UNIT 5

STUDENT BOOK 2 LESSON

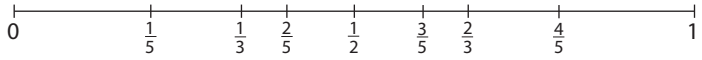
Comparing and Ordering Fractions

Quick Review

At Home At School

Here are some ways to compare and order fractions.

➤ To order $\frac{1}{2}$, $\frac{4}{5}$, and $\frac{2}{3}$:
Draw a number line.



Divide, mark, and label the number line.
From least to greatest: $\frac{1}{2}$, $\frac{2}{3}$, $\frac{4}{5}$

➤ To compare $\frac{4}{5}$ and $\frac{3}{4}$:

List equivalent fractions until the numerators or denominators are the same.

$\frac{4}{5} = \frac{8}{10} = \mathbf{\frac{12}{15}} = \mathbf{\frac{16}{20}} = \frac{20}{25}$

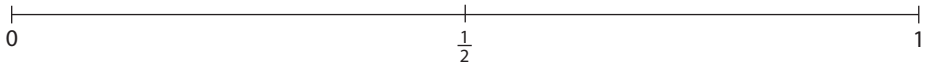
$\frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \mathbf{\frac{12}{16}} = \mathbf{\frac{15}{20}}$

Since $\frac{12}{15} > \frac{12}{16}$, then $\frac{4}{5} > \frac{3}{4}$

or, since $\frac{16}{20} > \frac{15}{20}$, then $\frac{4}{5} > \frac{3}{4}$.

Try These

1. a) Show thirds, fourths, and sixths on a number line.



b) Use the number line above to order these fractions from least to greatest: $\frac{2}{3}$, $\frac{3}{4}$, $\frac{2}{6}$.

_____

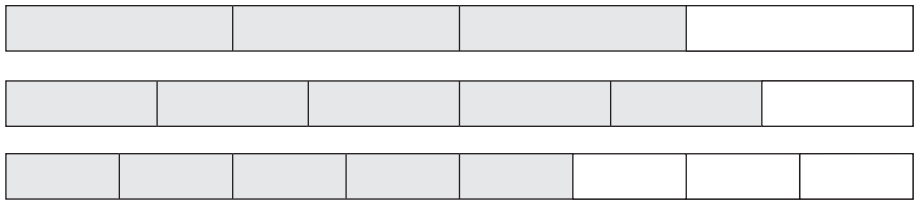
2. Use equivalent fractions to compare the fractions in each pair.

a) $\frac{4}{5}$ and $\frac{9}{10}$ _____

b) $\frac{2}{3}$ and $\frac{5}{8}$ _____

Practice

1. Use the strips below to order these fractions from least to greatest: $\frac{3}{4}$, $\frac{5}{6}$, $\frac{5}{8}$



_____

2. Use equivalent fractions to compare the fractions in each pair.
Write >, <, or =.

a) $\frac{3}{4}$ _____ $\frac{7}{8}$ **b)** $\frac{1}{2}$ _____ $\frac{3}{7}$ **c)** $\frac{2}{3}$ _____ $\frac{5}{9}$ **d)** $\frac{3}{5}$ _____ $\frac{2}{10}$

3. Which fraction in each pair is greater? Tell how you know.

a) $\frac{3}{8}$ or $\frac{5}{8}$

_____

_____

b) $\frac{4}{9}$ or $\frac{4}{7}$

_____

c) $\frac{6}{12}$ or $\frac{7}{24}$

_____

4. Name 4 fractions that are less than $\frac{2}{3}$.
Each fraction should have a different denominator.

_____

Stretch Your Thinking

1. Write a fraction to make each statement true.

a) $\frac{7}{8}$ < _____ **b)** $\frac{99}{100}$ > _____ **c)** _____ < $\frac{1}{4}$ **d)** _____ > $\frac{1}{8}$