



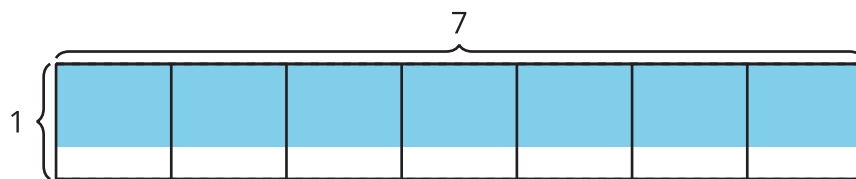
# Fractional Side Lengths Less than 1

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:

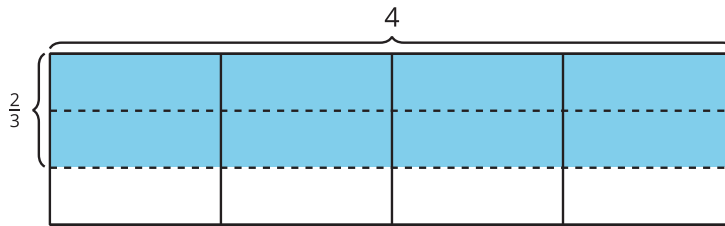
too low	about right	too high

## Activity 1

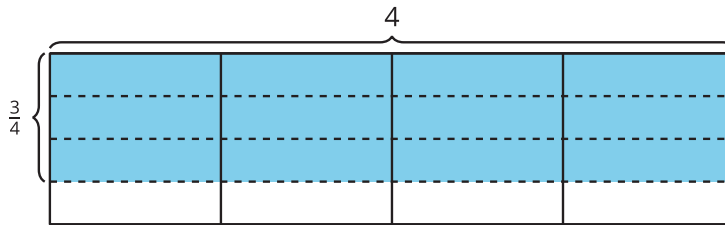
### Rectangle with a Fractional Side Length

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

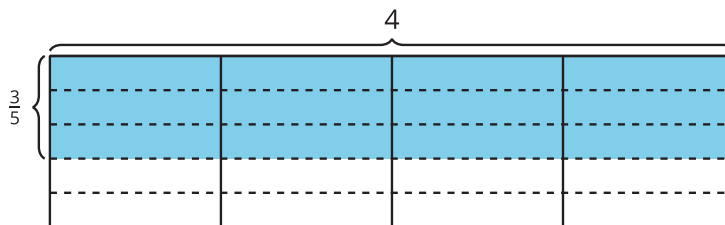
1.



2.



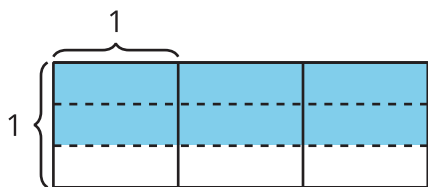
3.



## Activity 2

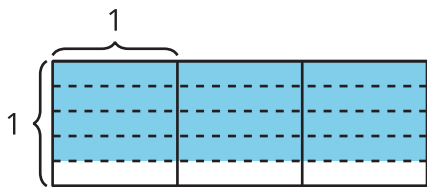
### What Are the Side Lengths?

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

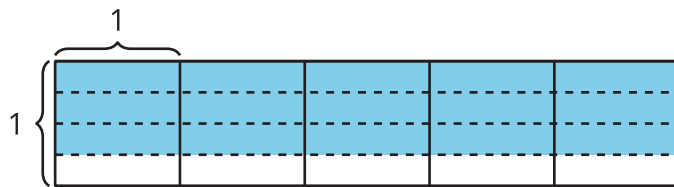


- Here are two diagrams. Decide whether each expression represents the shaded region in one of the diagrams.

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

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