

Multiply Unit Fractions by Non-Unit Fractions

1. Solve each problem below using a rectangular fraction model:

a) $\frac{1}{2} \times \frac{2}{3}$

b) $\frac{1}{2} \times \frac{3}{4}$

c) $\frac{1}{3} \times \frac{2}{3}$

d) $\frac{1}{2} \times \frac{2}{5}$

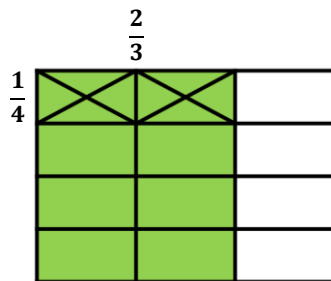
e) $\frac{1}{2} \times \frac{4}{5}$

f) $\frac{2}{3} \times \frac{1}{2}$

g) $\frac{1}{2} \times \frac{2}{2}$

h) $\frac{3}{4} \times \frac{1}{2}$

Example:



$\frac{1}{4}$ of $\frac{2}{3}$ equals $\frac{2}{12}$

$$\frac{1}{4} \times \frac{2}{3} = \frac{2}{12}$$

2. As you solve the problems look for patterns in order to generalize a procedure for multiplying unit fractions by non-unit fractions. Justify why the procedure works.