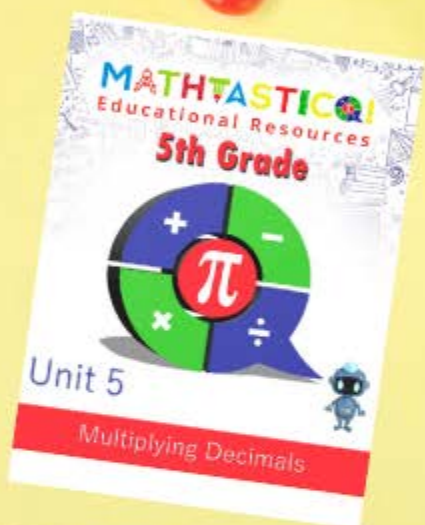


# MATH BUNDLE!

## 5th Grade Unit 5



**5.10 UNIT 5: MULTIPLYING DECIMALS** *Guided Practice*

**GUIDED PRACTICE**  
Represent the product  $0.7 \times 0.2$  using the hundredths grid below.

A 100-square grid represents a whole. One square will represent 0.01. One row of 10 squares will represent 0.1. Shade the 14 squares that represent  $0.7 \times 0.2$ .

Next, shade the 14 squares that represent 0.14.

Finally, shade the shaded parts together. The portion of the grid that is shaded is the product. One 10 square is shaded. The product is 0.14.

We can use another area model to represent multiplication. Use an area model to represent  $0.7 \times 0.2$ .

0.7	0.2	
0.70	0.20	
0.70	0.20	0.14

Thinking:  $0.7 \times 0.2 = 0.14$

$0.7 \times 0.2 = 0.14$   
 $0.70 \times 0.20 = 0.140$   
 $0.70 \times 0.20 = 0.140$

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**5.10 UNIT 5: MULTIPLYING DECIMALS** *Games*

**Around the Block**

This game is for two players. You will need a die, a different colored set of counters for each player, and a game board. The game board is on the next page.

- The players will roll the die to determine who will go first. The player with the higher number gets the first turn.
- Each player will place their counter at the START. Players will take turns rolling the die and moving their counter around the board. They will skip the number when they landed and try to find the representative in the circle.
- If there is no number on the circle, place a counter on it.
- If there is already a number on it, it will be the next player's turn.
- If you land on a zero, you lose your counter on any number.
- The game will continue until all the circles have been covered. The player with the greatest number of counters on the board wins the game.

"We can think of our addition as the product you want!"

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**5.10 UNIT 5: MULTIPLYING DECIMALS** *Games*

**SPIN BUILDING**

1. Spinners for ten tennis balls. Each ball weighs 1.00 ounce, as shown below.

1.50	1.75	1.90	1.50	1.75	1.90
------	------	------	------	------	------

What is the total weight of Macy's tennis balls in ounces?

2. On a track, a runner ran 2 laps every week. Each lap is 0.42 kilometers long. What is the total length of three miles in kilometers?

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**5.10 UNIT 5: MULTIPLYING DECIMALS** *Games*

**EXEC. BUILDING**

1. Michelle buys 12 apples for \$0.47 each. She calculated the total amount using the expression below.

$$(12 \times \$0.45) + (3 \times \$0.47)$$

How much money did Michelle have to pay?

2. Liam received a distance of 2.75 miles every day on his bike. He used the expression below to calculate the total distance he covered on the bike in two weeks.

$$(14 \times 2 \times 2.75)$$

How many miles did Liam cover in two weeks?

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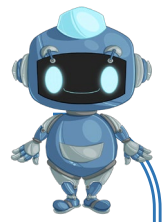
- GAMES
- PRE-ASSESSMENTS
- GUIDED PRACTICE
- HOMEWORK LESSONS
- INDEPENDENT PRACTICE
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- ASSESSMENT
- SPIRAL REVIEW



# UNIT 5

## MULTIPLYING DECIMALS

# 5<sup>th</sup> GRADE



### OBJECTIVE/GOAL

Learn how to solve and represent multiplication of decimals with products to the hundredths using objects and pictorial models, including area models. Learn to estimate solutions to mathematical and real-world problems involving multiplication.

### TARGET STANDARD

**5.3D** Can you represent multiplication of decimals with products to the hundredths using objects and pictorial models, including area models?

**5.3E** Can you solve for products of decimals to the hundredths, including situations involving money, using strategies based on place-value understandings, properties of operations, and the relationship to the multiplication of whole numbers?

**5.3A** Can you estimate to determine solutions to mathematical and real-world problems involving addition, subtraction, multiplication, or division?

### VOCABULARY

- Area Model

### QUESTIONS TO GUIDE YOUR THINKING

- How do area models help in understanding the multiplication of decimals?
- What is the first thing that you should do when subtracting decimals?
- What strategies can you use to evaluate the reasonableness of your solution?

