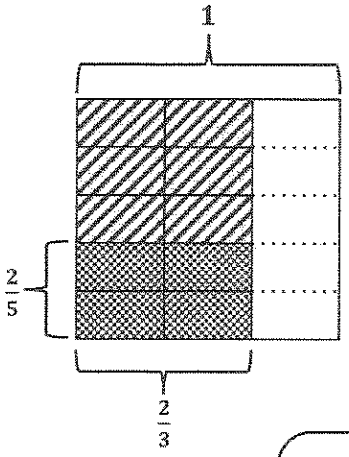
G5-M4-Lesson 15

1. Solve. Draw a rectangular fraction model to explain your thinking. Then, write a multiplication sentence.

   $\frac{2}{5}$ of $\frac{2}{3}$

   $\frac{2}{5} \times \frac{2}{3} = \frac{4}{15}$



2. Multiply.

   a. $\frac{3}{8} \times \frac{2}{5}$

The 2 in the numerator and the 8 in the denominator have a common factor of 2.

$2 \div 2 = 1$ and $8 \div 2 = 4$

$$\frac{3}{8} \times \frac{2}{5} = \frac{3 \times \overset{1}{\cancel{2}}}{\underset{4}{\cancel{8}} \times 5} = \frac{3}{20}$$

Now the numerator is 3×1, and the denominator is 4×5.

   b. $\frac{2}{5} \times \frac{10}{12}$

I was able to rename this fraction twice before multiplying. 5 and 10 have a common factor of 5.

$$\frac{2}{5} \times \frac{10}{12} = \frac{\overset{1}{\cancel{2}} \times \overset{2}{\cancel{10}}}{\underset{1}{\cancel{5}} \times \underset{6}{\cancel{12}}} = \frac{2}{6}$$

And 2 and 12 have a common factor of 2.

Now the numerator is 1×2, and the denominator is 1×6.