

Activity 10 Assessment

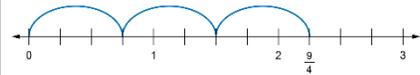
Multiplying Fractions

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Multiplies a fraction by a whole number

$$3 \times \frac{3}{4}$$

"I can think of this as 3 hops of $\frac{3}{4}$ on a fraction number line.



From the diagram, $3 \times \frac{3}{4} = \frac{9}{4}$."

Multiplies a whole number by a fraction

$$\frac{3}{4} \times 3$$

"I want to find three-fourths of 3. I can start by drawing 3, dividing it into 4 equal parts, then shading 3 of these parts.

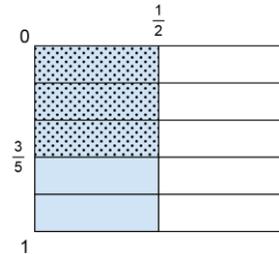


From the diagram, $\frac{3}{4} \times 3 = 2\frac{1}{4}$, which is the same as $3 \times \frac{3}{4}$."

Multiplies a fraction by a fraction

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

"I drew a rectangle and shaded $\frac{1}{2}$ of it. Then drew a pattern of dots on $\frac{3}{5}$ of the region I shaded. In my diagram, there are 10 equal regions and 3 of them are shaded and dotted. So, $\frac{3}{5} \times \frac{1}{2} = \frac{3}{10}$."

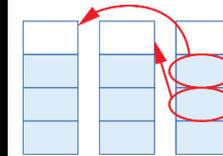


Represents and solves problems that involve fraction multiplication

Luca has 3 identical pails of water.

Each pail is $\frac{3}{4}$ full. If Luca combines the water, how many pails can be filled?

"I drew 3 rectangles to represent the pails. I divided each into 4 equal parts and shaded 3 parts of each pail. I thought about how I could combine them to form complete pails. There were 2 full pails plus $\frac{1}{4}$ extra. So, the answer is $2\frac{1}{4}$ pails."



Observations/Documentation