

**LESSON**  
**1-3****Practice A****Solving Equations by Multiplying or Dividing**

Solve each equation by using multiplication. Check your answers.

1.  $\frac{d}{2} = 9$

2.  $-3 = \frac{n}{7}$

3.  $\frac{t}{-3} = 5$

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4.  $\frac{2}{5}r = 8$

5.  $2.5 = \frac{b}{7}$

6.  $\frac{v}{-4} = -9$

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Solve each equation by using division. Check your answers.

7.  $-50 = 10y$

8.  $2p = 20$

9.  $3m = 3$

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10.  $-12 = -6x$

11.  $14y = -2$

12.  $6 = 0.5k$

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Answer each of the following.

13. The students at a school assembly were divided into 4 equal groups. There were 63 students in each group. Write and solve an equation to determine the number of students that were at the assembly.

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14. Anna shipped a small package from North Carolina to Virginia for \$1.15. Her package weighed 5 ounces. Write and solve an equation to determine the shipping cost per ounce.

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15. The perimeter of a square is 64 mm. Write and solve an equation to determine the length of each side of the square.

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## Review for Mastery

1.

$$x + \text{one circle with a slash} = \text{four circles}$$

4

2.

$$\text{five circles} = x + \text{two circles with slashes}$$

5

3. 8

4. 19

5. 5

6.  $x + -7 = 12$ ; 7

7.  $x + 1 = -5$ ; -1

8.  $-4 = x + -2$ ; 2

9. -16

10. -6

11. -7

## Challenge

1. a. Let  $x$  represent the distance traveled.

$$37,538 + x = 37,781$$

b. 243 miles

2.  $s + d = e$

3. a.  $e - d$

b.  $e - s$

c.  $s + d$

4. a.  $d = 1697$

b.  $s = 17,152$

c.  $e = 63,777$

d.  $d = 1111$

5.  $7\frac{2}{3}$  feet

6.  $f = o + d$ ,  $o = f - d$ , and  $d = f - o$

7.  $9\frac{5}{12}$  feet

## Problem Solving

1.  $m - 120 = 3345$ ; \$3465

2.  $w - 23 = 184$ ; 207 lbs

3.  $365 + d = 687$ ; 322 days

4.  $p + 19.9 = 53.4$ ; 33.5%

5. A

6. G

7. B

## Reading Strategies

1. addition

2. Add 5 to the left side.

3. Add 4 to both sides.

4.  $m = 13$

5.  $g = 5$

6.  $k = -3$

7.  $t = -15$

8.  $y = 2$

9.  $h = 11$

## 1-3 SOLVING EQUATIONS BY MULTIPLYING OR DIVIDING

### Practice A

1.  $d = 18$

2.  $n = -21$

3.  $t = -15$

4.  $r = 20$

5.  $b = 17.5$

6.  $v = 36$

7.  $y = -5$

8.  $p = 10$

9.  $m = 1$

10.  $x = 2$

11.  $y = -\frac{1}{7}$

12.  $k = 12$

13.  $\frac{x}{4} = 63$ ; 252 students

14.  $5x = 1.15$ ; \$0.23

15.  $4x = 64$ ; 16 mm

### Practice B

1.  $d = 48$

2.  $n = -10$

3.  $p = 27$

4.  $t = -24$

5.  $x = 10$

6.  $r = 24$

7.  $y = -7$

8.  $n = 25$

9.  $m = \frac{2}{3}$

10.  $v = 18$

11.  $b = 11.2$

12.  $r = \frac{1}{6}$

13.  $5x = 41.5$ ; 8.3 cm

14.  $0.23x = 2.07$ ; 9 oz

15.  $\frac{1}{3}x = 8$ ; \$24

### Practice C

1.  $e = 75$

2.  $g = 56$

3.  $d = 7$

4.  $n = -9$

5.  $t = 13$

6.  $r = 40$

7.  $y = -9$

8.  $f = \frac{6}{7}$