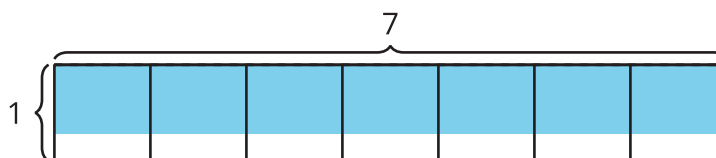


# Lesson 10: Fractional Side Lengths Less Than 1

- 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?



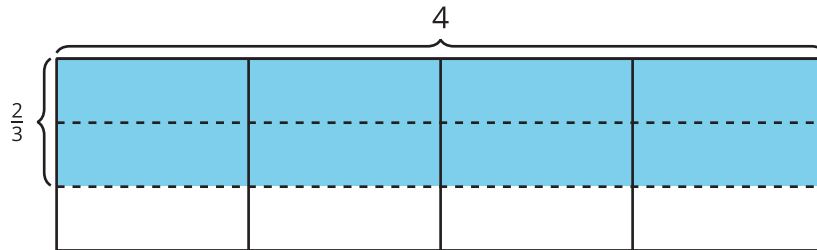
Record an estimate that is:

too low	about right	too high

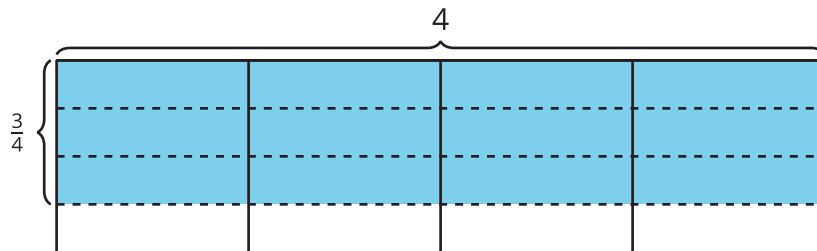
## 10.1: Rectangle With a Fractional Side Length

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

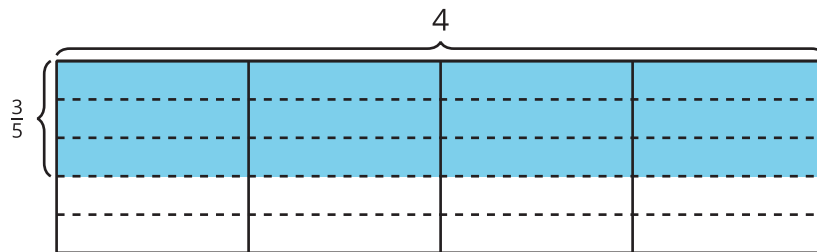
1.



2.

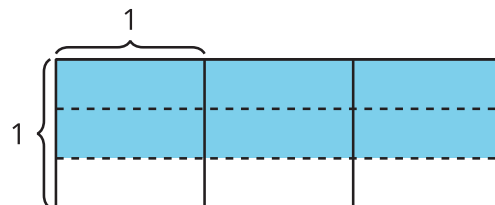


3.



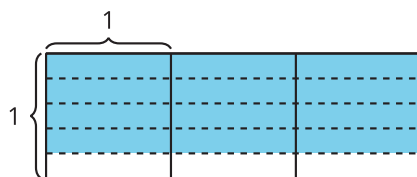
## 10.2: What Are the Side Lengths?

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

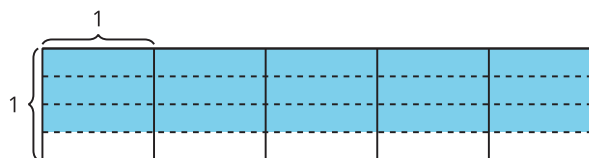


- Here are two diagrams. Consider each expression and decide whether it represents the shaded region in one of the diagrams. Be prepared to share your thinking.

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?