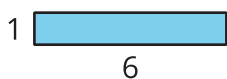# Lesson 9: Relate Area to Multiplication

- Let's explore the area of rectangles with one side length that is a unit fraction.

Warm-up: Which One Doesn't Belong: Area
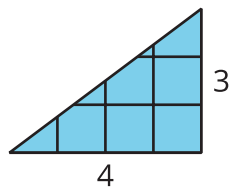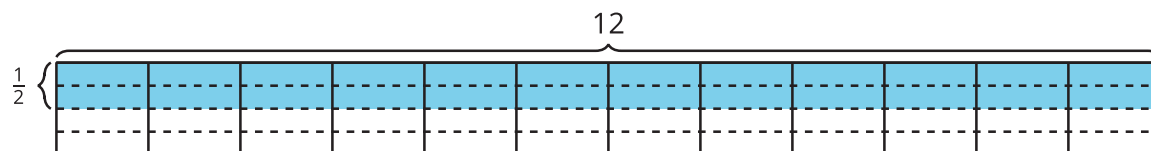
Which one doesn't belong?

A

1
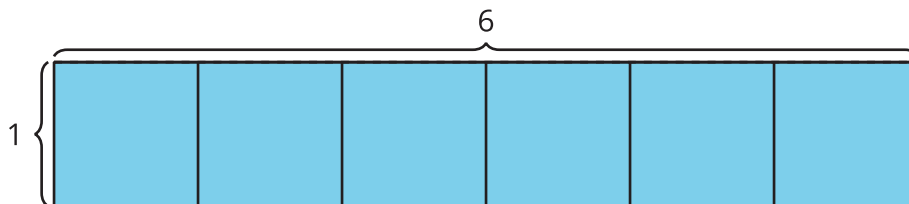
6

B

C

3

4

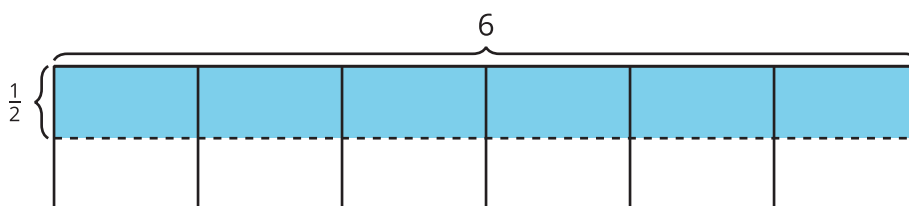**D**

12

$\frac{1}{2}$

9.1: Find the Area

Find the area of the shaded region. Explain or show your reasoning.
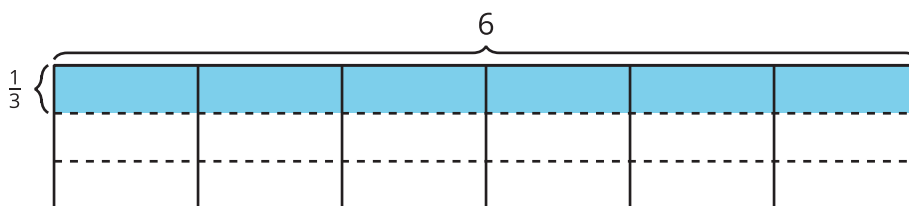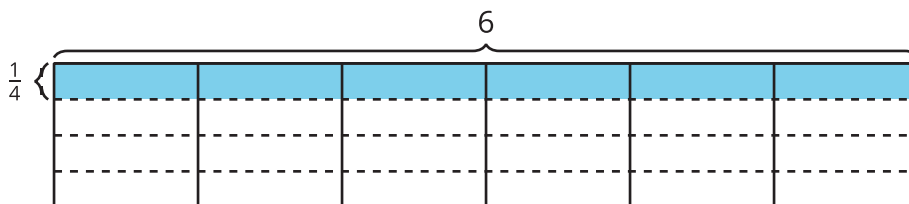
1.

2.

3.

4.

9.2: Draw Rectangles

1. Represent each rectangle on grid paper:
   - $\frac{1}{2}$ unit by 1 unit

   - $\frac{1}{2}$ unit by 2 units

   - $\frac{1}{2}$ unit by 3 units

   - $\frac{1}{2}$ unit by 4 units

2. Find the area of each rectangle that you drew.

3. What information do you need to find the area of the shaded region?

4. What might the area of the shaded region be? Explain or show your reasoning.