![Illustrative Mathematics logo]
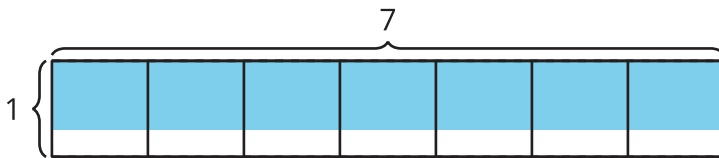
Unit 2 Lesson 10: Fractional Side Lengths Less Than 1

WU Estimation Exploration: What is the Area? (Warm up)

Student Task Statement

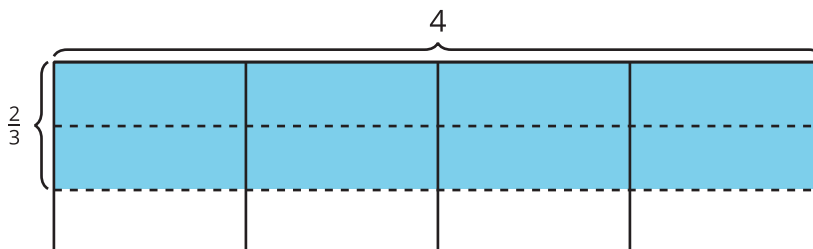What is the area of the shaded region?

Record an estimate that is:

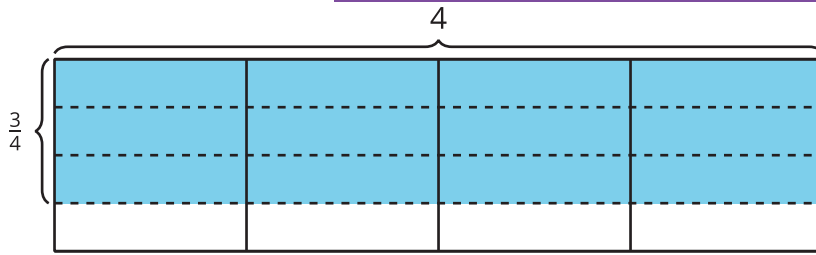| too low	about right	too high

1 Rectangle With a Fractional Side Length

Student Task Statement

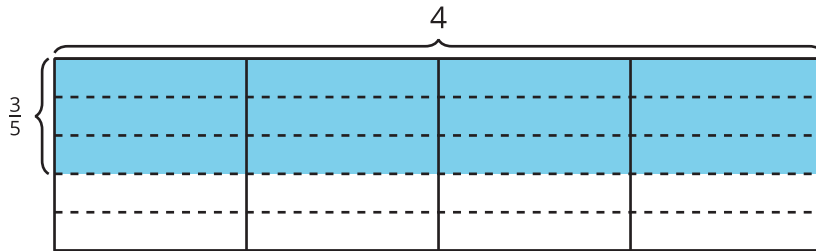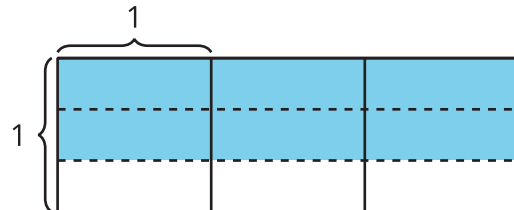Write a multiplication expression to represent the area of each shaded region. Then find the area.

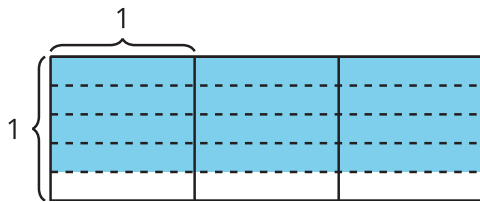1.

2.

3.

2 What Are the Side Lengths?

Student Task Statement

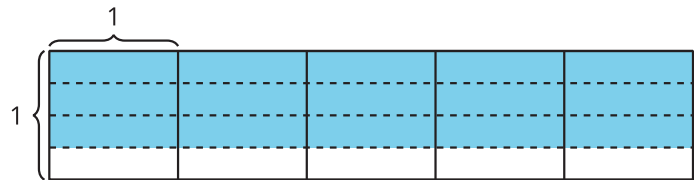1. Write a multiplication expression to represent the area of the shaded region. What is the area?

2. 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. $3 \times 3 \times \frac{1}{4}$

3. For each diagram, what is the area?