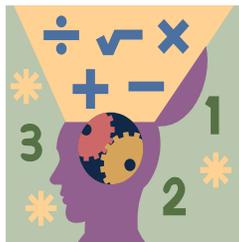


Name: \_\_\_\_\_ Section: \_\_\_\_\_



### Homework

Greetings Scholar and Parents. Hope you are all comfortably settled into the new year. This week we will be working on **Chapter 5 & 6: Multiply decimals**.. Remember to check **CINEMATH** for reviews! Your quiz is on the 27<sup>th</sup> this week.

### Extra Practice – OPTIONAL THIS WEEK

Additional practice for the daily lessons is available on IXL. To access extra practice, please have your child login into IXL. Under the **“FROM YOUR TEACHER”** section, scholars will find Teacher Assigned Lessons. From there, you will see a list of lessons reinforcing the daily skills.

- Multiply by 0.1 or 0.01.
- Multiply a decimal by a one-digit whole number.
- Multiply a decimal by a two-digit whole number using area models.
- Multiply decimals and whole numbers: word problems.
- Multiply two decimals: products up to thousandths.
- Multiply three or more numbers, including decimals.

### Notes

**Completed homework packets should be uploaded or turned in on Sunday September 29<sup>th</sup>, 2024.** Students must prove and show all their work in the provide space. 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. If a scholar struggles with a lesson, they can review the daily lesson on HMH. Please feel free to contact me with any questions or concerns at [peter.vanegas@archimedean.org](mailto:peter.vanegas@archimedean.org).

<u>Monday</u>	September 23 <sup>rd</sup>	– 5.1
<u>Tuesday</u>	September 24 <sup>th</sup>	– 5.3 & 5.4
<u>Wednesday</u>	September 25 <sup>th</sup>	– 6.2
<u>Thursday</u>	September 26 <sup>th</sup>	– Submit review worksheet. 6.3
<u>Friday</u>	September 27 <sup>th</sup>	– <b>QUIZ DAY, Complete Packet.</b>

# Understand Decimal Multiplication Patterns

Go Online

Interactive Examples

Complete the pattern.

1.  $2.07 \times 1 = \underline{2.07}$

$2.07 \times 10 = \underline{20.7}$

$2.07 \times 100 = \underline{207}$

$2.07 \times 1,000 = \underline{2,070}$

2.  $1 \times 30 = \underline{\hspace{2cm}}$

$0.1 \times 30 = \underline{\hspace{2cm}}$

$0.01 \times 30 = \underline{\hspace{2cm}}$

3.  $1 \times 0.23 = \underline{\hspace{2cm}}$

$10 \times 0.23 = \underline{\hspace{2cm}}$

$100 \times 0.23 = \underline{\hspace{2cm}}$

$1,000 \times 0.23 = \underline{\hspace{2cm}}$

4.  $390 \times 1 = \underline{\hspace{2cm}}$

$390 \times 0.1 = \underline{\hspace{2cm}}$

$390 \times 0.01 = \underline{\hspace{2cm}}$

5.  $1 \times 5 = \underline{\hspace{2cm}}$

$0.1 \times 5 = \underline{\hspace{2cm}}$

$0.01 \times 5 = \underline{\hspace{2cm}}$

6.  $1 \times 9,670 = \underline{\hspace{2cm}}$

$0.1 \times 9,670 = \underline{\hspace{2cm}}$

$0.01 \times 9,670 = \underline{\hspace{2cm}}$

7.  $874 \times 1 = \underline{\hspace{2cm}}$

$874 \times 10 = \underline{\hspace{2cm}}$

$874 \times 100 = \underline{\hspace{2cm}}$

$874 \times 1,000 = \underline{\hspace{2cm}}$

8.  $1 \times 10 = \underline{\hspace{2cm}}$

$10 \times 10 = \underline{\hspace{2cm}}$

$100 \times 10 = \underline{\hspace{2cm}}$

$1,000 \times 10 = \underline{\hspace{2cm}}$

9.  $1 \times 49.32 = \underline{\hspace{2cm}}$

$10 \times 49.32 = \underline{\hspace{2cm}}$

$100 \times 49.32 = \underline{\hspace{2cm}}$

$1,000 \times 49.32 = \underline{\hspace{2cm}}$

## Problem Solving

10. Aylan plants equal-sized squares of sod in a yard. Each square has an area of 6 square feet. Aylan plants a total of 1,000 squares in a yard. What is the total area of the squares of sod?

