Unit 2, Lesson 10

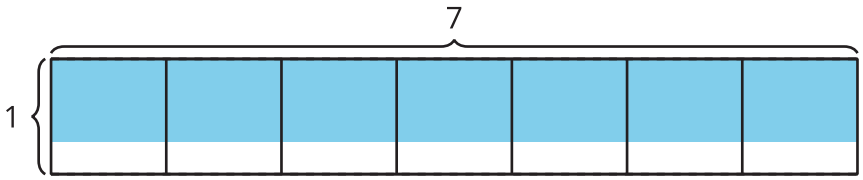
Fractional Side Lengths Less than 1

Let's find the area of rectangles with a fractional side length.

Warm-up

Estimation Exploration: What Is the Area?

What is the area of the shaded region?



Record an estimate that is:

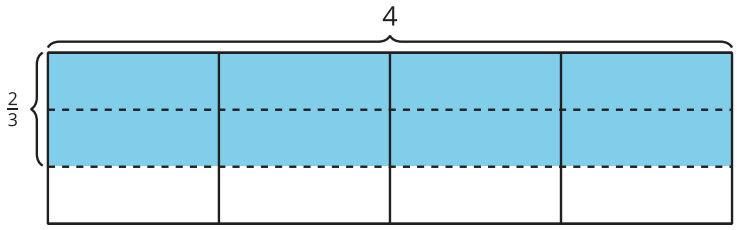
too low	about right	too high

Activity 1

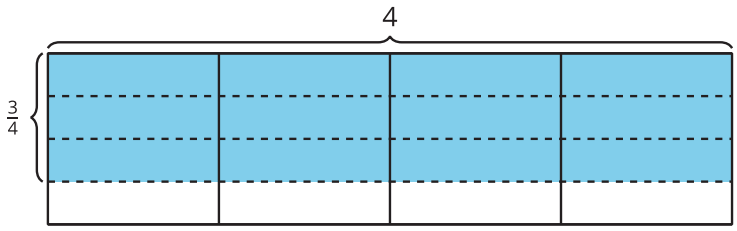
Rectangle with a Fractional Side Length

Write a multiplication expression to represent the area of each shaded region in square units. Then find the area.

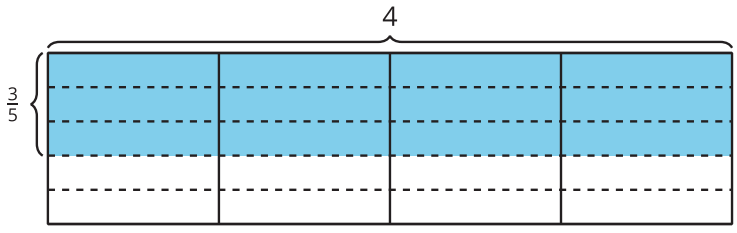
1.



2.



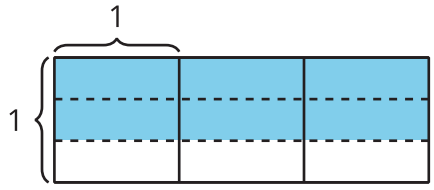
3.



Activity 2

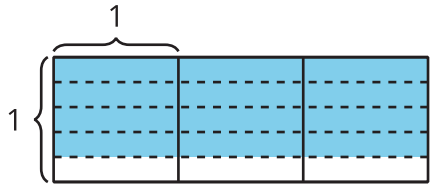
What Are the Side Lengths?

1. Write a multiplication expression to represent the area of the shaded region in square units. What is the area?

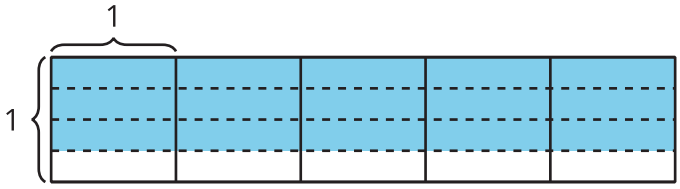


2. Here are two diagrams. Decide whether each expression represents the shaded region in one of the diagrams.

X



Y



a. $\frac{3}{4} \times 5$

b. $3 \times \frac{3}{5}$

c. $3 \times 4 \times \frac{1}{5}$

d. $4 \times \frac{3}{4}$

e. $3 \times 3 \times \frac{1}{4}$

3. For each diagram, what is the area of the shaded region?