# 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 I

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

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

72 is the common multiple.

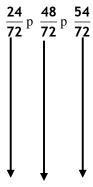
#### STEP 2

Rename each fraction so that 72 is the denominator.

$$\frac{2^{\,\prime}}{3^{\,\prime}} \, \frac{24}{24} = \frac{48}{72} \, \frac{3^{\,\prime}}{4^{\,\prime}} \, \frac{18}{18} = \frac{54}{72} \, \frac{2^{\,\prime}}{6^{\,\prime}} \, \frac{12}{12} = \frac{24}{72}$$

### STEP 3

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



$$\frac{2}{6}$$
 p  $\frac{2}{3}$  p  $\frac{3}{4}$ 

## Examples:

A- Compare. Write <, > or =

$$2)$$
  $\frac{1}{2}$   $\frac{1}{6}$   $\frac{1}{8}$   $\frac{1}{8}$   $\frac{1}{8}$   $\frac{1}{4}$