# REVIEW: Comparing and Ordering Fractions

Name _____

## Key Concept and Vocabulary

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

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

Use a like denominator.

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


## Visual Model

$\frac{2}{3}$

$\frac{3}{4}$

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

## Skill Examples

1. $\frac{1}{2} > \frac{5}{12}$ because $\frac{1}{2} = \frac{6}{12}$, and $\frac{6}{12} > \frac{5}{12}$.

2. $\frac{3}{8} < \frac{2}{5}$ because $\frac{3}{8} = \frac{15}{40}$, $\frac{2}{5} = \frac{16}{40}$, and $\frac{15}{40} < \frac{16}{40}$.

3. 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

4. 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.*

**Compare.**

5. $\frac{4}{5} \square \frac{3}{5}$

6. $\frac{1}{2} \square \frac{1}{6}$

7. $\frac{3}{4} \square \frac{7}{8}$

8. $\frac{2}{3} \square \frac{5}{6}$

9. $\frac{1}{4} \square \frac{3}{10}$

10. $\frac{3}{9} \square \frac{1}{3}$

11. $\frac{7}{10} \square \frac{9}{20}$

12. $\frac{7}{12} \square \frac{3}{8}$

**Order the fractions from least to greatest.**

13. $\frac{5}{6}, \frac{1}{2}, \frac{5}{8}$ _____

14. $\frac{4}{5}, \frac{17}{20}, \frac{3}{4}$ _____

15. $\frac{2}{3}, \frac{7}{12}, \frac{3}{8}$ _____

16. $\frac{1}{3}, \frac{33}{100}, \frac{3}{5}$ _____

17. **PEANUTS** You have $\frac{4}{5}$ pound of peanuts. Your friend has $\frac{5}{6}$ pound of peanuts. whose peanuts weigh more? _____

18. **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 $\frac{5}{12}$.