300) \div 11$

4. Mark and Joe shared 280 cards so that Mark had 50 cards more than Joe. How many cards did each one get?

5. Mrs. Wood bought twelve packages of crackers for \$2.06 each and paid her purchase with \$50. What was her change?

6. Write the numbers in normal form.

a. 800 thousand 50

b. 2 million 5 thousand 4 hundred 7

7. Mary packs 540 boxes of juice into large boxes.

Each large box can hold 25 boxes of juice. How many large boxes does Mary need to hold all the boxes of juice?

8. If seven meters of rope cost \$6.09,  
how much do five meters cost?

9. Estimate the cost of buying five notebooks for \$0.87 each and two pencil cases for \$1.24 each. Then find the exact cost, and the error of your estimation.

10. Convert between the different measuring units.

a.	b.	c.
63 oz = _____ lb _____ oz	3 L 700 ml = _____ ml	2 m 8 cm = _____ cm
210 mm = _____ cm	5 gal = _____ fl. oz.	3,080 g = _____ kg _____ g
61 in = _____ ft _____ in.	140 yd = _____ ft	2 T 400 lb = _____ lb

11. Measure the lines below to the nearest eighth of an inch and also in centimeters and millimeters.



a. \_\_\_\_\_ in. or \_\_\_\_\_ cm \_\_\_\_\_ mm



b. \_\_\_\_\_ in. or \_\_\_\_\_ cm \_\_\_\_\_ mm

12. What is the perimeter of a square with 5 ft 9 in sides?

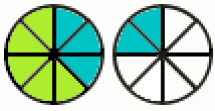
13. What is the area and the perimeter of a rectangle whose one side is 42 m and the other side is half that long?

14. Write a division problem with a quotient of 6 and a dividend of 360. What is the divisor?

15. Is 399 divisible by 7? Explain why or why not.

16. Draw here any obtuse triangle, and measure its angles.

17. **a.** Write an addition sentence to match the picture.



**b.** Draw a picture that illustrates the addition  $\frac{3}{4} + \frac{3}{4} = 1\frac{2}{4}$ .

18. Add and subtract. Give your final answer as a whole number or as a mixed number if possible.

**a.**  $\frac{4}{5} + \frac{3}{5} =$

**b.**  $1\frac{1}{6} - \frac{2}{6} =$

**c.**  $3\frac{6}{8} + 2\frac{2}{8} =$

19. Find  $\frac{2}{7}$  of \$539.

20. Elena used  $\frac{3}{5}$  of her \$25 to buy a sweater.  
How many dollars did she have left?

21. Add and subtract mentally.

**a.**  $0.2 + 0.9 =$

**b.**  $0.24 + 0.1 =$

**c.**  $1 - 0.04 =$

**d.**  $2.5 - 1.2 - 0.4 =$

**e.**  $0.07 + 0.75 =$

**f.**  $8.01 - 4 =$

22. Mark on the number line the following decimals: 0.6 0.55 0.08 0.27 0.80 0.93

