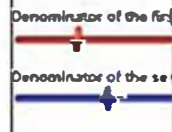


**Activity A:**  
Finding the product

Get the Gizmo ready:

- Set Denominator of the first fraction to 3.
- Set Denominator of the second fraction to 5.
- Turn off Show calculation.



1. With Show fraction model turned on, drag the red probe to shade 2 horizontal strips red.

This models  $\frac{2}{3}$ . Then drag the blue probe to shade 4 vertical strips blue. This models  $\frac{4}{5}$ .

- How many little rectangles are in each square unit in the grid? \_\_\_\_\_
- How does the number of rectangles in each square unit relate to the denominators of the two fractions? \_\_\_\_\_
- How many rectangles are shaded twice (both red and blue)? \_\_\_\_\_
- How does the number of rectangles shaded twice relate to the numerators of the two fractions? \_\_\_\_\_
- The answer to a multiplication problem is called the **product**. Fill in the equation below to find the product of the fractions. Turn on Show calculation to check your work.

$$\frac{\text{Total rectangles shaded twice}}{\text{Rectangles per unit square}} = \frac{2}{3} \cdot \frac{4}{5} = \frac{\boxed{\phantom{00}} \cdot \boxed{\phantom{00}}}{\boxed{\phantom{00}} \cdot \boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

2. Turn off Show calculation. Be sure Show fraction model is still turned on.

A. Drag the red probe to model a fraction greater than 1. What fraction did you model?



B. Drag the blue probe to model a fraction greater than 1. What fraction did you model?



C. Fill in the equation below to show the product of your two fractions. Turn on Show calculation to check your work.

$$\frac{\boxed{\phantom{00}} \cdot \boxed{\phantom{00}}}{\boxed{\phantom{00}} \cdot \boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}} \cdot \boxed{\phantom{00}}}{\boxed{\phantom{00}} \cdot \boxed{\phantom{00}}} = \underline{\hspace{2cm}}$$

(Activity A continued on next page)

