math MAMMOTH

Math Mammoth Grade 4 Review Workbook

- **A**ddition, subtraction, patterns, and graphs
- **L**arge numbers and place value
- **M**ulti-digit multiplication
- **T**ime and measuring
- **D**ivision
- **G**eometry
- **F**ractions
- **D**ecimals

By Maria Miller

Math Mammoth Grade 4 Review Workbook

Contents

Introduction 5

Addition, Subtraction, Patterns, and Graphs Review 6
Addition, Subtraction, Patterns, and Graphs Test 8
Large Numbers and Place Value Review 9
Large Numbers and Place Value Test 11
Mixed Review 1 12
Mixed Review 2 14
Multi-Digit Multiplication Review 16
Multi-Digit Multiplication Test 19
Mixed Review 3 21
Mixed Review 4 23
Time and Measuring Review 25
Time and Measuring Test 27
Mixed Review 5 28
Mixed Review 6 30
Division Review 32
Division Test 35
Mixed Review 7 37
Mixed Review 8 39
Geometry Review 41
Geometry Test 45
Mixed Review 9 47
Mixed Review 10 49
Fractions Review 51
Fractions Test 53
Mixed Review 11 54
Mixed Review 12 56

Sample worksheet from
www.mathmammoth.com

Decimals Review 59
Decimals Test 61
Mixed Review 13 62
Mixed Review 14 64
End-of-the-year Test 67

Answers 84

Sample worksheet from
www.mathmammoth.com

Introduction

This workbook is intended to give students a thorough review of 4th grade math. It has both topical as well as mixed (spiral) review worksheets, and includes both topical tests and a comprehensive end-of-the-year test. The tests can also be used as review worksheets, instead of tests.

You can use this workbook for example to prepare students who are going into fifth grade, or give fourth grade students extra practice with a variety of problems.

The topics reviewed in this workbook are:

- Addition, subtraction, patterns, and graphs
- Large numbers and place value
- Multi-digit multiplication
- Time and measuring
- Division
- Geometry
- Fractions and decimals

In addition to the topical reviews and tests, the workbook also contains over two dozen cumulative (spiral) review pages.

The content for these is taken from *Math Mammoth Grade 4 Complete Curriculum*, so naturally this workbook works especially well to prepare students for grade 5 in Math Mammoth. However, the content follows a typical study for grade 4, so this workbook can be used no matter which math curriculum you follow.

Please note this book does not contain lessons or instruction for the topics. It is not intended for initial teaching. It also will not work if the student needs to completely re-study these topics (the student has not learned the topics at all). For that purpose, please consider Math Mammoth Grade 4 Complete Curriculum, which has all the necessary instruction and lessons.

I wish you success with math teaching!
Maria Miller, the author

Sample worksheet from
www.mathmammoth.com

(This page intentionally left blank.)

Sample worksheet from
www.mathmammoth.com

Large Numbers and Place Value Test

1. Write the numbers.

a. 400 thousand 40	**b.** 4 thousand 5 hundred 60 thousand	**c.** 200 thousand 7 ones 6 tens

2. What is the value of the digit 8 in the following numbers?

a. 2**8**0,340 **b**. 294,4**8**7

3. Round the numbers to the underlined place value unit.

a. 516,764 ≈	**b.** 293,477 ≈	**c.** 196,045 ≈

4. Calculate 225,390 – 17,692.

5. Write the numbers in order from the smallest to the greatest.

39,294 3,294 93,294 39,244 399,295

6. The king of Sookiland has 24,000 gold coins in each of his three treasuries, plus an additional 1,382 coins in a chest. The king of Nootyland owns a total of 78,600 gold coins. Which king has more coins? How many more?

7. A charitable organization has one million dollars from which they are giving $1,000-grants to students. How many students can receive the grant?

Sample worksheet from
www.mathmammoth.com

(This page intentionally left blank.)

