

Name: _____

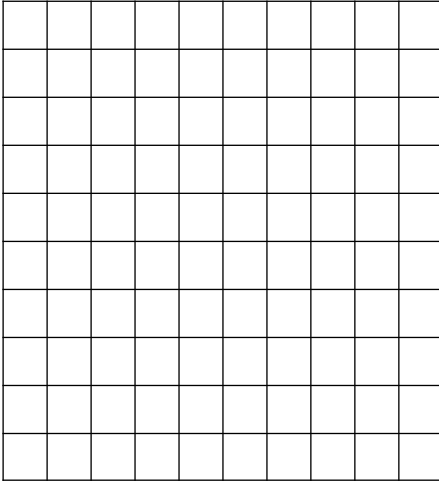
Hour: _____

1-3 Multiplying Decimals

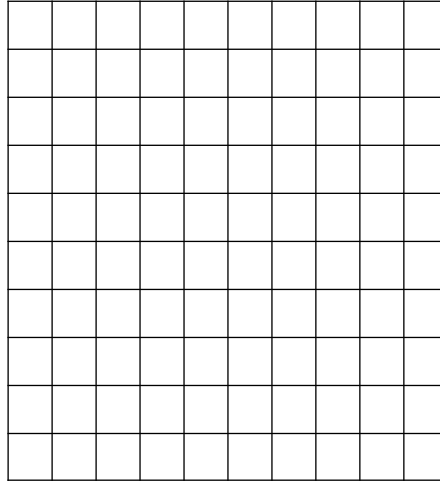
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A. Understanding the concept

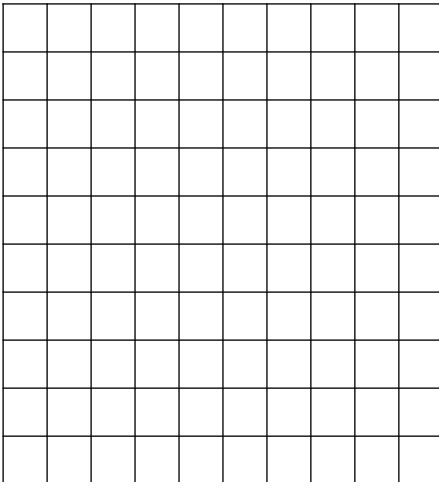
1. Draw the model for 0.2×0.9



2. Draw the model for 0.5×0.3



3. Draw the model for 0.7×0.2



4. For each of the above pictures, show
The calculations used:

1.

2.

3.

B. Steps to multiplying with decimals

1. Write the problem with the # with the most digits on top. (*ignore place value*)
2. Multiply like normal.
3. Add products
4. Count the # of decimal places in each number from the problem. (count from the right)
5. Place the decimal in the answer the same amount of places. (count from the right)

Practice

Show all work. Circle your answer.

1. 0.17×4.2

2. $6.3(0.84)$

3. $8.9 \cdot 3.75$

4. 1.45×2.6

5. 3.4×1.7

6. 0.057×6.8

7. Place a decimal on the right side of the equal sign to make the equation true. Explain your reasoning.
 $3.56 \times 0.63 = 022428$

For problems 8-11, use the bank of properties below to determine the correct response.

Properties Word Bank

Identity Property of Addition

Commutative Property of Addition

Associative Property of Addition

Identity Property of Multiplication

Commutative Property of Multiplication

Associative Property of Multiplication

Zero Property of Multiplication

8. Which property is illustrated by the following statement?
 $(37.8 + 12.4) + 0 = 37.8 + 12.4$

8. _____

9. Which property is illustrated by the following statement?
 $9.4 \times (8.25 \times 3.29) = (9.4 \times 8.25) \times 3.29$

9. _____

10. Which property is illustrated by the following statement?
 $7 \times 4 = 4 \times 7$

10. _____

11. Which property is illustrated below?
 $89.3 \times 62.79 \times 62 \times 0 = 0$

11. _____

12. Do you think that there is a Commutative Property of Division? Why or why not? Give examples.