Name: _____

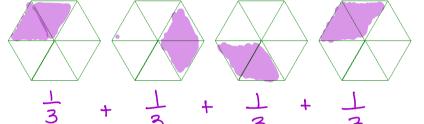
Date: _____

Learning Goal 2.2

I can multiply and divide fractions.

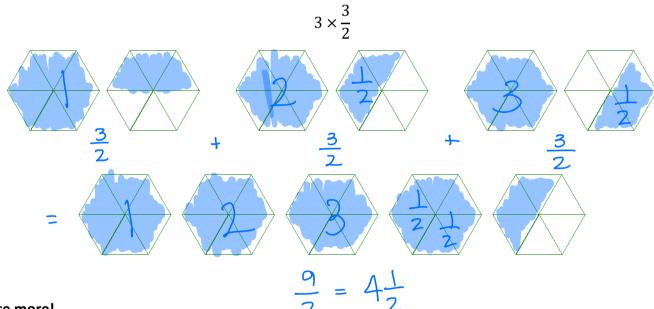
Consider the product

4 groups
$$4 \times \frac{1}{3} \leftarrow \text{Size of the group}$$





Again!



Twice more!

$$3 \times \frac{1}{6}$$

$$3 \times \frac{5}{6}$$

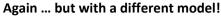
$$+ \frac{5}{6}$$

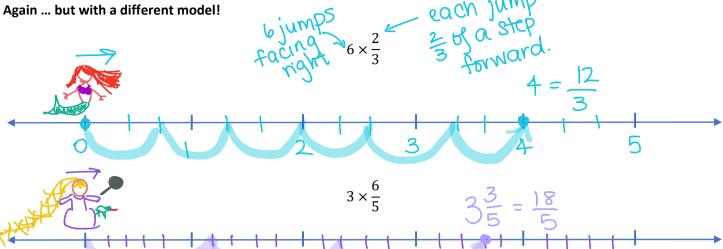
$$+ \frac{5}{6}$$

$$+ \frac{5}{6}$$

5/6				
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Multiplying a Fraction and Whole Number

* multiply the whole # and the numeroutor together * keep the denominator.

Example Calculate the following products.

a.
$$4 \times \frac{5}{7} = \frac{20}{7} = 2\frac{6}{7}$$

b.
$$\frac{1}{3} \times 12 = \frac{2^{\div 3}}{3 \div_3} = 4$$

c.
$$\frac{7 \times 9}{3} = \frac{7}{3} \times 9 = \frac{63 \div 3}{3 \div 3} = 21$$

d.
$$9 \text{ of } \frac{5}{9} = \frac{45 \div 9}{9 \div 9} = 5$$

Example A spider has eight legs. An ant has $\frac{3}{4}$ as many legs as a spider. How many legs does an ant have?

$$\frac{3}{4}$$
 of $8 = \frac{3}{4} \times 8 = \frac{24}{4} = 6$ Ants have 6 legs.

Example Jenny is making a recipe that calls for six scoops of flour. She wants to make only $\frac{2}{3}$ of the recipe. CUPS How many scoops will she need to use?

Cups

$$\frac{2}{3}$$
 of $b = \frac{2}{3} \times b = \frac{12^{\frac{1}{3}}}{3 \div 3} = 4$

Assignment

She will use 4 cups of flow.

Quiz Next Day!