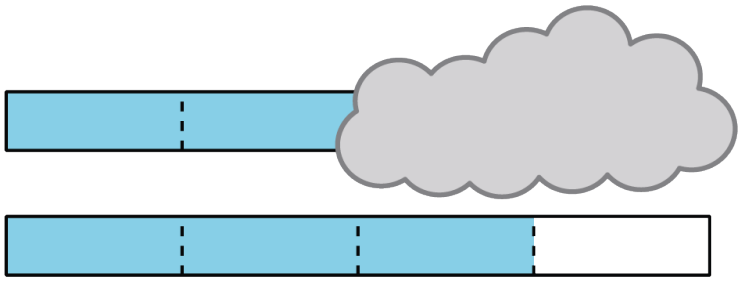
Compare Fractions with the Same Denominator

Let's compare 2 fractions with the same denominator.

Warm-up

Notice and Wonder: Two More Strips

What do you notice? What do you wonder?



Activity 1

Compare Fractions with the Same Denominator

1. For each pair of fractions, circle the fraction that is greater. Explain or show your reasoning.

   a. $\frac{1}{2}$ and $\frac{3}{2}$

   b. $\frac{3}{8}$ and $\frac{2}{8}$

2. Use the symbol > or < to make each statement true. Explain or show your reasoning.

   a. $\frac{1}{6}$ _____ $\frac{4}{6}$

   b. $\frac{4}{4}$ _____ $\frac{5}{4}$

c. $\frac{2}{3}$ _____ $\frac{1}{3}$

d. $\frac{4}{8}$ _____ $\frac{6}{8}$

If you have time: Write a number for the unknown numerator of the fraction to make each statement true. Explain or show your reasoning.

1. $\frac{1}{2} < \frac{\quad}{2}$

2. $\frac{6}{4} > \frac{\quad}{4}$

3. $\frac{4}{3} < \frac{\quad}{3}$

4. $\frac{5}{8} > \frac{\quad}{8}$

Activity 2

Spin to Win: Same Denominator

In this game, you will record fractions on number lines. Choose a writing utensil in a color different than your partner's, so you can tell which fraction is whose on each number line.

1. Each player spins the paper clip. The player who spins the higher number is Player 1.
2. Player 1 chooses a denominator for the first round: 2, 3, 4, 6, or 8.
3. Each player spins for the numerator of their fraction. If both players spin the same numerator, both players spin again until they are different.
4. Each player locates and labels their fraction on the same number line on the recording sheet.
5. Both players write their fractions and “>” or “<” on the recording sheet to complete the comparison statement.
6. The player with the greater fraction wins and picks the denominator for the next round.
7. Repeat for 10 rounds. The player who wins the most rounds wins the game.