Lesson 7 Practice Problems

1. Here is a rectangle that has been partitioned into four smaller rectangles.
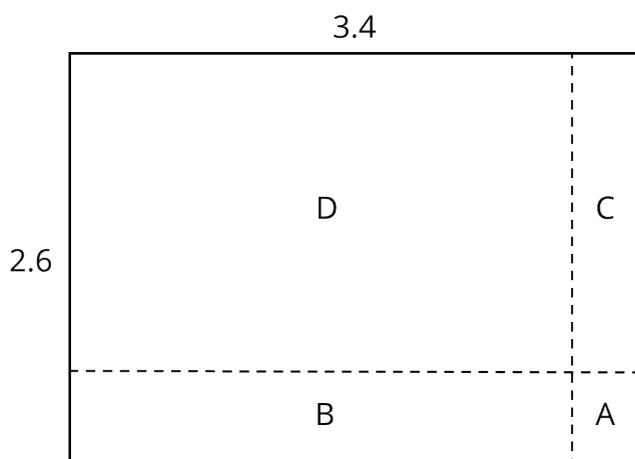
For each expression, choose the sub-rectangle whose area, in square units, matches the expression.

a. $3 \cdot (0.6)$

b. $(0.4) \cdot 2$

c. $(0.4) \cdot (0.6)$

d. $3 \cdot 2$

2. Here is an area diagram that represents $(3.1) \cdot (1.4)$.
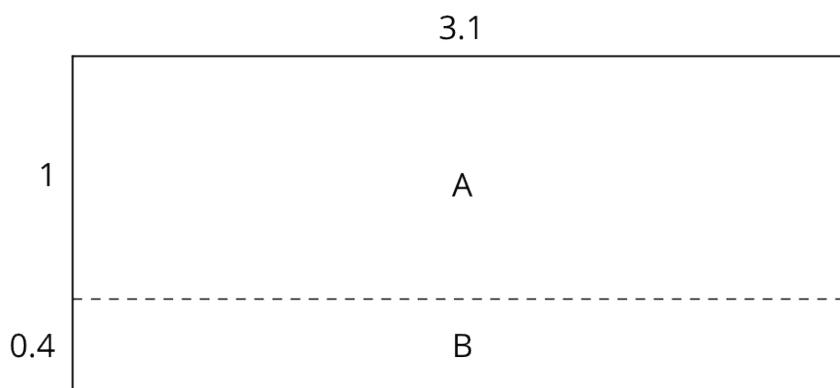
a. Find the areas of sub-rectangles A and B.

b. What is the area of the 3.1 by 1.4 rectangle?

3. Draw an area diagram to find $(0.36) \cdot (0.53)$. Label and organize your work so that it can be followed by others.

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4. Find each product. Show your reasoning.

    a. $(2.5) \cdot (1.4)$

    b. $(0.64) \cdot (0.81)$

5. Complete the calculations so that each shows the correct sum.

$$
\begin{array}{r}
2\,.\,3\,\boxed{} \\
+\ \boxed{}\,.\,6\ \ 4 \\
\hline
9\,.\,\boxed{}\ \ 5
\end{array}
\qquad
\begin{array}{r}
2\,.\,3\,\boxed{} \\
+\ \boxed{}\,.\,6\ \ 4 \\
\hline
9\,.\,\boxed{}\ \ 2
\end{array}
$$

$$
\begin{array}{r}
4\,.\,3\,\boxed{} \\
+\ \boxed{}\,.\,1\ \ 5 \\
\hline
6\,.\,\boxed{}\ \ 2
\end{array}
\qquad
\begin{array}{r}
1\,.\,5\,\boxed{} \\
+\ \boxed{}\,.\,3\ \ 8 \\
\hline
1\,.\,\boxed{}\ \ 4
\end{array}
$$

(From Unit 5, Lesson 3.)

6. 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.)

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