

math

MAMMOTH

Skills Review Workbook

- The four operations
- Large numbers and the calculator
- Problem solving
- Decimals
- Graphing and statistics
- Fractions: add and subtract
- Fractions: multiply and divide
- Geometry



Sample worksheet from

www.mathmammoth.com

By Maria Miller

Grade 5

Copyright 2018 Maria Miller

EDITION 9/2018

All rights reserved. No part of this book may be reproduced or transmitted in any form or by any means, electronic or mechanical, or by any information storage and retrieval system, without permission in writing from the author.

Copying permission: For having purchased this book, the copyright owner grants to the teacher-purchaser a limited permission to reproduce this material for use with his or her students. In other words, the teacher-purchaser MAY make copies of the pages, or an electronic copy of the PDF file, and provide them at no cost to the students he or she is actually teaching, but not to students of other teachers. This permission also extends to the spouse of the purchaser, for the purpose of providing copies for the children in the same family. Sharing the file with anyone else, whether via the Internet or other media, is strictly prohibited.

No permission is granted for resale of the material.

The copyright holder also grants permission to the purchaser to make electronic copies of the material for back-up purposes.

If you have other needs, such as licensing for a school or tutoring center, please contact the author at <https://www.MathMammoth.com/contact.php>

Contents

Foreword	6
Chapter 1: The Four Operations	
Skills Review 1	7
Skills Review 2	8
Skills Review 3	9
Skills Review 4	10
Skills Review 5	11
Skills Review 6	12
Skills Review 7	13
Skills Review 8	14
Skills Review 9	15
Skills Review 10	16
Skills Review 11	17
Skills Review 12	18
Chapter 2: Large Numbers and the Calculator	
Skills Review 13	19
Skills Review 14	20
Skills Review 15	21
Skills Review 16	22
Skills Review 17	23
Skills Review 18	24
Skills Review 19	25
Chapter 3: Problem Solving	
Skills Review 20	26
Skills Review 21	27
Skills Review 22	28

Chapter 4: Decimals

Skills Review 23	29
Skills Review 24	30
Skills Review 25	31
Skills Review 26	32
Skills Review 27	33
Skills Review 28	34
Skills Review 29	35
Skills Review 30	36
Skills Review 31	37
Skills Review 32	38
Skills Review 33	39
Skills Review 34	40
Skills Review 35	41
Skills Review 36	42
Skills Review 37	43
Skills Review 38	44
Skills Review 39	45
Skills Review 40	46
Skills Review 41	47
Skills Review 42	48
Skills Review 43	49

Chapter 5: Graphing and Statistics

Skills Review 44	50
Skills Review 45	51
Skills Review 46	52
Skills Review 47	53
Skills Review 48	54
Skills Review 49	55
Skills Review 50	56
Skills Review 51	57
Skills Review 52	58

Chapter 6: Fractions: Add and Subtract

Skills Review 53	59
Skills Review 54	60
Skills Review 55	61
Skills Review 56	62
Skills Review 57	63
Skills Review 58	64
Skills Review 59	65
Skills Review 60	66
Skills Review 61	67
Skills Review 62	68

Chapter 7: Fractions: Multiply and Divide

Skills Review 63	69
Skills Review 64	70
Skills Review 65	71
Skills Review 66	72
Skills Review 67	73
Skills Review 68	74
Skills Review 69	75
Skills Review 70	76
Skills Review 71	77
Skills Review 72	78
Skills Review 73	79

Chapter 8: Geometry

Skills Review 74	80
Skills Review 75	81
Skills Review 76	82
Skills Review 77	83
Skills Review 78	84
Skills Review 79	86
Skills Review 80	87
Skills Review 81	88
Skills Review 82	89
Skills Review 83	90

Foreword

Math Mammoth Grade 5 Skills Review Workbook has been created to complement the lessons in *Math Mammoth Grade 5* complete curriculum. It gives the students practice in reviewing what they have already studied, so the concepts and skills will become more established in their memory.

These review worksheets are designed to provide a spiral review of the concepts in the curriculum. This means that after a concept or skill has been studied in the main curriculum, it is then reviewed repeatedly over time in several different worksheets of this book.

This book is divided into chapters, according to the corresponding chapters in the *Math Mammoth Grade 5* curriculum. You can choose exactly when to use the worksheets within the chapter, and how many of them to use. Not all students need all of these worksheets to help them keep their math skills fresh, so please vary the amount of worksheets you assign your student(s) according to their needs.

Each worksheet is designed to be one page, and includes a variety of exercises in a fun way without becoming too long and tedious.

The answer key is available as a separate book.

I wish you success in teaching math!

