

Name: _____

Date: _____

Learning Goal 2.2

I can multiply and divide fractions.

Example Use **common denominators** to model the following quotients.

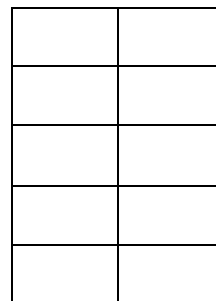
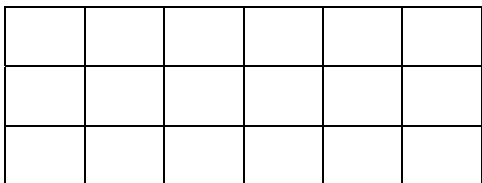
$$\frac{3}{4} \div \frac{1}{8}$$

$$2\frac{1}{2} \div \frac{3}{4}$$

Example Use **arrays** to model the following quotients.

$$\frac{5}{6} \div \frac{2}{3}$$

$$\frac{1}{2} \div \frac{2}{5}$$

**Dividing Fractions and Mixed Numbers Without using a Model**

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Example Evaluate the following quotients. Write your answers in lowest terms.

a. $\frac{1}{9} \div \frac{2}{7}$

b. $\frac{4}{5} \div \frac{3}{10}$

c. $\frac{10}{9} \div \frac{5}{6}$

d. $2\frac{2}{5} \div \frac{8}{15}$

e. $3\frac{1}{6} \div 1\frac{2}{3}$

f. $2\frac{13}{16} \div 2\frac{7}{24}$

Example Vince usually takes $5\frac{1}{2}$ hours to drive from Kamloops to Banff. Because of snowfall, the drive took Vince $8\frac{1}{4}$ hours one day. How many times as long as usual was the drive that day?

Example Sabrina has $3\frac{1}{3}$ L of ice cream to share equally amongst herself and her nine friends at her birthday party. How much ice cream will each person get?