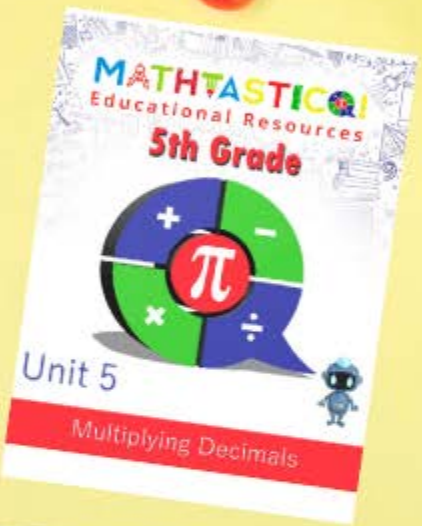
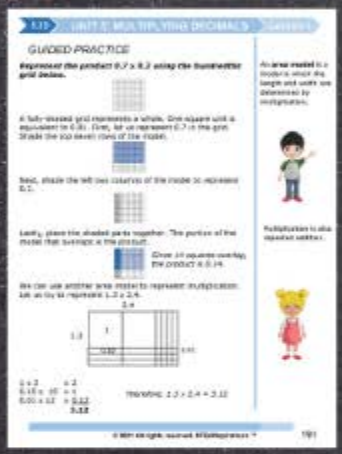
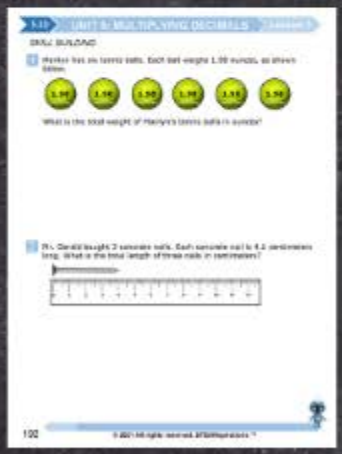
MATH BUNDLE!

5th Grade Unit 5





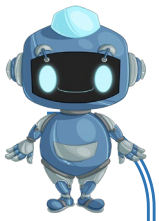


- Games
- Pre-Assessments
- Guided Practice
- Homework Lessons
- Independent Practice
- Checkpoints
- Assessment
- Spiral Review

MATHTASTICO!
Educational Resources

UNIT 5
MULTIPLYING DECIMALS

5th 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.

VOCABULARY

- Area Model

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?

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 ☐

MONDAY	1. Find the sum. 10,543,947 + 13,765,039	2. Find the product. 6,902 x 72	3. Find the quotient. 25)9,820
TUESDAY	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? 10,000 11,000	5. List the prime numbers between 80 and 90. _____	6. Which part of the expression below should be performed first? $100 - 2(5 + 4) \div 6$ _____
WEDNESDAY	7. Simplify the expression below. $25 + [5 \times (10 - 3)]$ _____	8. What is the value of n in the equation below? $n = (72 \div 8) + 25$ _____	9. What is the standard form of eight and five hundred seventy-two thousandths? _____
THURSDAY	10. Round the decimal to the nearest tenth. 29.129 _____	11. Arrange the decimals below in order from greatest to least. 8.12 _____ 8.054 _____ 8.1 _____	12. Dina was 56.4 inches tall. She grew 3.54 inches taller over a year. How tall is she now? _____

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.

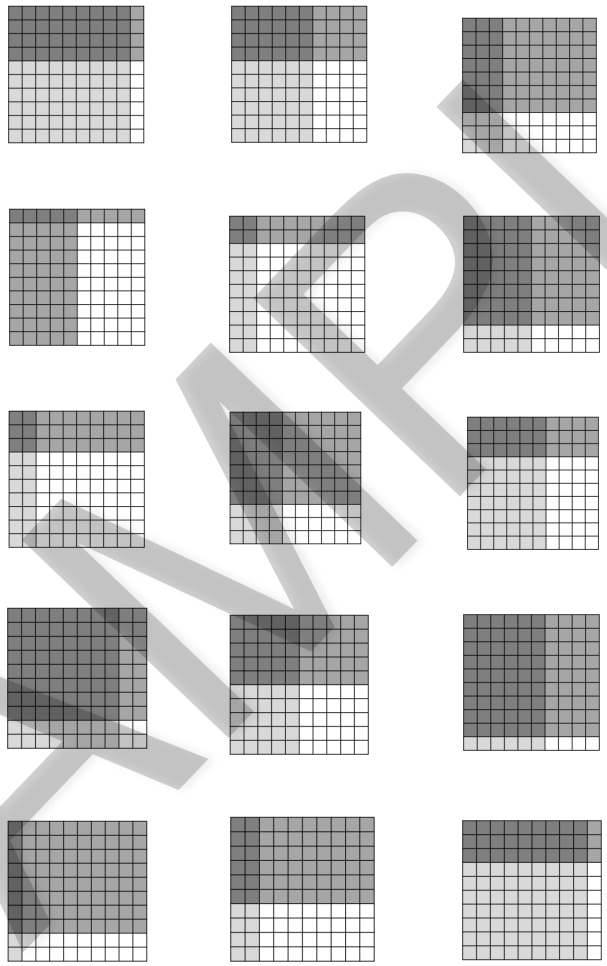
(58 x 30) + (58 x 4)

