Unit 2, Lesson 13

Use Equivalent Fractions to Compare

Let's compare fractions by writing an equivalent fraction.

Warm-up

Notice and Wonder: Pairs of Numbers

What do you notice? What do you wonder?

$5 < 8$ $\frac{9}{2} > 4\frac{1}{2}$ $4 = \frac{3}{2}$ $\frac{1}{3} < \frac{1}{2}$

Activity 1

Pairs to Compare

Here are some pairs of fractions sorted into 3 groups. Circle the greater fraction in each pair. Explain or show your reasoning.

1. Group 1:
   a. $\frac{2}{10}$ or $\frac{26}{100}$

   b. $\frac{2}{5}$ or $\frac{20}{100}$

2. Group 2:
   a. $\frac{2}{3}$ or $\frac{7}{12}$

   b. $\frac{4}{5}$ or $\frac{7}{10}$

3. Group 3:
   a. $\frac{11}{5}$ or $\frac{26}{10}$

   b. $\frac{11}{3}$ or $\frac{26}{12}$

Activity 2

New Pairs to Compare

1. Decide whether each statement is true or false. Be prepared to explain or show how you know.

   a. $\frac{5}{12} = \frac{2}{6}$

   b. $\frac{10}{3} < \frac{44}{12}$

   c. $\frac{1}{4} > \frac{25}{100}$

   d. $\frac{8}{15} < \frac{3}{5}$

2. Compare each pair of fractions. Use the symbols $>$, $<$, or $=$ to make each statement true.

   a. $\frac{6}{12}$ _____ $\frac{4}{6}$

   b. $\frac{4}{3}$ _____ $\frac{7}{6}$

   c. $\frac{8}{5}$ _____ $\frac{400}{100}$

   d. $\frac{12}{10}$ _____ $\frac{35}{5}$

   e. $\frac{11}{4}$ _____ $\frac{17}{8}$

   f. $\frac{7}{12}$ _____ $\frac{4}{3}$