## 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

B

C

D

### 9.1: Find the Area

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

1.
* 
1.
* 
1.
* 
1.
* 

### 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?
* 
1. What might the area of the shaded region be? Explain or show your reasoning.



© CC BY 2021 Illustrative Mathematics®