

# Homework & Practice 8-3

## Generate Equivalent Fractions: Multiplication

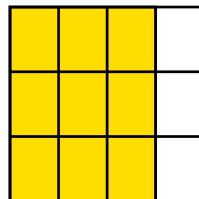
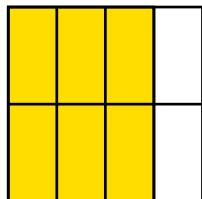
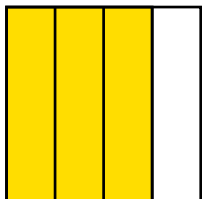
### Another Look!

Find two fractions that are equivalent to  $\frac{3}{4}$ .

Multiply the given fraction by a fraction equal to one to find equivalent fractions.

$$\frac{3}{4} \times \frac{2}{2} = \frac{6}{8}$$

$$\frac{3}{4} \times \frac{3}{3} = \frac{9}{12}$$



$\frac{2}{2}$  and  $\frac{3}{3}$  are equal to one.

$\frac{3}{4}$ ,  $\frac{6}{8}$ , and  $\frac{9}{12}$  are equivalent fractions. So,  $\frac{3}{4} = \frac{6}{8} = \frac{9}{12}$ .

For 1–6, multiply to find equivalent fractions.

1.  $\frac{5}{6} \times \frac{2}{2} = \frac{\square}{\square}$

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

3.  $\frac{3}{5} \times \frac{\square}{\square} = \frac{\square}{10}$

4.  $\frac{1}{6} \times \frac{\square}{\square} = \frac{2}{\square}$

5.  $\frac{1}{4} \times \frac{\square}{\square} = \frac{\square}{100}$

6.  $\frac{2}{3} \times \frac{\square}{\square} = \frac{8}{\square}$

For 7–14, write an equivalent fraction for each given fraction.

7.  $\frac{10}{2}$

8.  $\frac{4}{5}$

9.  $\frac{9}{3}$

10.  $\frac{3}{12}$

11.  $\frac{5}{8}$

12.  $\frac{5}{100}$

13.  $\frac{7}{12}$

14.  $\frac{9}{5}$

For 15–18, write two equivalent fractions for each given fraction.

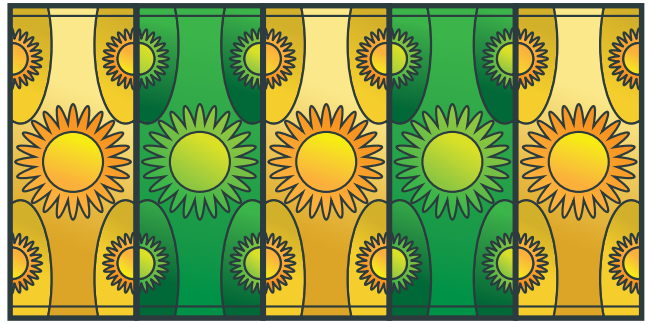
15.  $\frac{10}{12}$

16.  $\frac{4}{10}$

17.  $\frac{4}{6}$

18.  $\frac{3}{8}$

19. Write three equivalent fractions to describe the portion of the stained-glass window that is gold.



20. **Math and Science** During winter months, freshwater fish sense the water getting colder and swim to the bottoms of lakes and rivers to find warmer water. If a fish swims  $\frac{7}{8}$  of the depth of a 32-foot deep lake, how many feet down did the fish swim?

21. **A-Z Vocabulary** Use *numerator* and *denominator* to complete the sentences.

A \_\_\_\_\_ is the number above the fraction bar in a fraction. A \_\_\_\_\_ is the number below the fraction bar that represents the number of equal parts in the whole.

22. **MP.2 Reasoning** Which cost more, 8 printers priced at \$145 per printer or 3 laptop computers priced at \$439 per computer? Explain.

23. **Higher Order Thinking** Three eighths of the students in Ms. Mull's class ride the bus. If there are 24 students in the class, how many students ride the bus? Explain how to use equivalent fractions to solve.

### Common Core Assessment

24. Use each of the fractions from the box once to complete the tables.

$\frac{2}{6}$	$\frac{4}{12}$	$\frac{6}{10}$	$\frac{60}{100}$
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Fractions Equivalent to $\frac{1}{3}$

Fractions Equivalent to $\frac{3}{5}$

25. Use each of the numbers from the box once to complete the equations.

2	6	8	10	12	18
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$$\frac{5}{6} = \frac{\square}{\square}$$

$$\frac{1}{3} = \frac{\square}{\square}$$

$$\frac{9}{4} = \frac{\square}{\square}$$