

9/10/18

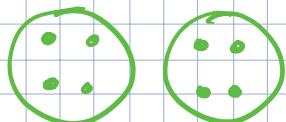
Be able to multiply and divide fractions.

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Multiplication

$$2 \cdot 4 = 8$$

2 groups of 4



$$\frac{2}{3} \cdot \frac{1}{2} = \frac{2}{6} = \frac{1}{3}$$



$$\frac{2}{3} \cdot \frac{1}{2} = \frac{2}{6} = \frac{1}{3}$$

- multiply numerators
- multiply denominators
- simplify

Don't need a common denominator to multiply or divide!

Practice

$$\textcircled{1} \frac{5}{6} \cdot \frac{1}{5} = \frac{5}{30} = \frac{1}{6} \quad \textcircled{1} \frac{\cancel{8}}{6} \cdot \frac{1}{\cancel{8}} = \frac{1}{6}$$

$$\textcircled{a} \quad \frac{7}{8} \cdot \frac{2}{7} = \frac{14}{56} =$$

$$\frac{7}{28} = \frac{1}{4}$$

$$\textcircled{a} \quad \frac{7}{4} \cdot \frac{2}{7} = \frac{14}{28} = \frac{1}{2}$$

Dividing

Inverse
Reciprocal

$$\frac{7}{8} \Rightarrow \text{reciprocal } \frac{8}{7}$$

Keep, Change, Flip

$$\frac{1}{2} \div \frac{1}{4} =$$

$$\frac{1}{2} \cdot \frac{4}{1} = \frac{4}{2} = 2$$



Practice

$$\frac{3}{4} \div \frac{7}{8} =$$

$$\frac{3}{4} \cdot \frac{8}{7} = \frac{6}{7}$$