### TRACK YOUR ACCOMPLISHMENTS



CHECKPOINT 1



CHECKPOINT 2



CHECKPOINT 3



UNIT ASSESSMENT



<p style="writing-mode: vertical-rl; transform: rotate(180deg);">MONDAY</p>	<p>1. Find the sum.</p> $\begin{array}{r} 10,543,947 \\ + 13,765,039 \\ \hline \end{array}$	<p>2. Find the product.</p> $\begin{array}{r} 6,902 \\ \times \quad 72 \\ \hline \end{array}$	<p>3. Find the quotient.</p> $25 \overline{)9,820}$
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">TUESDAY</p>	<p>4. Susan ordered 210 boxes of thumb pins. Each box has 48 pins. Which is the best estimate of the total number of thumb pins?</p> <p><input type="text" value="10,000"/>      <input type="text" value="11,000"/></p>	<p>5. List the prime numbers between 80 and 90.</p> <hr/>	<p>6. Which part of the expression below should be performed first?</p> $100 - 2(5 + 4) \div 6$ <hr/>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">WEDNESDAY</p>	<p>7. Simplify the expression below.</p> $25 + [5 \times (10 - 3)]$ <hr/>	<p>8. What is the value of <math>n</math> in the equation below?</p> $n = (72 \div 8) + 25$ <hr/>	<p>9. What is the standard form of eight and five hundred seventy-two thousandths?</p> <hr/>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">THURSDAY</p>	<p>10. Round the decimal to the nearest tenth.</p> $29.129$ <hr/>	<p>11. Arrange the decimals below in order from greatest to least.</p> <p><input type="text" value="8.12"/> _____</p> <p><input type="text" value="8.054"/> _____</p> <p><input type="text" value="8.1"/> _____</p>	<p>12. Dina was 56.4 inches tall. She grew 3.54 inches taller over a year. How tall is she now?</p> <hr/>

## PRE-ASSESSMENT

- 1 A furniture company makes 92 couches each month. How many couches will the company make in 24 months?



- 2 Sandy is finding the product of two numbers.

$$\begin{array}{r} 58 \\ \times 34 \\ \hline \end{array}$$

Which expression can be used to solve the equation above? Shade in your answer.

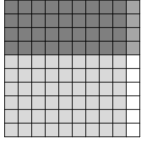
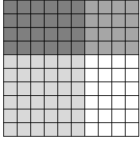
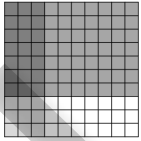
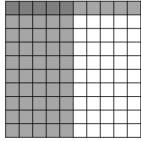
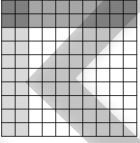
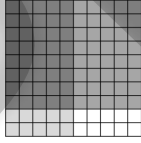

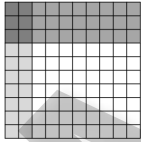
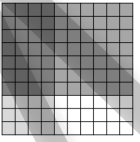
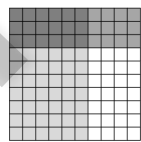

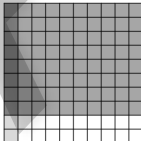
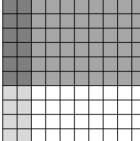
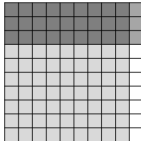
$(58 \times 30) + (58 \times 4)$

$(58 \times 30) - (58 \times 4)$

$(50 \times 30) + (8 \times 4)$

- 3 Mr. Martinez pays \$5,623 every year for his car loan. If his payment lasts for 5 years, how much is his car loan?



START	$0.7 \times 0.1$	$0.2 \times 0.8$	$0.3 \times 0.2$	$0.7 \times 0.4$
$0.3 \times 0.6$				$0.3 \times 0.9$
$0.6 \times 0.2$				
$0.8 \times 0.5$				$0.1 \times 0.5$
				$0.9 \times 0.6$
$0.4 \times 0.6$	$0.2 \times 0.2$	$0.7 \times 0.3$	$0.5 \times 0.5$	$0.4 \times 0.9$



**SKILL BUILDING**

- 3 Michelle buys 15 apples for \$0.47 each. She calculated the total amount using the expression below.

$$(10 \times \$0.45) + (5 \times \$0.47)$$

How much money does Michelle have to pay?



- 4 Liam covered a distance of 2.78 miles every day on his bike. He used the expression below to calculate the total distance he covered on the bike in two weeks.

$$14(2 + 0.78)$$

How much distance did Liam cover in two weeks??