Maria Miller, the author

Skills Review 1

1. Continue the patterns for the next five numbers.

a. 920, 850, 780, 710, ...

b. 540, 750, 960, 1170, ...

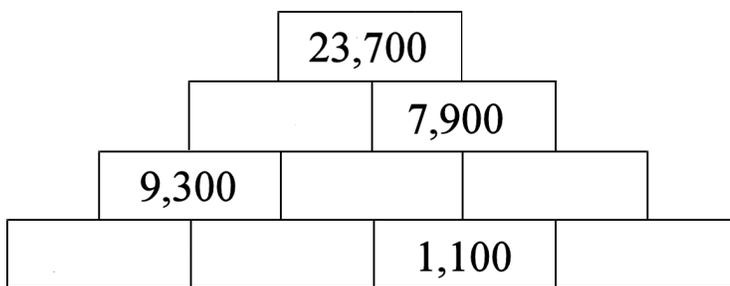
2. Find a number to fit in the box so the equation is true.

$$\text{a. } 90 = (\square + 22) \times 3$$

$$\text{b. } 4 \times 12 = 9 \times 6 - \square$$

$$\text{c. } 5 + 2 = (30 - \square) \div 4$$

3. Find the missing numbers. The sum of any two adjacent (side-by-side) numbers is the number directly above them.



4. Multiply in any order. Try to find the *easiest* order!

$$\text{a. } 20 \times 6 \times 8 = \underline{\quad}$$

$$\text{b. } 9 \times 3 \times 10 = \underline{\quad}$$

$$\text{c. } 12 \times 7 \times 5 = \underline{\quad}$$

$$\text{d. } 13 \times 4 \times 50 = \underline{\quad}$$

5. Cheryl bought a dress for \$18 and a jacket for \$26, and now she has \$49 left. How much money did she have originally?

6. Carl earned \$28 raking leaves, and Ethan earned twice as much as Carl. How much did the two earn in total?

7. Write an addition equation *and* a subtraction equation to match the bar model. Then solve for x .

<hr/> <hr/> <hr/> <hr/> <hr/>	<table border="1" style="border-collapse: collapse; margin: auto;"> <tr> <td style="padding: 5px;">x</td> <td style="padding: 5px;">3,762</td> </tr> <tr> <td colspan="2" style="text-align: center;"> \longleftrightarrow 9,348 \longleftrightarrow </td> </tr> </table>	x	3,762	\longleftrightarrow 9,348 \longleftrightarrow	
x	3,762				
\longleftrightarrow 9,348 \longleftrightarrow					

Skills Review 2

1. Write an expression or an equation to match each written sentence.

a. The product of 75 and 9 is 675.	b. The quotient of 18,000 and 600
---	--

2. Aaron is packing 137 souvenirs in boxes of six. How many boxes does he need?

3. Solve in the right order. You can enclose the operation to be done first in a “bubble” or a “cloud.”

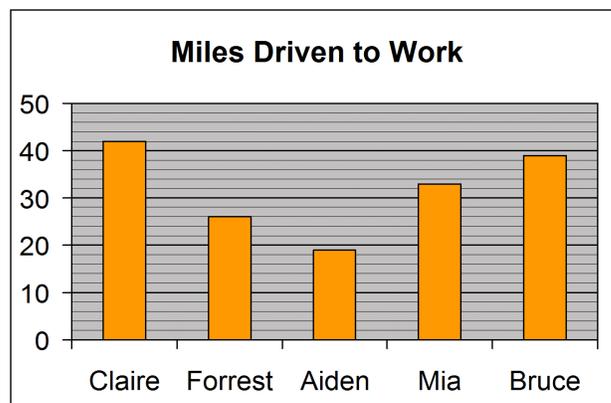
a. $24 \div 4 \times 2 =$ _____	b. $(5 + 7) \times 3 + 8 =$ _____
c. $95 + 5 - 6 \times 4 =$ _____	d. $18 + 5 \times (16 - 9) =$ _____

4. Write an expression to match each written sentence.

a. The difference of 23 and 9 is added to 37.	b. The sum of 6 and 70 is subtracted from 200.
--	---

5. The bar graph shows how many miles some people drive one-way to work each day.

- a.** How many more miles round-trip does Bruce drive than Forrest?
- b.** How many fewer miles round-trip does Aiden drive than Mia?
- c.** How many miles round-trip does Claire drive during a five-day workweek?



