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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, ...

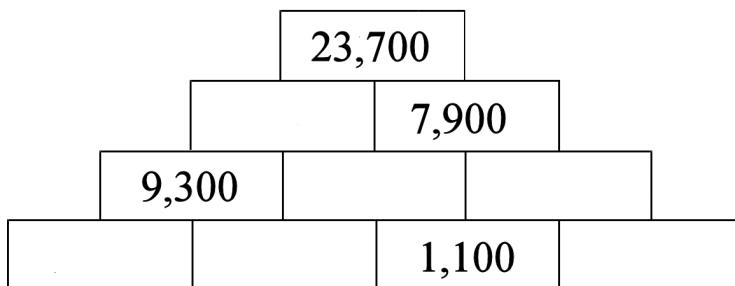
2. Find a number to fit in the box so the equation is true.

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

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

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

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 style="border: none; border-top: 1px solid black;"/> <hr style="border: none; border-top: 1px solid black;"/> <hr style="border: none; border-top: 1px solid black;"/> <hr style="border: none; border-top: 1px solid black;"/>	<table border="1" style="border-collapse: collapse; margin: auto;"> <tr> <td style="width: 50px; height: 20px; background-color: #d9e1f2; text-align: center;">x</td> <td style="width: 100px; height: 20px; background-color: #d9e1f2; text-align: center;">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. $24 \div 4 \times 2 = \underline{\hspace{2cm}}$

b. $(5 + 7) \times 3 + 8 = \underline{\hspace{2cm}}$

c. $95 + 5 - 6 \times 4 = \underline{\hspace{2cm}}$

d. $18 + 5 \times (16 - 9) = \underline{\hspace{2cm}}$

4. Write an expression to match each written sentence.

a. The difference of 23 and 9 is added to 37.

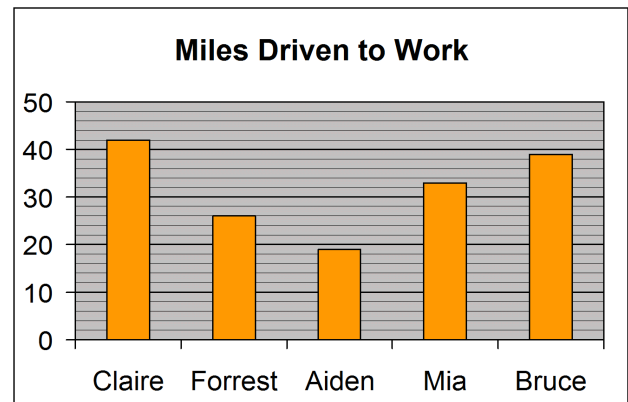
b. The sum of 6 and 70 is subtracted from 200.

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. $432 + \underline{\hspace{1cm}} = 500$

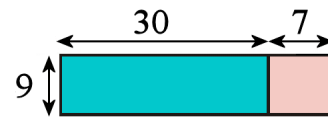
b. $324 + \underline{\hspace{1cm}} + 200 = 638$

c. $\underline{\hspace{1cm}} - 39 = 45$

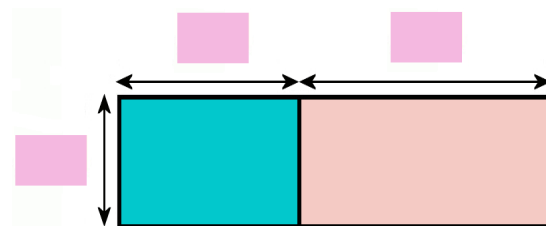
Skills Review 3

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

a. $9 \times 37 = 9 \times \underline{\hspace{1cm}} + 9 \times \underline{\hspace{1cm}}$
 $= \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$



b. $4 \times (6 + 10)$
 $= \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} + \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$
 $= \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$
 $= \underline{\hspace{1cm}}$



2. Complete the cross-number puzzle.

Across:

a. Sum of 393 and 138

b. Quotient of 72 and 4

c. $1000 \div 50$

d. $700 - 110$

e. $3500 + 4900$

Down:

a. 9×25

b. Sum of 5,300 and 825

c. $800 \div 40$

d. Difference of 1000 and 66

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.

$+$ 600	$-$ 	$+$ 	\div 	\times 	$-$
2800	3400	2600	3200	80	1600
				1600	900

Skills Review 4

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

a. Estimate: $7 \times 4,652$

\approx _____

Calculate exactly:

$$\begin{array}{r} 4\ 6\ 5\ 2 \\ \times \quad 7 \\ \hline \end{array}$$

b. Estimate: $9 \times 81,739$

\approx _____

Calculate exactly:

$$\begin{array}{r} 8\ 1\ 7\ 3\ 9 \\ \times \quad 9 \\ \hline \end{array}$$

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. Multiply.