(58 x 30) – (58 x 4)

(50 x 30) + (8 x 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 x 0.1	0.2 x 0.8	0.3 x 0.2	0.7 x 0.4
0.3 x 0.6				0.3 x 0.9
0.6 x 0.2				★
0.8 x 0.5				0.1 x 0.5
★				0.9 x 0.6
0.4 x 0.6	0.2 x 0.2	0.7 x 0.3	0.5 x 0.5	0.4 x 0.9



SKILL BUILDING

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

(10 x $0.45) + (5 x $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.

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

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

Actual Computation		*Estimated Computation*
8.82	→	9
x 6	→	x 6
52.92	→	54

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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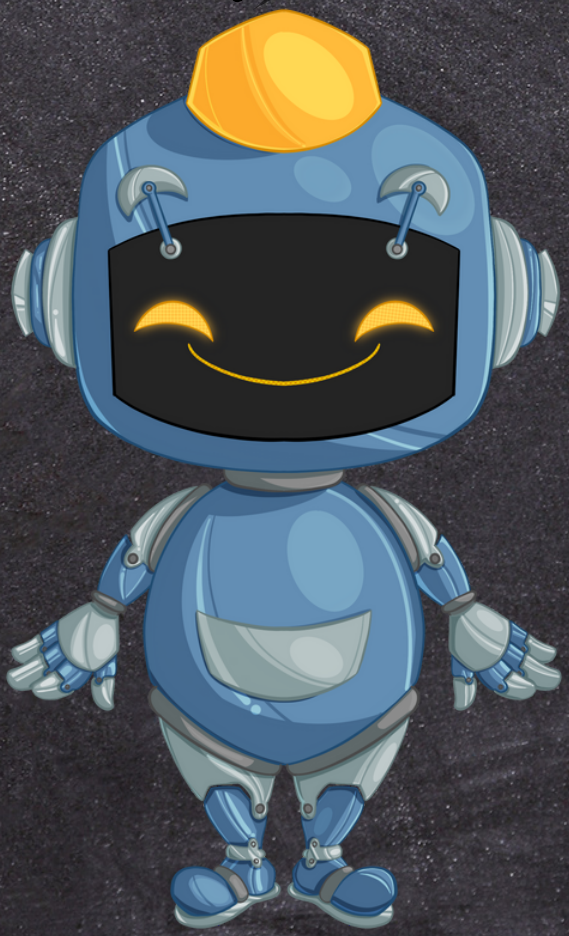

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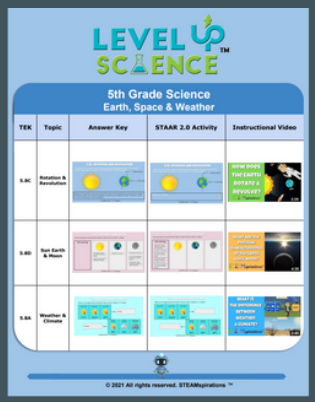

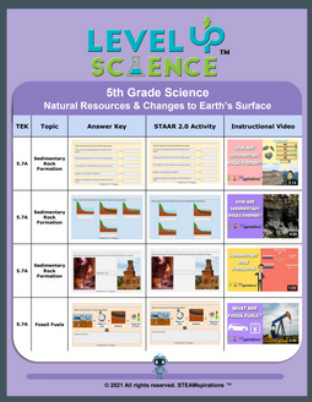

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