## Mid-Chapter Review

## Frequently Asked Questions



A: Equivalent fractions are different names for the same amount. To make equivalent fractions, you can combine or split all of the equal parts of a fraction in the same way. You can also multiply or divide the numerator and denominator of a fraction by the same amount.
For example, $\frac{1}{2}$ is equivalent to $\frac{2}{4}$.
$\frac{1 \times 2}{2 \times 2}=\frac{2}{4} \quad \frac{2 \div 2}{4 \div 2}=\frac{1}{2}$
Q: How can you compare fractions?
A1: You can use a number line.
For example, to compare $\frac{4}{5}$ and $\frac{6}{10}$, use a number line with tenths and fifths.

$\frac{4}{5}>\frac{6}{10}$
A2: You can use equivalent fractions.
For example, to compare $\frac{2}{3}$ and $\frac{3}{5}$, split each fraction circle into 15 equal parts.

$\frac{3 \times 3}{5 \times 3}=\frac{9}{15}$

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\frac{10}{15}>\frac{9}{15}, \text { so } \frac{2}{3}>\frac{3}{5}
$$

## Practice

## Lesson 1

1. Show that the fractions in each pair are equivalent.
a) $\frac{3}{5}$ and $\frac{6}{10}$
b) $\frac{1}{2}$ and $\frac{4}{8}$
2. Write two equivalent fractions to represent the blue part of each shape.
a)

b)



## Lesson 3

3. Use counters to show that $\frac{9}{12}$ is equivalent to $\frac{3}{4}$.
4. Create two equivalent fractions for each fraction. Show your work.
a) $\frac{8}{10}$
b) $\frac{1}{3}$

## Lesson 4

5. Kate, Alex, and Molly are in a speed-skating race. Their positions on the track partway through the race are shown in the chart. Who is leading the race? Show your work.

## Positions of Speed Skaters

| Speed skater | Kate | Alex | Molly |
| :--- | :---: | :---: | :---: |
| Speed skater's <br> position on track | $\frac{1}{2}$ | $\frac{5}{6}$ | $\frac{2}{3}$ |

## Lesson 5

6. Compare each pair of fractions using $<,>$, or $=$. Explain your strategy.
a) $\frac{5}{8} \square \frac{3}{4}$
b) $\frac{8}{16} \square \frac{16}{32}$
c) $\frac{2}{3} \square \frac{4}{5}$
d) $\frac{1}{4} \square \frac{2}{10}$