Sample worksheet from
www.mathmammoth.com

Multi-Digit Multiplication Review

1. Multiply.

a. 400 × 3 = _____ 9 × 20 = _____	**b.** 70 × 60 = _____ 300 × 11 = _____	**c.** 90 × 900 = _____ 100 × 400 = _____

2. Find the missing factor. Think of how many zeros you need.

a. _____ × 50 = 4,000 _____ × 50 = 350	**b.** 70 × _____ = 280 7 × _____= 2,800	**c.** _____ × 40 = 12,000 _____ × 800 = 64,000

3. Solve the equations.

a. 4 × 30 = ? × 3 ? = _____	**b.** y × 500 = 250 × 4 y = _____	**c.** 450 + 350 = △ × 20 △ = _____

4. Solve this problem using **estimation**.
If you earn $515 weekly, in how many weeks will you have earned more than $4,000?

5. Multiply. Estimate the answer on the line.

a. 7 × 48 ≈_____	**b.** 6 × 813 ≈_____	**c.** 21 × 18 ≈_____	**d.** 4 × 5,903 ≈_____

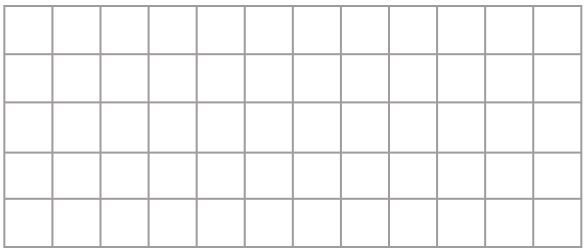
Sample worksheet from
www.mathmammoth.com

6. Fill in the table.

Roses	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Price	**$0.90**							

7. Calculate in the right order.

$2 \times 98 - 8 \times 17$



8. Solve.

a. $(1{,}500 - 1{,}000) \times 4 =$ _____

b. $(76 + 34) \times 2 \times 0 =$ _____

c. $8 \times 2 \times (3 + 2) =$ _____

d. $200 \times (500 - 400) =$ _____

9. Draw a many-part rectangle to illustrate the multiplications. You do not have to measure the sides to make them exactly so long, a sketch is good enough.

a. 8×24

= ___ × _____ + ___ × ___

= _____

b.

$$\begin{array}{r} 35 \\ \times\ 39 \\ \hline \\ + \\ \hline \end{array}$$

10. Solve. Write a number sentence for each one, not just the answer.

a. A store owner bought 50 boxes of shirts, with 20 shirts in each box, and each shirt costs $2. What was his total bill?

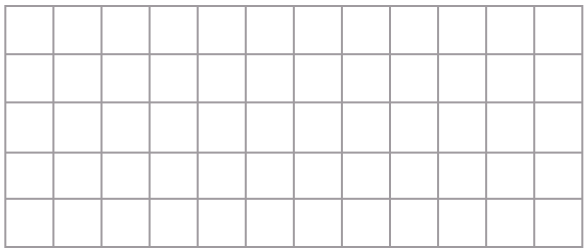
_____

_____

b. Dad bought 8 boxes of nails for $2.35 a box. What was his change from $20?

_____

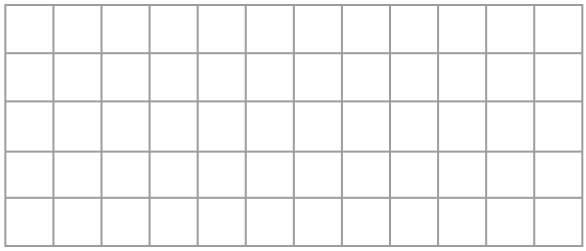
_____



c. Charlene bought five ice cream cones for $1.50 each. Now she has $12.50 left. How much did she have originally?

_____

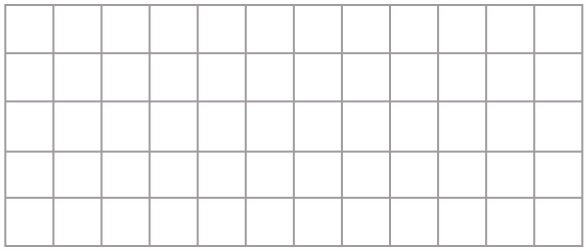
_____



d. Jan bought six coconuts for $1.28 each and seven pineapples for $2.15 each. What was her total bill?