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11. Three friends are selling items at a bake sale. Ms. May makes \$23.25 selling bread. Ms. Inez sells gift baskets and makes 100 times as much as Ms. May. Ms. Jo sells pies and makes one tenth of the money Ms. Inez makes. How much money does each friend make?

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## Lesson Check

- 13.** The length of the British steamship Titanic was 882 feet. Porter's history class is building a model of the Titanic. The model is  $\frac{1}{100}$  of the actual length of the ship. How long is the model?
- 14.** Kahil is asked to find  $100 \times 18.72$ . How many places and in which direction should he move the decimal point to get the correct product?

# Multiplication with Decimals and Whole Numbers

Go Online

Interactive Examples

Find the product.

1. 
$$\begin{array}{r} 5.2 \\ \times 4 \\ \hline 20.8 \end{array}$$
 **Think:** The place value of the decimal factor is tenths.

2. 
$$\begin{array}{r} 9.8 \\ \times 6 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 13.02 \\ \times 5 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 8.42 \\ \times 9 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 14.05 \\ \times 7 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 23.82 \\ \times 5 \\ \hline \end{array}$$

11.  $6 \times 0.92$

12.  $9 \times 1.04$

13.  $7 \times 2.18$

14.  $3 \times 19.54$

## Problem Solving

15. A half-dollar coin issued by the United States Mint measures 30.61 millimeters across. Mikk has 9 half-dollar coins. He lines them up edge to edge in a row. What is the total length of the row of half-dollar coins?
- 

16. One pound of grapes costs \$3.49. Linda buys exactly 3 pounds of grapes. How much will the grapes cost?
-

# Multiply Using Expanded Form

Go Online

Interactive Examples

Draw a model to find the product.

1.  $37 \times 9.5 = \underline{\quad 351.5 \quad}$

	9	0.5
30	270	15
7	63	3.5

2.  $84 \times 0.24 = \underline{\hspace{2cm}}$

Find the product.

3.  $13 \times 0.53 = \underline{\hspace{2cm}}$

4.  $27 \times 89.5 = \underline{\hspace{2cm}}$

5.  $32 \times 12.71 = \underline{\hspace{2cm}}$

6.  $17 \times 0.52 = \underline{\hspace{2cm}}$

7.  $23 \times 59.8 = \underline{\hspace{2cm}}$

8.  $61 \times 15.98 = \underline{\hspace{2cm}}$

## Problem Solving

9. An object that weighs one pound on the moon will weigh about 6.02 pounds on Earth. Suppose a moon rock weighs 11 pounds on the moon. How much will the same rock weigh on Earth?

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10. Tessa is on the track team. For practice and exercise, she runs 2.25 miles each day. At the end of 14 days, how many total miles will Tessa have run?

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## Lesson Check

14. Sue buys material to make a costume. She buys 1.75 yards of red material. She buys 1.2 times as many yards of blue material. How many yards of blue material does Sue buy?
15. Last week Juan worked 20.5 hours. This week he works 1.5 times as many hours as he did last week. How many hours does Juan work this week?

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# Multiply Decimals with Zeros in the Product

Go Online

Interactive Examples

Find the product.

$$\begin{array}{r} 1. \quad 0.07 \\ \times 0.2 \\ \hline 0.014 \end{array}$$

*(A wavy arrow points to the zero in the product.)*

$$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 2. \quad 0.3 \\ \times 0.1 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 0.05 \\ \times 0.8 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 0.08 \\ \times 0.3 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 0.06 \\ \times 0.7 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 0.2 \\ \times 0.4 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 0.05 \\ \times 0.4 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 0.08 \\ \times 0.8 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad \$0.90 \\ \times 0.1 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 0.02 \\ \times 0.3 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 0.09 \\ \times 0.5 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad \$0.05 \\ \times 0.2 \\ \hline \end{array}$$

## Problem Solving

13. A beaker contains 0.5 liter of a solution. Jordan uses 0.08 of the solution for an experiment. How much solution does Jordan use?
14. A certain type of nuts is on sale at \$0.35 per pound. Tamara buys 0.2 pound of nuts. How much will the nuts cost?

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15.  **WRITE** *Math* Explain how you write products when there are not enough digits in the product to place the decimal point.

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## Lesson Check

16. Liam multiplies 0.06 and 0.5. What product should he record?

17. What is the product of 0.4 and 0.09?