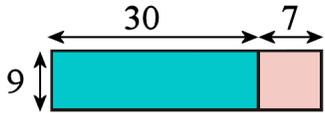
6. Solve in your head.

a. $432 +$ _____ $= 500$	b. $324 +$ _____ $+ 200 = 638$	c. _____ $- 39 = 45$
---------------------------------	---------------------------------------	-----------------------------

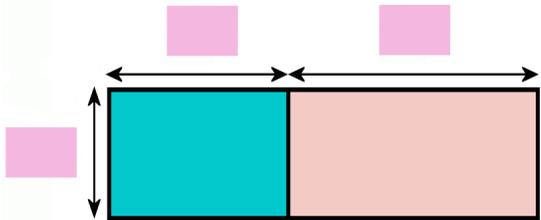
Skills Review 3

1. Fill in the missing parts, thinking of the area of the whole rectangle, or of the partial rectangles.

a. $9 \times 37 = 9 \times \underline{\hspace{2cm}} + 9 \times \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$



b. $4 \times (6 + 10)$
 $= \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} + \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$
 $= \underline{\hspace{2cm}}$



2. Complete the cross-number puzzle.

Across:

Down:

a. Sum of 393 and 138

a. 9×25

b. Quotient of 72 and 4

b. Sum of 5,300 and 825

c. $1000 \div 50$

c. $800 \div 40$

d. $700 - 110$

d. Difference of 1000 and 66

e. $3500 + 4900$

e. Product of 20 and 40

f. $40000 \div 80$

a.					
		b.		b.	e.
a.					
				c.	
		d.	d.		
					f.
		e.			

3. Equation or expression? (Do not solve these.)

a. $6t = 360$

b. $5 + 30 \times 420 \div 7$

c. $23 = x + y$

4. Complete. Note that the operation used is not always the same.

$\begin{matrix} + \boxed{600} & - \boxed{\hspace{2cm}} & + \boxed{\hspace{2cm}} & \div \boxed{\hspace{2cm}} & \times \boxed{\hspace{2cm}} & - \boxed{\hspace{2cm}} \\ \curvearrowright & \curvearrowright & \curvearrowright & \curvearrowright & \curvearrowright & \curvearrowright \\ 2800 & 3400 & 2600 & 3200 & 80 & 1600 & 900 \end{matrix}$

Skills Review 4

1. Multiply. Also, estimate and check that your final answer is reasonably close to your estimate.

<p>a. Estimate: $7 \times 4,652$</p> <p>\approx _____</p> <p>Calculate exactly:</p> $\begin{array}{r} 4\ 6\ 5\ 2 \\ \times \quad 7 \\ \hline \end{array}$	<p>b. Estimate: $9 \times 81,739$</p> <p>\approx _____</p> <p>Calculate exactly:</p> $\begin{array}{r} 8\ 1\ 7\ 3\ 9 \\ \times \quad 9 \\ \hline \end{array}$
---	---

2. Starting at the top, find your way through the maze by coloring the number that is **one-half** of the previous number.

248,000	310,000	228,000	284,000
123,000	114,000	150,000	141,000
57,000	60,500	74,000	119,500
30,200	28,500	36,900	58,600
14,175	15,125	14,250	18,400
7,060	8,010	7,120	7,125

3. Add or subtract mentally.

a. $700 + 4000 + 300 + 8,500 =$ _____

b. $900 - 9 - 60 - 300 =$ _____

c. $600 + 500 + 7,000 + 3,200 =$ _____

d. $500 - 30 - 200 - 6 =$ _____

4. Farmer Daniels bought 12 goats for \$245 each. How much did he pay in total?

5. Michael shared equally with two other people the cost of a five-day car rental. The car rental cost \$60 per day. How much did Michael pay?

6. Which expression matches the problem? Also, solve the problem.

Joy bought an ice cream cake for \$26 and two jugs of fruit punch for \$5 each, and shared the cost evenly with her two sisters. What was Joy's share of the cost?

(1) $\$26 + \$5 \div 3 + 2$

(2) $\$26 + 2 \times \$5 \div 3$

(3) $(2 \times \$5 + \$26) \div 3$

(4) $\$26 \times 2 + \$5 \div 3$

Skills Review 5

1. First estimate. Then multiply. Lastly, check that your final answer is reasonably close to your estimate.

<p>a. Estimate:</p> <p>_____</p> <p>_____</p> $\begin{array}{r} 57038 \\ \times \quad 94 \\ \hline \end{array}$	<p>b. Estimate:</p> <p>_____</p> <p>_____</p> $\begin{array}{r} 4196 \\ \times \quad 623 \\ \hline \end{array}$	<p>c. Estimate:</p> <p>_____</p> <p>_____</p> $\begin{array}{r} 3275 \\ \times \quad 816 \\ \hline \end{array}$
--	--	--

