

## Compare and Order Mixed Numbers

The three fractions  $\frac{2}{3}$ ,  $\frac{3}{4}$  and  $\frac{2}{6}$  are arguing about who is the largest.

You can settle the argument by finding a common multiple of the denominators.

### STEP 1

Find the product of all three denominators. Use it for the denominator.

$$3 \times 4 \times 6 = 72$$

72 is the common multiple.

### STEP 2

Rename each fraction so that 72 is the denominator.

$$\frac{2}{3} \cdot \frac{24}{24} = \frac{48}{72} \quad \frac{3}{4} \cdot \frac{18}{18} = \frac{54}{72} \quad \frac{2}{6} \cdot \frac{12}{12} = \frac{24}{72}$$

### STEP 3

Compare the numerator. Put them in order from least to greatest.

$$\begin{array}{ccc} \frac{24}{72} & \frac{48}{72} & \frac{54}{72} \\ \downarrow & \downarrow & \downarrow \\ \frac{2}{6} & \frac{2}{3} & \frac{3}{4} \end{array}$$

### Examples:

A- Compare. Write  $<$ ,  $>$  or  $=$

$$1) \frac{2}{5} \leq \frac{3}{5}$$

$$2) \frac{1}{6} \geq \frac{1}{8}$$

$$3) \frac{9}{8} = \frac{2}{2}$$

$$4) \frac{7}{18} \geq \frac{5}{4}$$