

# REVIEW: Comparing and Ordering Fractions

Name \_\_\_\_\_


## Key Concept and Vocabulary

$\frac{2}{3} ? \frac{3}{4}$

$\frac{2}{3} = \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$        $\frac{3}{4} = \frac{3 \times 3}{4 \times 3} = \frac{9}{12}$

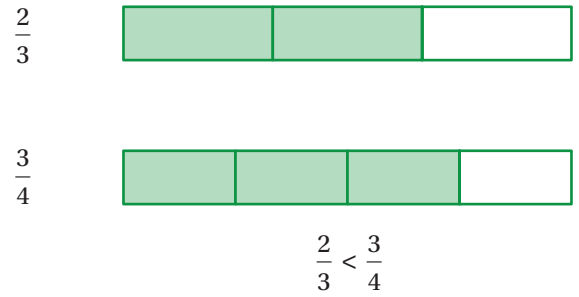
Use a like denominator.

$\frac{8}{12} < \frac{9}{12}$       So,  $\frac{2}{3} < \frac{3}{4}$ .



Comparing fractions

## Visual Model



## Skill Examples

- $\frac{1}{2} > \frac{5}{12}$  because  $\frac{1}{2} = \frac{6}{12}$ , and  $\frac{6}{12} > \frac{5}{12}$ .
- $\frac{3}{8} < \frac{2}{5}$  because  $\frac{3}{8} = \frac{15}{40}$ ,  $\frac{2}{5} = \frac{16}{40}$ , and  $\frac{15}{40} < \frac{16}{40}$ .
- Order from least to greatest:  $\frac{3}{4}$ ,  $\frac{3}{8}$ , and  $\frac{1}{8}$ .  
 $\frac{1}{8}$ ,  $\frac{3}{8}$ ,  $\frac{3}{4}$  because  $\frac{1}{8} < \frac{3}{8}$ ,  $\frac{3}{4} = \frac{6}{8}$ , and  $\frac{6}{8} > \frac{3}{8}$ .

## Application Example

- You run  $\frac{7}{8}$  mile. Your friend runs  $\frac{8}{10}$  mile.

Who runs farther?

$\frac{7}{8} > \frac{8}{10}$  because  $\frac{7}{8} = \frac{70}{80}$ ,  $\frac{8}{10} = \frac{64}{80}$ , and  $\frac{70}{80} > \frac{64}{80}$ .

••• You run farther.

## PRACTICE MAKES PURR-FECT®



Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Compare.

- $\frac{4}{5} > \frac{3}{5}$
- $\frac{1}{2} > \frac{1}{6}$
- $\frac{3}{4} < \frac{7}{8}$
- $\frac{2}{3} < \frac{5}{6}$
- $\frac{1}{4} < \frac{3}{10}$
- $\frac{3}{9} = \frac{1}{3}$
- $\frac{7}{10} > \frac{9}{20}$
- $\frac{7}{12} > \frac{3}{8}$

Order the fractions from least to greatest.

- $\frac{5}{6}, \frac{1}{2}, \frac{5}{8}$        $\frac{1}{2}, \frac{5}{8}, \frac{5}{6}$
- $\frac{4}{5}, \frac{17}{20}, \frac{3}{4}$        $\frac{3}{4}, \frac{4}{5}, \frac{17}{20}$
- $\frac{2}{3}, \frac{7}{12}, \frac{3}{8}$        $\frac{3}{8}, \frac{7}{12}, \frac{2}{3}$
- $\frac{1}{3}, \frac{33}{100}, \frac{3}{5}$        $\frac{33}{100}, \frac{1}{3}, \frac{3}{5}$

- PEANUTS** You have  $\frac{4}{5}$  pound of peanuts. Your friend has  $\frac{5}{6}$  pound of peanuts.

whose peanuts weigh more? your friend's

- ORDERING FRACTIONS** Graph the fractions on the number line and order them from least to greatest:  $\frac{6}{8}, \frac{1}{4}, \frac{1}{3}$ , and  $\frac{5}{12}$ .

$\frac{1}{4}, \frac{1}{3}, \frac{5}{12}, \frac{6}{8}$