<p>a.</p> $\begin{array}{r} 17095 \\ \times \quad 42 \\ \hline \end{array}$	<p>b.</p> $\begin{array}{r} 6837 \\ \times \quad 56 \\ \hline \end{array}$	<p>c.</p> $\begin{array}{r} 24971 \\ \times \quad 38 \\ \hline \end{array}$
--	---	--

2. Solve for the unknown M.

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

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

<p>a. The sum of 34 and s is 150.</p>	<p>b. The difference of y and 57</p>
---	--

4. Continue the pattern for the next five numbers.

2050, 1900, 1750, 1600, ...

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

<p>$R \div 6 = 250$</p>

Skills Review 6

1. Divide in your head.

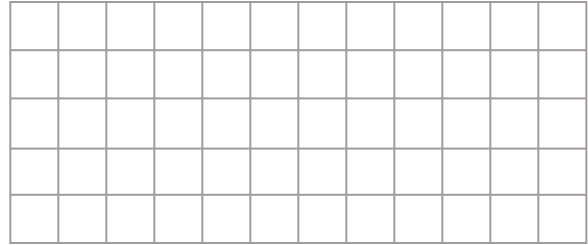
$$\text{a. } \frac{4872}{8} =$$

$$\text{b. } \frac{3216}{4} =$$

$$\text{c. } \frac{5460}{6} =$$

2. Estimate first, then find the exact result.

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?



Estimate: _____

Exact: _____

3. Multiply.

$$\text{a. } \begin{array}{r} \$76.05 \\ \times \quad 3 \\ \hline \end{array}$$

$$\text{b. } \begin{array}{r} \$48.29 \\ \times \quad 6 \\ \hline \end{array}$$

$$\text{c. } \begin{array}{r} \$139.58 \\ \times \quad 8 \\ \hline \end{array}$$

$$\text{d. } \begin{array}{r} \$906.73 \\ \times \quad 4 \\ \hline \end{array}$$

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.

$$\text{a. } 300 \times 500 =$$

$$\text{b. } 40 \times 210 =$$

$$\text{c. } 550 \times 60 =$$

$$\text{d. } 2,000 \times 80 =$$

Skills Review 7

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

a.

Table of 16: $2 \times 16 =$ $3 \times 16 =$ $4 \times 16 =$ $5 \times 16 =$ $6 \times 16 =$ $7 \times 16 =$ $8 \times 16 =$ $9 \times 16 =$	<table border="1" style="border-collapse: collapse; margin: auto;"> <tr> <td style="padding: 5px;">16</td> <td style="padding: 5px;">$)$</td> <td style="padding: 5px;">6</td> <td style="padding: 5px;">6</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">0</td> </tr> <tr><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td></tr> <tr><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td></tr> <tr><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td></tr> <tr><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td></tr> <tr><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td></tr> <tr><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td></tr> <tr><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td></tr> <tr><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td></tr> <tr><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td><td style="padding: 5px;"> </td></tr> </table>	16	$)$	6	6	4	0																																																						
16	$)$	6	6	4	0																																																								

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. 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?

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

$14 \times (5 + 7 + 9)$ $= \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad} + \underline{\quad} \times \underline{\quad}$ $= \underline{\quad} + \underline{\quad} + \underline{\quad}$ $= \underline{\quad}$	
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Skills Review 8

1. Solve these simple equations.

a. $s \times 3 = 240$ $s =$ _____	b. $\frac{x}{6} = 7$ $x =$ _____	c. $500 - y = 90$ $y =$ _____
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2. Divide. Use the space on the left to write a multiplication table of the divisor. Lastly check.

	$52 \overline{)8573}$	
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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: _____ <div style="border: 1px solid gray; width: 100%; height: 100%; display: flex; flex-wrap: wrap;"> <div style="width: 50%; height: 50%;"></div> <div style="width: 50%; height: 50%;"></div> <div style="width: 50%; height: 50%;"></div> <div style="width: 50%; height: 50%;"></div> </div>	b. It costs \$58.60 to rent a car for one day. How much would it cost to rent one for 12 days? Estimate: _____ <div style="border: 1px solid gray; width: 100%; height: 100%; display: flex; flex-wrap: wrap;"> <div style="width: 50%; height: 50%;"></div> <div style="width: 50%; height: 50%;"></div> <div style="width: 50%; height: 50%;"></div> <div style="width: 50%; height: 50%;"></div> </div>
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