_____

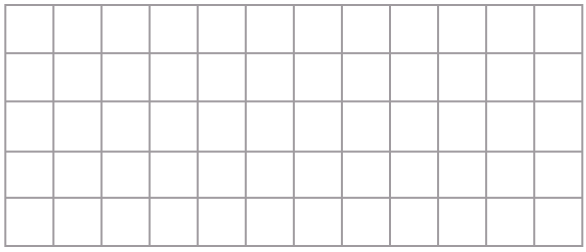
_____



e. A huge roll of wrapping paper costs $45 but it was discounted by $8. How much do five rolls cost?

_____

_____



f. A gazelle can run nine miles in 15 minutes. How far could it run in 10 minutes?

_____

_____

Sample worksheet from
www.mathmammoth.com

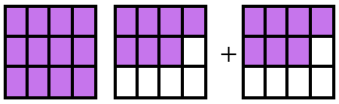
(This page intentionally left blank.)

Sample worksheet from
www.mathmammoth.com

Mixed Review 13

1. Write an addition sentence. Give your answer as a mixed number.

a.

b. 

2. Multiply.

a. $10 \times \frac{5}{12}$

b. $\frac{4}{9} \times 7$

c. $\frac{14}{100} \times 3$

3. Find all the factors of the numbers.

a. 38

b. 56

c. 19

4. Multiply. Estimate the answer on the line.

a. 6×292

$\approx$_____

b. 11×402

$\approx$_____

c. $3 \times 2{,}364$

$\approx$_____

d. $7 \times 8{,}827$

$\approx$_____

5. Solve the equations.

a. $90 \times \triangle = 8{,}100$

$\triangle$ = _____

b. $500 \times \underline{?} = 2 \times 1{,}000$

$\underline{?}$ = _____

c. $4 \times 3 \times y = 360$

y = _____

Sample worksheet from
www.mathmammoth.com

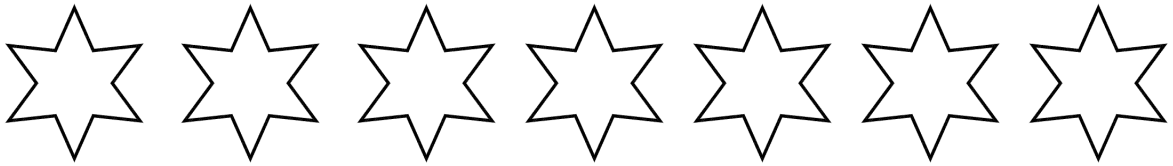
6. Change the 24-hour times to the a.m. / p.m. times.

a. 14:30 _____ : _____	**b.** 19:15 _____ : _____	**c.** 22:45 _____ : _____	**d.** 7:50 _____ : _____

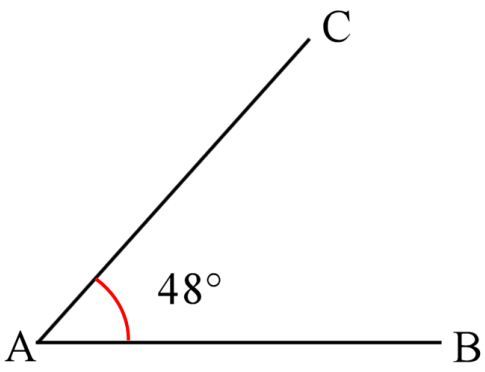
7. Mom promised to pay one-fourth of the price of a new bicycle for Terry, which costs $95.00. Draw a bar diagram about the situation, and find how much Mom and Terry each paid.

8. Jack has paid for 3/5 of the $600-computer he bought. How many dollars does he still have to pay?

9. Draw as many different symmetry lines as you can into this shape.



10. **a.** Draw a 35° angle using B as vertex, and AB as one side of the angle. If you do it right, the other side of your angle will intersect (cross) the line segment AC so that you will get a triangle.



b. Measure the third angle of the triangle.

Sample worksheet from
www.mathmammoth.com