2. Solve for the unknown M.

a. $7 \times M = 420$	b. $M \div 9 = 6$	c. $96 \div M = 8$
------------------------------	--------------------------	---------------------------

3. Write an expression *or* an equation to match each written sentence.

a. The sum of 34 and s is 150.	b. The difference of y and 57
---	--

4. Draw a bar model to represent the equation. Then solve it.

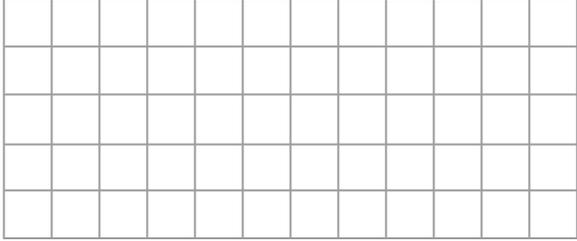
$R \div 6 = 250$

Skills Review 6

1. Divide in your head.

a. $\frac{4872}{8} =$	b. $\frac{3216}{4} =$	c. $\frac{5460}{6} =$
------------------------------	------------------------------	------------------------------

2. Estimate first, then find the exact result.

<p>Farmer Green saved up \$7,000 to start an orchard. He bought 35 apple trees that cost \$29 each, and 18 cherry trees that cost \$56 each. How much money did he have left?</p> <p>Estimate: _____</p> <p>Exact: _____</p>	
--	--

3. Multiply.

a. $\begin{array}{r} \$76.05 \\ \times \quad 3 \\ \hline \end{array}$	b. $\begin{array}{r} \$48.29 \\ \times \quad 6 \\ \hline \end{array}$	c. $\begin{array}{r} \$139.58 \\ \times \quad 8 \\ \hline \end{array}$	d. $\begin{array}{r} \$906.73 \\ \times \quad 4 \\ \hline \end{array}$
--	--	---	---

4. Mr. Jamison divided \$1,876 equally among his four children. How much money did each one receive?

5. Jamie, Eric, and Layla were collecting tin cans to recycle. Jamie collected 48 cans, Eric collected three times as many as Jamie, and Layla collected half as many as Eric. How many cans did they collect in total?

6. Multiply mentally.

a. $300 \times 500 =$	b. $40 \times 210 =$
c. $550 \times 60 =$	d. $2,000 \times 800 =$

Skills Review 7

1. Divide. First write a multiplication table for the divisor. Check the answer by multiplying.

a.

Table of 16:

$2 \times 16 =$

$3 \times 16 =$

$4 \times 16 =$

$5 \times 16 =$

$6 \times 16 =$

$7 \times 16 =$

$8 \times 16 =$

$9 \times 16 =$

16)	6640			

2. Write a division equation where the dividend is 540, the quotient is 6, and the divisor is unknown. Use a letter for the unknown. Then find the value of the unknown.

3. Continue the pattern for the next five numbers.

2050, 1900, 1750, 1600, ...

4. Write a single expression using numbers and operations for each problem, not just the answer!

a. Kevin bought a gallon of milk for \$3.50, four pounds of rice that cost \$1.25 a pound, and butter for \$4.75. How much change did he receive from \$20?

b. Beach towels that used to cost \$15 each were discounted by \$2. Marlene bought some and paid \$78. How many towels did she buy?

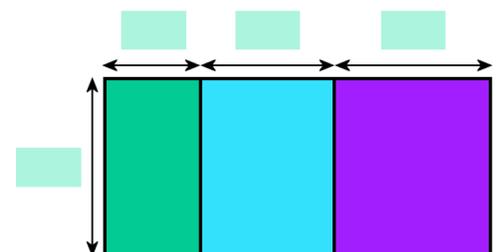
5. Fill in the missing parts, thinking of the area of the whole rectangle, or of the partial rectangles.

$14 \times (5 + 7 + 9)$

$= \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad}$

$= \underline{\quad} + \underline{\quad} + \underline{\quad}$

$= \underline{\quad}$



Skills Review 8

1. Solve these simple equations.

a. $s \times 3 = 240$

$s =$ _____

b. $\frac{x}{6} = 7$

$x =$ _____

c. $500 - y = 90$

$y =$ _____

2. Divide. Use the space on the left to write a multiplication table of the divisor. Lastly check.

	$\begin{array}{r} \overline{52)8573} \end{array}$	
--	---	--

3. Mom bought 32 apples. She used $\frac{3}{4}$ of them to make pies. How many apples did she have left?

4. First estimate the total cost by rounding the price. Then find the exact cost.

a. Emma bought four clocks for \$27.45 each. What was the total cost?

Estimate: _____

b. It costs \$58.60 to rent a car for one day. How much would it cost to rent one for 12 days?

Estimate: _____
