Unit 3, Lesson 5

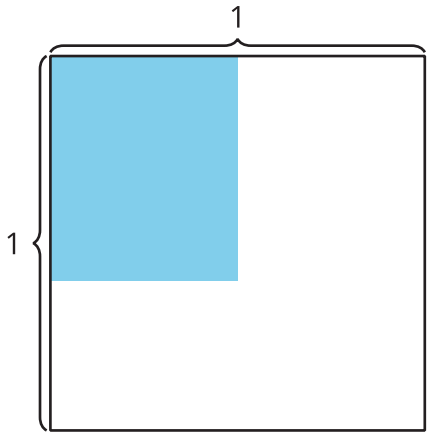
Multiply a Unit Fraction by a Non-Unit Fraction

Let's multiply a unit fraction and a non-unit fraction.

Warm-up

Estimation Exploration: Shaded Rectangle

What is the area of the shaded region?



Record an estimate that is:

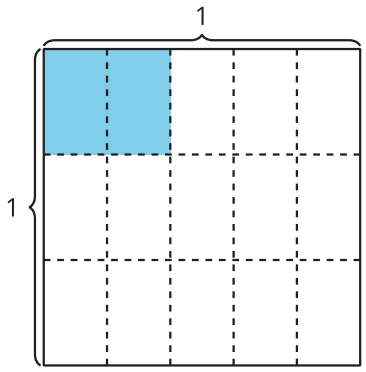
too low	about right	too high

Activity 1

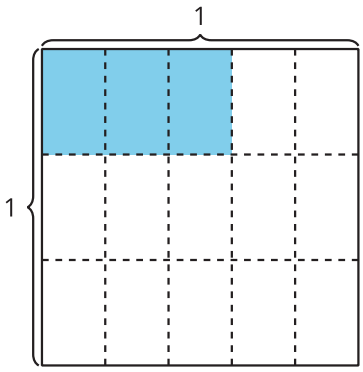
Write Equations

1. Represent the shaded region in each diagram. Write a multiplication expression.

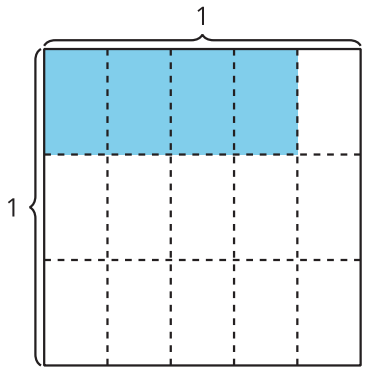
A



B



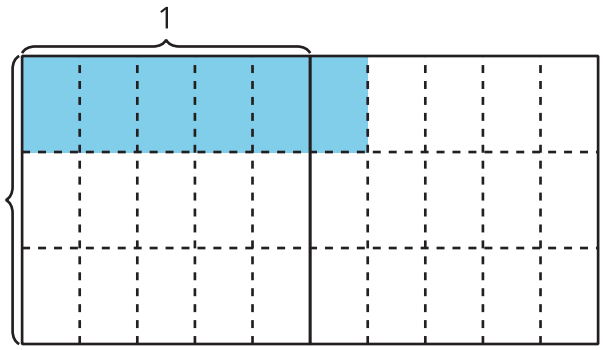
C



2. What patterns do you notice in the multiplication expressions?

3. Han writes this equation to represent the area of the shaded region. How does the diagram represent the equation? Explain or show your reasoning.

$\frac{6}{5} \times \frac{1}{3} = \frac{6}{15}$

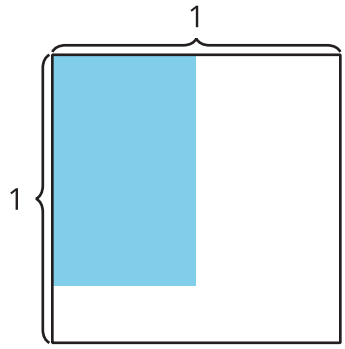


Activity 2

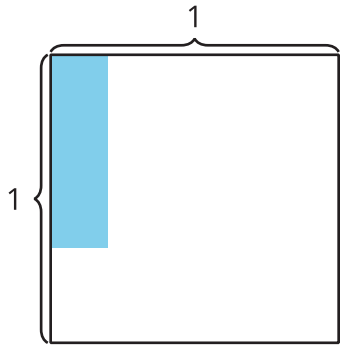
Estimate With Expressions

Represent the area of the shaded region. Write a multiplication expression.

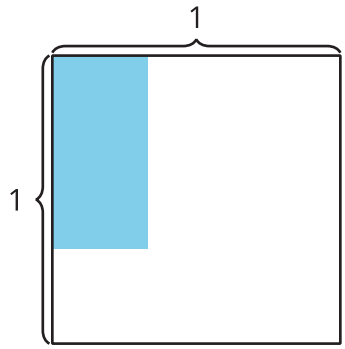
1.



2.



3.



4.