Illustrative Mathematics

Grade 4 Unit 2
Lesson 13
CC BY 2021 Illustrative Mathematics®

Unit 2 Lesson 13: Use Equivalent Fractions to Compare

WU Notice and Wonder: Pairs of Numbers (Warm up)

Student Task Statement

What do you notice? What do you wonder?

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

1 Pairs to Compare

Student Task Statement

Here are some pairs of fractions sorted into three 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 $\frac{11}{100}$
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 $\frac{26}{12}$

2 New Pairs to Compare

Student Task Statement

1. Decide whether each statement is true or false. Be prepared to 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 <, =, and > 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. $\frac{7}{12}$ _____ $\frac{4}{3}$