Unit 3, Lesson 7

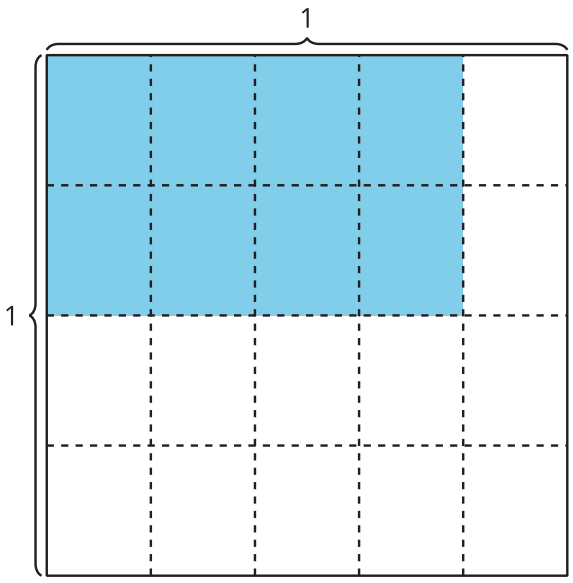
Generalize Fraction Multiplication

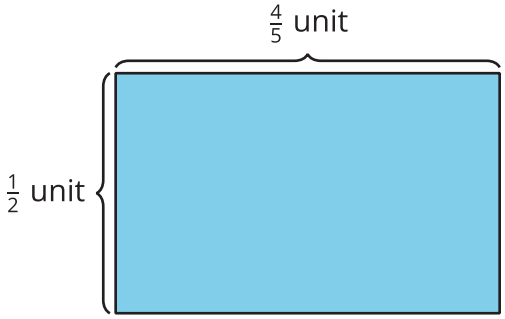
Let's use what we've learned to multiply any two fractions.

Warm-up

Notice and Wonder: Two Diagrams

What do you notice? What do you wonder?



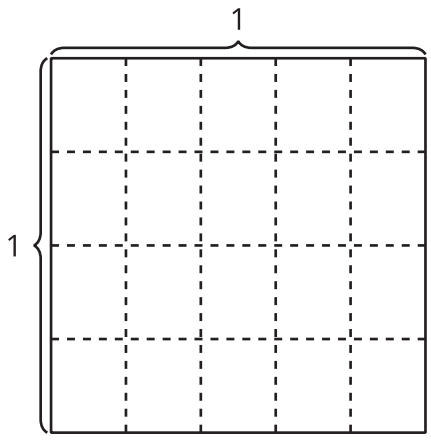


Activity 1

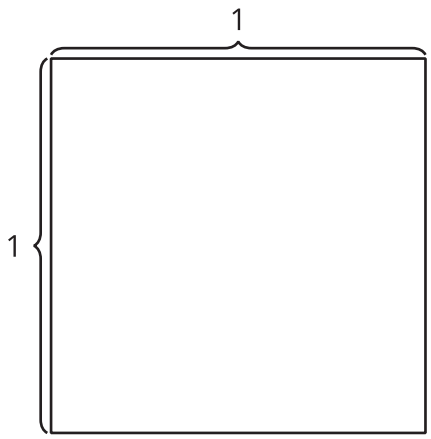
Equations and Area

1. Find the value of each product. Draw a diagram if it is helpful.

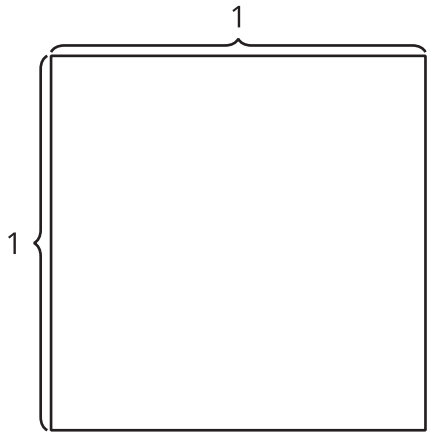
   a. $\frac{2}{5} \times \frac{3}{4}$



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

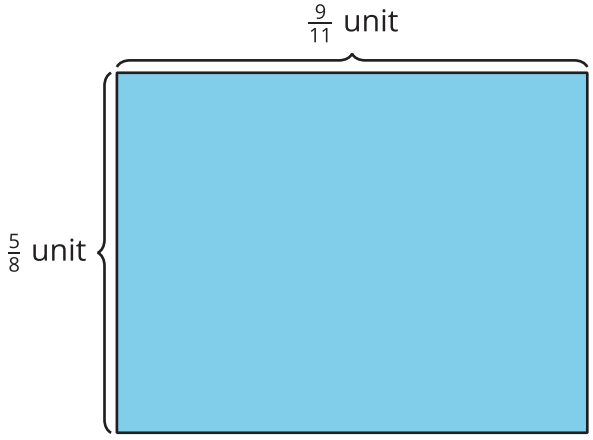


   c. $\frac{9}{11} \times \frac{5}{8}$



2. How did you decide whether or not to draw a diagram? How did the diagrams help you find the products?

3. Diego drew this diagram to represent the product $\frac{9}{11} \times \frac{5}{8}$. How can the diagram help Diego find the value of $\frac{9}{11} \times \frac{5}{8}$? Explain or show your reasoning.



Activity 2

Multiply Fractions

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

1. $\frac{3}{8} \times \frac{2}{5} = _____$

2. $\frac{3}{4} \times \frac{9}{5} = _____$

3. $\frac{10}{5} \times \frac{6}{5} = _____$

4. $\frac{8}{9} \times _____ = \frac{56}{36}$

5. $5 \times _____ = \frac{15}{8}$