

## Lesson 2 Reteach

### Multiplication and Division Equations

Use the Division Property of Equality to solve multiplication equations and the Multiplication Property of Equality to solve division equations.

The **Division Property of Equality** states that if you divide each side of an equation by the same nonzero number, the two sides remain equal.

The **Multiplication Property of Equality** states that if you multiply each side of an equation by the same number, the two sides remain equal.

#### Example 1

Solve  $30 = 6x$ .

$$30 = 6x$$

Write the equation.

$$\frac{30}{6} = \frac{6x}{6}$$

Divide each side of the equation by 6.

$$5 = x$$

$$30 \div 6 = 5.$$

The solution is 5.

#### Example 2

Solve  $\frac{x}{-5} = -2$ .

$$\frac{x}{-5} = -2$$

Write the equation.

$$\frac{x}{-5}(-5) = -2(-5)$$

Multiply each side of the equation by  $-5$ .

$$x = 10$$

$$-2(-5) = 10.$$

The solution is 10.

#### Exercises

Solve each equation. Check your solution.

1.  $3x = 12$     **4**

2.  $9k = -360$     **-40**

3.  $-15a = -45$     **3**

4.  $14 = 2b$     **7**

5.  $\frac{x}{5} = 12$     **60**

6.  $16 = \frac{a}{3}$     **48**

7.  $\frac{c}{-2} = 7$     **-14**

8.  $-7y = 42$     **-6**

9.  $\frac{m}{6} = -4$     **-24**

10.  $-2 = \frac{b}{-9}$     **18**

## Lesson 2 Skills Practice

### Multiplication and Division Equations

Solve each equation. Check your solution.

1.  $7a = 56$    **8**

2.  $-5b = -20$    **4**

3.  $14 = 14c$    **1**

4.  $\frac{e}{-9} = -6$    **54**

5.  $\frac{k}{12} = 2$    **24**

6.  $\frac{m}{6} = -10$    **-60**

7.  $66 = -11y$    **-6**

8.  $\frac{x}{19} = 4$    **76**

9.  $-15 = \frac{z}{-8}$    **120**

10.  $-3z = 93$    **-31**

11.  $5 = \frac{g}{4}$    **20**

12.  $\frac{a}{3} = -12$    **-36**

13.  $-8 = \frac{t}{9}$    **-72**

14.  $3c = 15$    **5**

15.  $-7 = \frac{w}{6}$    **-42**

16.  $-6y = -6$    **1**

17.  $18 = -9b$    **-2**

18.  $-13c = -52$    **4**

19.  $4h = -44$    **-11**

20.  $-7x = -63$    **9**