

Strategies for Comparing Fractions

NCTM Standards 1, 2, 7, 8, 9, 10

Compare the fractions. Write $<$, $>$, or $=$.

1 $\frac{3}{4}$ ○ $\frac{3}{6}$

How did you figure it out? Choose one or more.

- Same denominators—compared the numerators.
- Same numerators—compared the denominators.
- Compared each fraction to $\frac{1}{2}$.
- Figured out which fraction is closer to 1.
- Recognized equivalent fractions.
- Something else: _____

2 $\frac{5}{12}$ ○ $\frac{6}{8}$

How did you figure it out? Choose one or more.

- Same denominators—compared the numerators.
- Same numerators—compared the denominators.
- Compared each fraction to $\frac{1}{2}$.
- Figured out which fraction is closer to 1.
- Recognized equivalent fractions.
- Something else: _____

3 $\frac{5}{8}$ ○ $\frac{7}{16}$

How did you figure it out? Choose one or more.

- Same denominators—compared the numerators.
- Same numerators—compared the denominators.
- Compared each fraction to $\frac{1}{2}$.
- Figured out which fraction is closer to 1.
- Recognized equivalent fractions.
- Something else: _____



4 Casey and Caitlin disagreed over whether the fractions $\frac{2}{6}$ and $\frac{3}{9}$ are equal. Are the fractions equal? Tell or show how you know.

For 5–6, write $<$, $>$, or $=$. Tell or show how you know.



5 $\frac{12}{18}$ ○ $\frac{6}{9}$



6 $\frac{8}{10}$ ○ $\frac{16}{18}$

Alberto used $\frac{2}{3}$ cup of peanuts, $\frac{3}{4}$ cup almonds, and $\frac{3}{5}$ cup raisins to make a trail mix for his hiking trip.



7 Did he use more almonds or raisins? Explain how you know.



8 Did he use more peanuts or almonds? Explain how you know.

9 **Challenge** Write two new fractions that have the same denominator and that make these sentences true.

$$\frac{5}{6} = \frac{\square}{\square} \qquad \frac{3}{4} = \frac{\square}{\square}$$

Which fraction is greater: $\frac{5}{6}$ or $\frac{3}{4}$? _____ How much greater is it? _____