

REVIEW: Comparing and Ordering Fractions

Name _____

Key Concept and Vocabulary

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


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

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

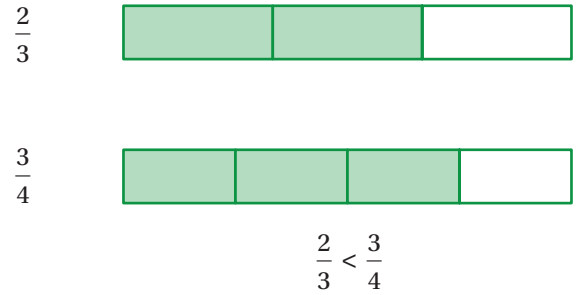
Use a like denominator.

$\frac{8}{12} < \frac{9}{12}$

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



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 $\frac{1}{8} < \frac{3}{8}$, $\frac{3}{8} = \frac{6}{8}$, 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.

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

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

whose peanuts weigh more? _____

- 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 $\frac{5}{12}$.

