Name

LESSON 11.4
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Generate Equivalent Fractions

1 MP **Reason** Jordan walks $\frac{4}{10}$ mile to school. Explain how you can use multiplication or division to write an equivalent fraction for $\frac{4}{10}$. Draw visual models to show how your fractions are equivalent.

2 MP **Reason** A garden is divided into 6 equal parts. Joey plants strawberries in $\frac{1}{2}$ of the garden. He plants watermelons in the other parts. How many parts of the garden have watermelons planted in them? Explain how you can use equivalent fractions to solve.

Use multiplication or division to generate an equivalent fraction.

3 $\frac{3}{5} = \frac{\square \times 3}{\square \times 5} = \frac{\square}{\square}$

4 $\frac{2}{3} = \frac{\square \times 2}{\square \times 3} = \frac{\square}{\square}$

5 $\frac{4}{8} = \frac{4 \div \square}{8 \div \square} = \frac{\square}{\square}$

6 $\frac{9}{12} = \frac{9 \div \square}{12 \div \square} = \frac{\square}{\square}$

Write *true* or *false* for the statement.

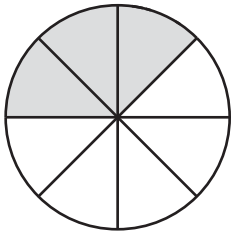
7 $\frac{6}{8} = \frac{3}{4}$ _____

8 $\frac{4}{6} = \frac{8}{12}$ _____

9 $\frac{5}{10} = \frac{1}{5}$ _____

Test Prep

10 Which fractions are equivalent to the fraction that is represented below? Select all the correct answers.



Ⓐ $\frac{6}{16}$

Ⓑ $\frac{9}{16}$

Ⓒ $\frac{9}{24}$

Ⓓ $\frac{6}{24}$

Ⓔ $\frac{1}{4}$

11 Carlos wants to find a fraction equivalent to $\frac{5}{6}$. His work is shown below. Which describes his error?

$$\frac{5}{6} = \frac{5 \times 1}{6 \times 2} = \frac{5}{12}$$

Ⓐ He multiplied the numerator and denominator by the same number.

Ⓑ He did not multiply $\frac{5}{6}$ and $\frac{1}{2}$ correctly.

Ⓒ He did not multiply the numerator by 2.

Ⓓ He multiplied $\frac{5}{6}$ by a number less than 1.

12 Generate two equivalent fractions for the fraction shown.

$$\frac{2}{3} = \frac{\square}{\square} = \frac{\square}{\square}$$

Spiral Review

13 Find all the factor pairs for the number.

30: _____

17: _____

25: _____

14 There are 3 baskets of apples. Each basket has 84 apples. The apples will be divided into 9 equal groups. How many apples will be in each group?

_____