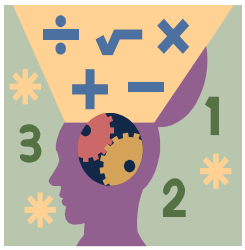
Name:_____ Section: _____



Homework

Happy Thanksgiving Scholars and Parents. We will be reviewing Chapter 6 (*Multiply Decimals*) and taking the Chapter 6 test this week. Scholars will understand how multiply decimals. Please complete homework daily based on the schedule provided below in preparation for the test**.** Failure to complete homework or bring packet to class will result in points deducted**.** Scholars will complete the Chapter 7 Test on Thursday November 17, covering 6.1-6.4

Reminders

Please have your child complete the challenge in Sumdog. It is designed to provide practice with multiplication of decimals.

Extra Practice

Additional practice for the daily lesson is available on Archie. To access the worksheets, please have your child login into Archie. Click on Resources, select courses, then My Courses. From there, you will see a drop down menu of each class. Go to American Math and click on Resources. There you will see worksheets for each section in the chapter.

Notes

Completed homework packets should be uploaded or turned in on **Friday November 18th**. Students must prove and show all their work. Scholars should use a separate sheet of paper if they need additional space. Failure to show work or packets submitted after the due date will result in a lower grade. Please feel free to contact me with any questions or concerns at natalie.roman@archimedean.org.

Monday	November 14	Enrich 6.3 and Reteach 6.2
Tuesday	November 15	Enrich 6.1 and Practice 6.4
Wednesday	November 16	Skill S33 and Reteach 6.4
Thursday	November 17	No Homework
Friday	November 18	No Homework

Monday November 14	Tuesday November 15	Wednesday November 16	Thursday November 17	Friday November 18

Multiply and Compare

Write $<$, $>$, or $=$ in the circle to make each comparison statement true.

1 $0.6 \times 0.05 \bigcirc 0.03$

2 $0.72 \bigcirc 0.9 \times 0.08$

3 $0.3 \times 0.3 \bigcirc 0.06$

4 $\$0.20 \bigcirc 0.4 \times \$0.50$

5 $0.8 \times 0.06 \bigcirc 0.48$

6 $0.3 \times 0.09 \bigcirc 0.039$

7 $0.8 \times 0.03 \bigcirc 0.06 \times 0.4$

8 $0.05 \times 0.9 \bigcirc 0.07 \times 0.6$

9 $0.3 \times 0.12 \bigcirc 0.4 \times 0.09$

10 $0.2 \times 0.19 \bigcirc 0.8 \times 0.05$

11 Write Math **Explain** how you completed Exercise 10.

Name _____

Multiply Decimals

Multiply. 9.3×5.27

Step 1 Multiply as with whole numbers.

$$\begin{array}{r} {\scriptstyle 2\,6} \\ {\scriptstyle 2} \\ 527 \\ \times\ \ 93 \\ \hline 1{,}581 \\ +\ 47{,}430 \\ \hline 49{,}011 \end{array}$$

Step 2 Add the number of decimal places in the factors to place the decimal point in the product.

$$\begin{array}{rl} 5.27 \leftarrow & \underline{2}\ \text{decimal places} \\ \times\ \ 9.3 \leftarrow & +\ \underline{1}\ \text{decimal place} \\ \hline 1{,}581 & \\ +\ 47{,}430 & \\ \hline 49.011 \leftarrow & \underline{3}\ \text{decimal places} \end{array}$$

So, $9.3 \times 5.27 =$ **49.011**.

Place the decimal point in the product.

1 $\begin{array}{r} 1.6 \\ \times\ 0.7 \\ \hline 1\ 12 \end{array}$

2 $\begin{array}{r} 14.2 \\ \times\ 7.6 \\ \hline 107\ 92 \end{array}$

3 $\begin{array}{r} 3.59 \\ \times\ 4.8 \\ \hline 17\ 232 \end{array}$

Find the product.

4 $\begin{array}{r} 5.7 \\ \times\ 0.8 \\ \hline \end{array}$

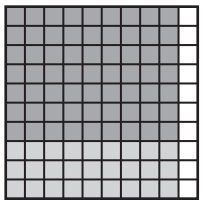
5 $\begin{array}{r} 35.1 \\ \times\ 8.4 \\ \hline \end{array}$

6 $\begin{array}{r} 2.19 \\ \times\ 6.3 \\ \hline \end{array}$

Backward Decimal Multiplication

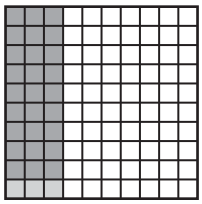
Write the multiplication equation that is represented by the model. Each equation should include the factors and their product.

