



# Homework 10-2

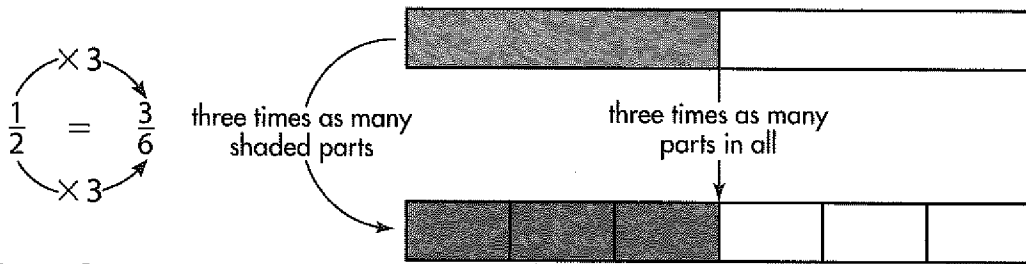
## Equivalent Fractions

### Another Look!

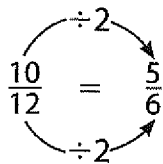
Write a fraction equivalent to  $\frac{1}{2}$  and another fraction equivalent to  $\frac{10}{12}$ .

Use multiplication to write a fraction equivalent to  $\frac{1}{2}$ .

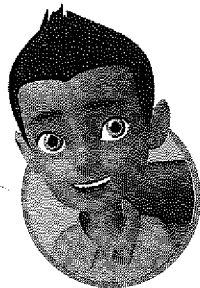
Multiply the numerator and denominator by the same number.



$\frac{1}{2}$  and  $\frac{3}{6}$  are equivalent fractions.



You could instead use division.



$\frac{10}{12}$  and  $\frac{5}{6}$  are equivalent fractions.

In 1 through 4, find the missing number.

1.  $\frac{1}{4} = \frac{\square}{8}$

2.  $\frac{9}{12} = \frac{\square}{4}$

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

4.  $\frac{4}{5} = \frac{\square}{10}$

In 5 through 8, multiply to find an equivalent fraction.

5.  $\frac{1}{3} =$

6.  $\frac{1}{2} =$

7.  $\frac{1}{6} =$

8.  $\frac{3}{4} =$

In 9 through 16, divide to find an equivalent fraction.

9.  $\frac{8}{12} =$

10.  $\frac{12}{16} =$

11.  $\frac{2}{4} =$

12.  $\frac{2}{6} =$

13.  $\frac{4}{10} =$

14.  $\frac{5}{10} =$

15.  $\frac{6}{10} =$

16.  $\frac{6}{8} =$

17. **Number Sense** Write two fractions that represent the part of the rectangle that is shaded.

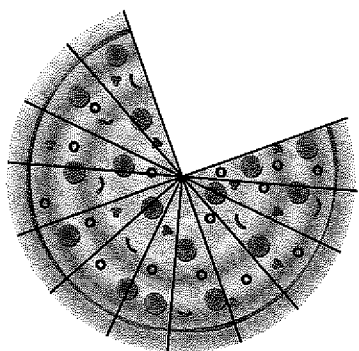


18. **Number Sense** A teacher asked her class to name three different fractions that are all equivalent to  $\frac{2}{3}$  and that have an odd denominator. List three fractions that the students might have given.

19. **Reason** Ned walks  $\frac{6}{10}$  of a mile to school. Fred walks  $\frac{9}{15}$  of a mile to school. Who walks farther? Explain.

20. **Communicate** When asked to write a fraction equivalent to  $\frac{3}{4}$ , Josie wrote  $\frac{9}{16}$ . Was she correct? Explain.

21. **Connect** Ted ate 4 pieces of pizza from the pizza below. What unit fraction describes the amount of pizza Ted ate?



- A  $\frac{4}{12}$                       C  $\frac{1}{3}$   
 B  $\frac{2}{6}$                         D  $\frac{1}{4}$

22. **Extend Your Thinking** In Missy's sports-card collection,  $\frac{3}{4}$  of the cards are baseball cards. In Frank's collection,  $\frac{8}{12}$  are baseball cards. Frank says they have the same fraction of baseball cards. Is he correct? Explain.

23. The fourth-grade students are running a food drive. They want to collect 1,000 cans of food. They need to collect 8 times as many cans as they already have in order to reach their goal. How many cans do they already have?

