

**LESSON**  
**4-2****Dividing Fractions****Reteach**

Two numbers are reciprocals if their product is 1.

$$\frac{2}{3} \text{ and } \frac{3}{2} \text{ are reciprocals because } \frac{2}{3} \cdot \frac{3}{2} = \frac{6}{6} = 1.$$

Dividing by a number is the same as multiplying by its reciprocal.

$$\frac{1}{4} \div \frac{1}{2} = \frac{1}{2} \quad \longrightarrow \quad \frac{1}{4} \cdot \frac{2}{1} = \frac{1}{2}$$

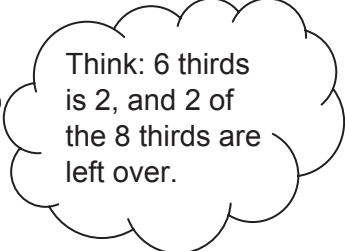
So, you can use reciprocals to divide by fractions.

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

First, rewrite the expression as a multiplication expression.

Use the reciprocal of the divisor:  $\frac{1}{4} \cdot \frac{4}{1} = 1$ .

$$\begin{aligned} \frac{2}{3} \div \frac{1}{4} &= \frac{2}{3} \cdot \frac{4}{1} \\ &= \frac{8}{3} \\ &= 2\frac{2}{3} \end{aligned}$$



Think: 6 thirds is 2, and 2 of the 8 thirds are left over.

**Rewrite each division expression as a multiplication expression. Then find the value of the expression. Write each answer in simplest form.**

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

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

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3.  $\frac{3}{8} \div \frac{1}{2}$

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

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**Divide. Write each answer in simplest form.**

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

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

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7.  $\frac{1}{8} \div \frac{2}{5}$

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8.  $\frac{1}{8} \div \frac{1}{2}$

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