

# Dividing Mixed Numbers

Lesson 5-4

## Strategy:

- Change mixed numbers into improper fractions.
- Instead of dividing, multiply by the reciprocal.
- Factor when possible, multiply, and put your answer in simplest form.

# Example 1

$$6\frac{2}{5} \div 2\frac{2}{7}$$

$$\frac{32}{5} \div \frac{16}{7}$$

$$\begin{array}{r} \cancel{2} \cancel{32} \\ \hline 5 \end{array} \times \frac{7}{\cancel{16}1} = \frac{14}{5} = 2\frac{4}{5}$$

## Example 2

$$1\frac{1}{9} \div 6\frac{2}{3}$$

$$\frac{10}{9} \div \frac{20}{3}$$

$$\frac{\cancel{1}0}{3\cancel{9}} \times \frac{\cancel{3}1}{\cancel{20}2} = \frac{1}{6}$$

# Example 3

$$8 \frac{1}{13} \div 5$$

$$\frac{105}{13} \div \frac{5}{1}$$

$$\begin{array}{r} \cancel{21} \cancel{105} \\ 13 \end{array} \times \frac{1}{\cancel{5}1} = \frac{21}{13} = 1 \frac{8}{13}$$

# Homework Time

