Number

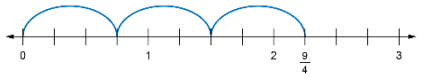
# Activity 21 Assessment
## Multiplying Fractions

### Multiplying Fractions

**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.

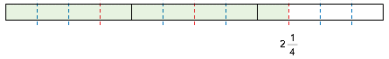



From the diagram, $3 \times \frac{3}{4} = \frac{9}{4}$."

**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.

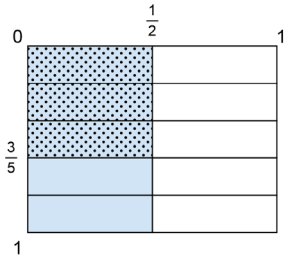



From the diagram, $\frac{3}{4} \times 3 = 2\frac{1}{4}$, which is the same as $3 \times \frac{3}{4}$."

**Multiplies a fraction by a fraction**

$\frac{3}{5} \times \frac{1}{2}$

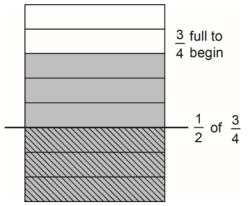
"I drew a rectangle and shaded $\frac{1}{2}$ of it. Then drew a pattern of dots on $\frac{3}{5}$ of the region I shaded. In my diagram, there are 10 equal regions and 3 of them are shaded and dotted. So, $\frac{3}{5} \times \frac{1}{2} = \frac{3}{10}$."




**Represents and solves problems that involve fraction multiplication**

Sam had a milk jug that was $\frac{3}{4}$ full. After filling several glasses, Sam noticed that they had used half of the milk that was in the jug. What fraction of a jug was left?

"I divided a rectangle into 4 equal parts and shaded $\frac{3}{4}$ of it. I then drew a line to mark $\frac{1}{2}$ of $\frac{3}{4}$. This line sliced the middle $\frac{1}{4}$ in half. I know that half of $\frac{1}{4}$ is $\frac{1}{8}$, so I marked the rest of the eighths using a different shading. The jug is $\frac{3}{8}$ full."



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| Observations/Documentation | | | |
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