## The Longest Snake Gameboard

11.4	40.28	13.26	18.02	48.23	35.49
70.56	19.43	56.28	63.84	5.1	32.76
24.36	50.92	11.31	0.68	1.68	0.58
13.65	28.56	1.52	11.4	4.35	44.52
29.64	5.1	60.97	12.6	1.82	18.02
32.76	22.78	48.23	76.44	15.37	50.92



## GUIDED PRACTICE

**Isabel has 6 bags of sugar. Each bag has 8.82 ounces of sugar. About how much sugar does Isabel have in all?**

**Round the decimal to the nearest whole number to estimate the answer.**

To estimate the total weight of sugar, we will round the decimals to the nearest whole number to make compatible numbers. So, 8.82 will become 9.

$$\begin{array}{r} 8.82 \\ \times \underline{6} \end{array} \quad \begin{array}{l} \longrightarrow \\ \longrightarrow \end{array} \quad \begin{array}{r} 9 \\ \times \underline{6} \end{array}$$

Next, multiply the numbers. Compare if the actual answer is close to the estimated answer.

<i>Actual Computation</i>	<i>Estimated Computation</i>
$\begin{array}{r} 8.82 \\ \times \underline{6} \\ \hline 52.92 \end{array}$	$\begin{array}{r} 9 \\ \times \underline{6} \\ \hline 54 \end{array}$

If the actual answer is close in value to the estimated answer, then the answer is reasonable.

Isabel has about **54 ounces** of sugar.

The words “approximately” and “about” connotes estimation. We estimate solutions to determine the reasonableness of the answer.

Rounding decimals to the nearest whole number is one of the easiest ways of estimating solutions.

**Estimation** is used to determine the accuracy of the calculation used to solve a problem.



Rounding numbers and using compatible numbers are strategies for estimating solutions.





**SKILL BUILDING**

- 1 Steve purchased three video games for \$18.67 each. About how much did he pay for three video games?

Round the numbers to the nearest ten to estimate the answer.



- 2 Adrian walks 0.87 miles to school every day. About how many miles will he walk in 5 days?

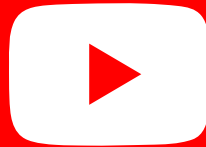
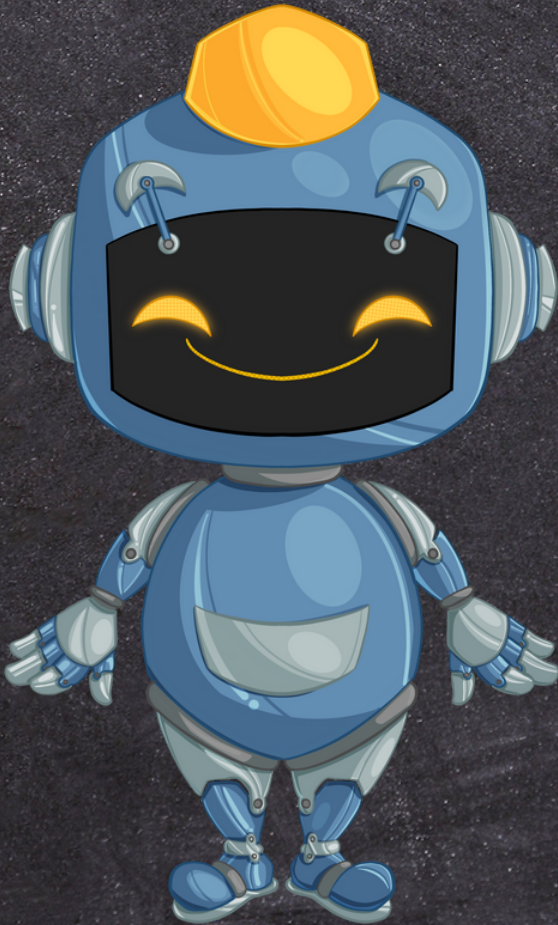
Round the decimal to the nearest tenth to get the answer.



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5.1B	Identifying Rock Resources			
5.1C	Identifying Rock Resources			
5.1D	Identifying Rock Resources			

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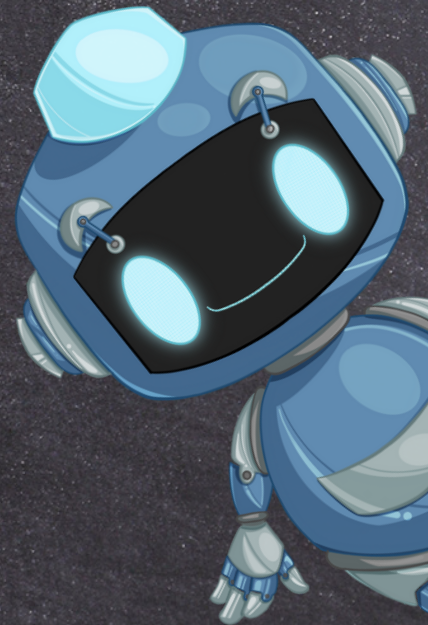
**LEVEL UP SCIENCE™**

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Organisms & Their Environment

TEK	Topic	Answer Key	STAAR 2.0 Activity	Instructional Video
5.8A	Ecological Energy & Matter Cycling			
5.8B	Ecological Energy & Matter Cycling			
5.8C	Ecological Energy & Matter Cycling			
5.8D	Producers, Consumers, Decomposers			

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