

## Grade 5 Unit 3

### Lesson 7

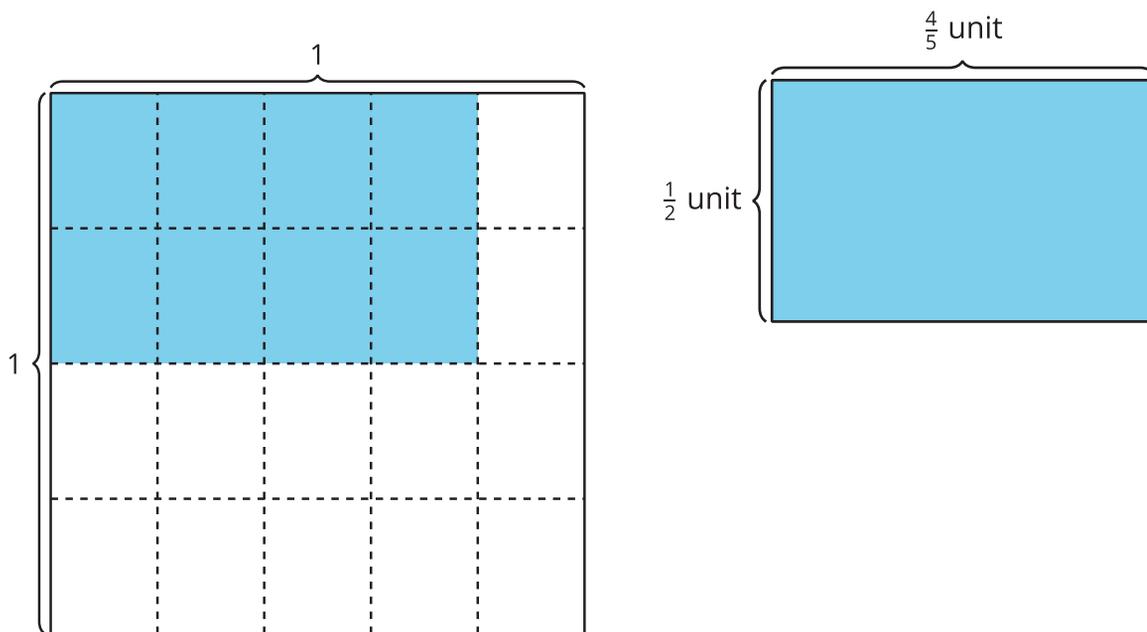
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## Unit 3 Lesson 7: Generalize Fraction Multiplication

### WU Notice and Wonder: Two Diagrams (Warm up)

#### Student Task Statement

What do you notice? What do you wonder?

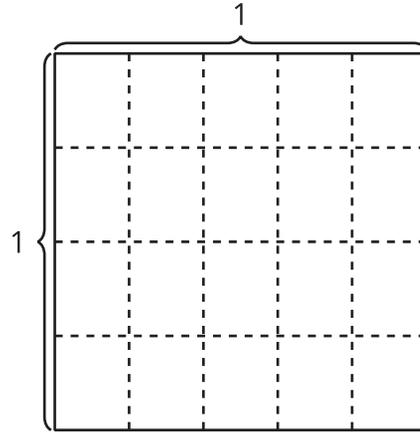


### 1 Equations and Area

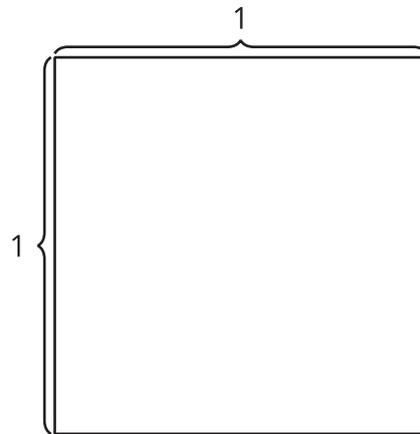
#### Student Task Statement

- Find the value of each product. Draw an area diagram if it is helpful.

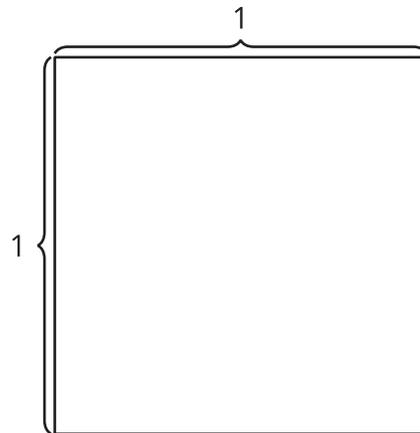
a.  $\frac{2}{5} \times \frac{3}{4}$



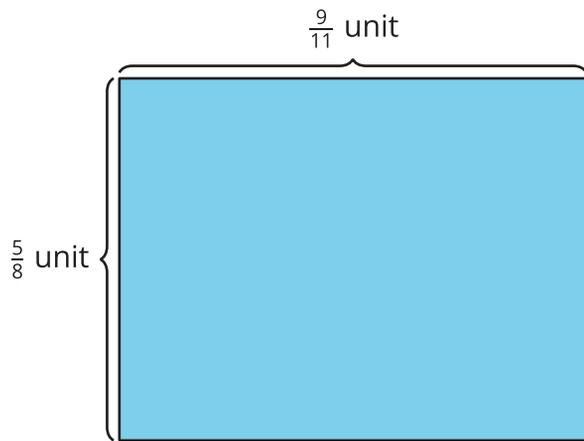
b.  $\frac{3}{7} \times \frac{4}{5}$



c.  $\frac{9}{11} \times \frac{5}{8}$



- How did you decide whether or not to draw a diagram? How did the diagrams influence how you found the products?
- Diego drew this diagram for the product  $\frac{9}{11} \times \frac{5}{8}$ . How can the diagram help Diego find the value of  $\frac{9}{11} \times \frac{5}{8}$ ?



## 2 Multiply Fractions

### Student Task Statement

Find the value that makes each equation true. Draw a diagram, if it is helpful.

1.  $\frac{3}{8} \times \frac{2}{5} = \underline{\hspace{2cm}}$

2.  $\frac{3}{4} \times \frac{9}{5} = \underline{\hspace{2cm}}$

3.  $\frac{10}{5} \times \frac{6}{5} = \underline{\hspace{2cm}}$

4.  $\frac{8}{9} \times \underline{\hspace{2cm}} = \frac{56}{36}$

5.  $5 \times \underline{\hspace{2cm}} = \frac{15}{8}$