Unit 2, Lesson 3

Same Denominator or Numerator

Let's compare fractions with the same numerator or the same denominator.

Warm-up

Number Talk: Hundreds More

Find the value of each expression mentally.

- $136 + 100$

- $136 + 300$

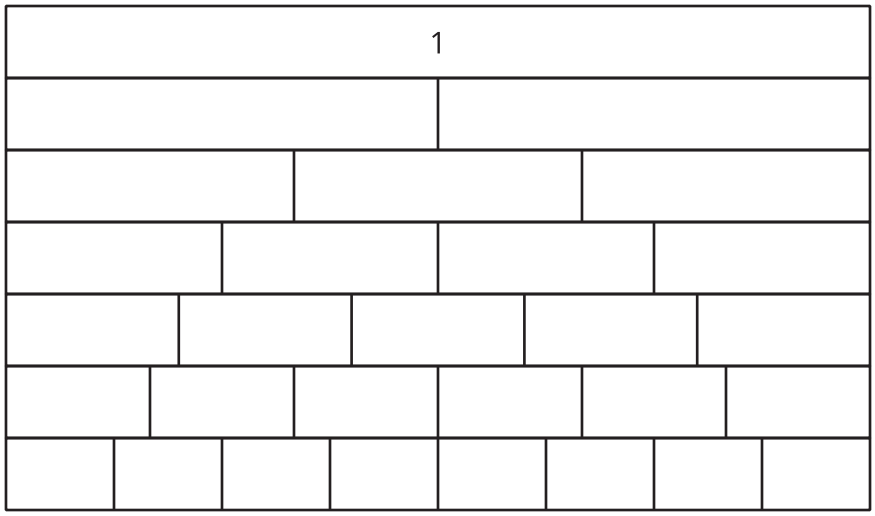
- $136 + 370$

- $136 + 378$

Activity 1

Fractions with the Same Denominator

1. This diagram shows a set of fraction strips. Label each part of each strip with the fraction it represents.



2. Circle the greater fraction in each pair. If helpful, use the diagram of fraction strips.

   a. $\frac{3}{4}$ or $\frac{5}{4}$

   b. $\frac{3}{5}$ or $\frac{5}{5}$

   c. $\frac{3}{6}$ or $\frac{5}{6}$

   d. $\frac{3}{8}$ or $\frac{5}{8}$

   e. $\frac{3}{10}$ or $\frac{5}{10}$

3. What pattern do you notice about the circled fractions? How can you explain the pattern?

4. Which fraction is greater: $\frac{7}{3}$ or $\frac{10}{3}$? Explain your reasoning.

Activity 2

Fractions with the Same Numerator

1. Circle the greater fraction in each pair. If helpful, use the diagram of fraction strips from Activity 1.

   a. $\frac{1}{3}$ or $\frac{1}{5}$

   b. $\frac{2}{3}$ or $\frac{2}{5}$

   c. $\frac{3}{3}$ or $\frac{3}{5}$

   d. $\frac{4}{3}$ or $\frac{4}{5}$

   e. $\frac{9}{3}$ or $\frac{9}{5}$

2. What pattern do you notice about the circled fractions? How can you explain the pattern?

3. Which fraction is greater: $\frac{7}{12}$ or $\frac{7}{8}$? Explain your reasoning.

4. Tyler is comparing $\frac{4}{10}$ and $\frac{4}{6}$. He says, "I know 10 is greater than 6. So, $\frac{4}{10}$ is greater than $\frac{4}{6}$." Explain or show why Tyler's conclusion is incorrect.