1



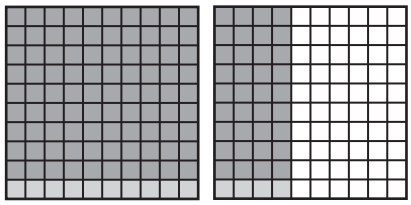
_____

2



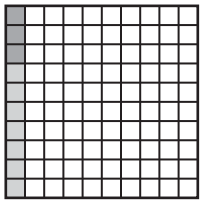
_____

3



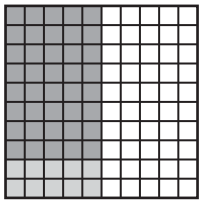
_____

4



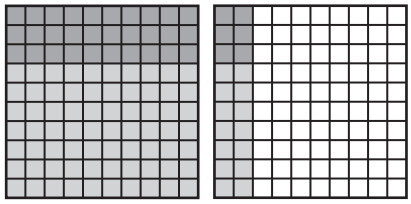
_____

5



_____

6



_____

7 Write Math In Exercise 6, explain how you found the multiplication equation that the model represents.

_____

_____

_____

_____

_____

8 **Stretch Your Thinking** How can you use decimal squares to represent the product 0×0.7? What is the product?

_____

_____

_____

_____

Name _____

Practice
6.4

Problem Solving: Multiple-Step Problems

Write and answer the hidden question. Then solve.

1. Gloria talked on her cell phone for 320 minutes the first month, 243 minutes the second month, and 489 minutes the third month. Her payment package does not allow her to pay per minute; she can only buy packages. If she has to pay $25 for every 200 minutes, how much did she pay for the first three months?

2. Each can of paint will cover 450 tiles. Augustin is painting 300 tiles in his bathroom, 675 in his kitchen, and 100 in his hallway. How many cans of paint does he need to buy?

3. The sum of three different numbers is 18. If every number is a prime number, what are the three numbers?

4. You earn $3 an hour as a waitress. After working 3 hours, you earn $12, $5, and $7 in tips. How much money did you earn in total? Explain how you found your answer.

Name _____

MTSS RtI

SKILL S33

Algebra • Multiplication Properties

OBJECTIVE Understand the properties of multiplication.

You can use multiplication properties to help you solve multiplication problems.

A Commutative Property of Multiplication

You can multiply factors in any order without changing the product.

Write the unknown factor.

$4 \times 8 = 8 \times$ _____

B Associative Property of Multiplication

When multiplying three or more factors, any two of the factors can be multiplied first.

Write the unknown factors.

(_____ $\times$ 6) $\times$ 7 = 4 $\times$ (_____ $\times$ 7)

C Identity Property of Multiplication

The product of any number and one equals that number.

Write each product.

$9 \times 1 =$ _____ $\quad\quad$ $1 \times 15 =$ _____

D Zero Property of Multiplication

The product of any number and 0 is 0.

Write each product.

$9 \times 0 =$ _____ $\quad\quad$ $0 \times 15 =$ _____

Try This!

Use the multiplication properties to find the unknown factor.

1. $3 \times 7 = 7 \times$ _____

2. $(3 \times 8) \times$ _____ $= 3 \times (8 \times 4)$

3. $72 =$ _____ $\times 1$

4. $52 \times$ _____ $= 0$

Apply Properties of Multiplication to Decimals

Properties of operations are characteristics of the operations that are always true.

Property	Examples
Commutative Property of Multiplication	$6.4 \times 5.24 = 5.24 \times 6.4$
Associative Property of Multiplication	$6.2 \times (7.4 \times 2.1) = (6.2 \times 7.4) \times 2.1$
Distributive Property	$8.1 \times (2.3 + 4.52) = (8.1 \times 2.3) + (8.1 \times 4.25)$
Identity Property of Multiplication	$9.736 \times 1 = 9.736$
Zero Property of Multiplication	$2.513 \times 0 = 0$

Use properties to find $3 \times 4.5 \times 2.25$

$3 \times 4.5 \times 2.25 = 4.5 \times$ 3 $\times 2.25$ Use the Commutative Property of Multiplication to reorder the addends.

$= 4.5 \times (3 \times 2.25)$ Use the Associative Property of Multiplication to group the addends.

$= 4.5 \times$ 6.75 Use mental math to add.

$=$ 30.38

Use properties to find the product.

1 $2.5 \times 6.21 \times 3$ _____

2 $6.3 \times 9.36 \times 0$ _____

3 $4.25 \times (6.4 + 0.3)$ _____

Complete the equation, and tell which property you used.

4 $3\ (20 + 1.2) = (3 \times \_\_\_) + (3 \times 1.2)$ _____

5 $\_\_\_\_ \times 1 = 15.6$ _____