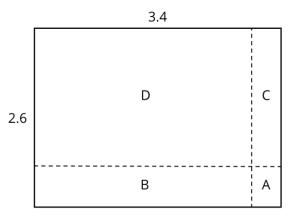
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11.	4 1	111	-

Unit 5, Lesson 7: Using Diagrams to Represent Multiplication

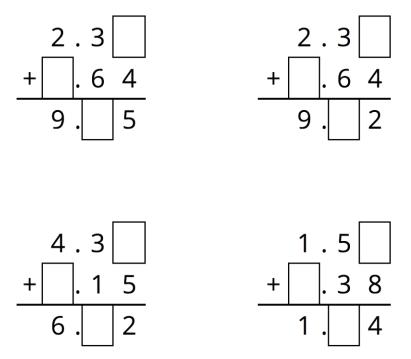
1. Here is a rectangle that has been partitioned into four smaller rectangles.



- 2. For each expression, choose a sub-rectangle whose area, in square units, matches the expression.
 - a. $3 \cdot (0.6)$ b. $(0.4) \cdot 2$ c. $(0.4) \cdot (0.6)$ d. $3 \cdot 2$
- 3. Here is an area diagram that represents $(3.1) \cdot (1.4)$.

3.1 1 A 0.4 B

- a. Find the areas of sub-rectangles A and B.
- b. What is the area of the 3.1 by 1.4 rectangle?
- 4. Draw an area diagram to find $(0.36) \cdot (0.53)$. Label and organize your work so that it can be followed by others.
- 5. Find each product. Show your reasoning.
 - a. (2.5) · (1.4)
 - b. (0.64) · (0.81)
- 6. Complete the calculations so that each shows the correct sum or difference.



- 7. (from Unit 5, Lesson 3)
- 8. Diego bought 12 mini muffins for \$4.20.
 - a. At this rate, how much would Diego pay for 4 mini muffins?
 - b. How many mini muffins could Diego buy with \$3.00? Explain or show your reasoning. If you get stuck, consider using the table.

number of mini muffins	price in dollars
12	4.20

(from Unit 2, Lesson 12)