

# Extra Practice ■ Chapter 2

## LESSON 2-1

Use a number line to order the integers from least to greatest.

1. 5, -3, -1, 2, 0

2. -4, -1, 3, 1, 4

3. -5, 0, -3, 2, 4

Use a number line to find each absolute value.

4.  $|-22|$

5.  $|9|$

6.  $|-13|$

7.  $|21|$

## LESSON 2-2

Find each sum.

8.  $8 + (-4)$

9.  $-3 + (-6)$

10.  $-5 + 9$

11.  $-7 + (-2)$

Evaluate  $c + d$  for the given values.

12.  $c = 5, d = -9$

13.  $c = 12, d = 9$

14.  $c = -7, d = -2$

15.  $c = -16, d = 8$

16. The temperature in Pierre at 8:00 A.M. was  $-33^{\circ}\text{F}$ . It rose  $20^{\circ}\text{F}$  in 9 hours. What was the temperature at 5:00 P.M.?

17. A pet-sitting business's income for the month of July was \$3,680. Expenses were \$3,290. Use integer addition to find the business's total profit or loss.

## LESSON 2-3

Find each difference.

18.  $6 - (-3)$

19.  $-4 - (-8)$

20.  $2 - 7$

21.  $3 - (-4)$

Evaluate  $a - b$  for each set of values.

22.  $a = 5, b = -8$

23.  $a = -12, b = -6$

24.  $a = 6, b = 13$

25.  $a = 9, b = -17$

26. The highest mountain in the United States is Mount McKinley at about 20,320 feet. Death Valley, California, is the lowest point at about 282 feet below sea level. What is the difference between the highest and lowest points in the United States?

## LESSON 2-4

Find each product or quotient.

27.  $-9 \div 3$

28.  $8 \cdot (-3)$

29.  $16 \div 4$

30.  $-7 \cdot 3$

31.  $-2 \cdot 9$

32.  $15 \div (-5)$

33.  $6 \cdot 7$

34.  $-72 \div (-12)$

35. A submarine descends below the ocean's surface at a rate of 75 feet per minute. How many feet below the ocean's surface will the submarine be in 12 minutes?

36. While playing a board game, Rosalyn loses 2 points for each incorrect answer and gains 5 points for each correct answer. What is Rosalyn's total score if she gives 4 incorrect answers and 3 correct answers?

# Extra Practice Chapter 2

## LESSON 2-5

Solve each equation. Check your answer.

37.  $n - 25 = -18$       38.  $y + (-13) = 61$       39.  $21 = \frac{s}{4}$       40.  $15y = -45$   
 41.  $\frac{k}{-18} = 2$       42.  $h - (-7) = -42$       43.  $6 = \frac{z}{9}$       44.  $68 = 4 + p$   
 45. Martin deposited \$76 and withdrew \$100 from his bank account. He now has \$202 in his account. How much money did he start with?

## LESSON 2-6

Name the quadrant where each point is located.

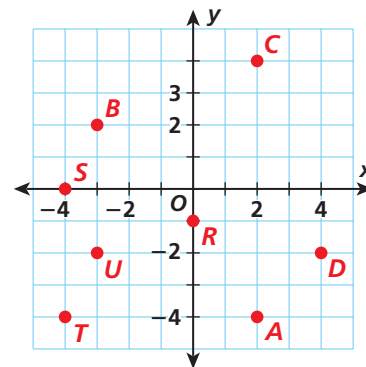
46. A      47. R      48. C      49. T

Give the coordinates of each point.

50. B      51. S      52. D      53. U

Graph each point on a coordinate plane.

54.  $M(2, -1)$       55.  $W(-4, -2)$       56.  $A(2, 3)$



## LESSON 2-7

Write an equation in two variables that gives the values in each table. Use your equation to find the value of  $y$  for the indicated value of  $x$ .

57.

$x$	1	2	3	4	5	10
$y$	6	7	8	9	10	■

58.

$x$	3	5	7	9	11	13
$y$	9	15	21	27	33	■

Write an equation for the relationship. Tell what each variable you use represents.

59. The length of a rectangle is 4 cm less than 3 times its width.  
 60. Darren's age is 5 more than 2 times Nicole's age.  
 61. Renting a canoe costs \$10 plus \$5 per hour.

## LESSON 2-8

Use the given  $x$ -values to write solutions of each equation as ordered pairs.

62.  $y = 6x + 2$  for  $x = 1, 2, 3, 4$       63.  $y = 5x - 9$  for  $x = 2, 3, 4, 5$

Determine whether the ordered pair is a solution to the given equation.

64.  $(2, 3); y = x + 1$       65.  $(9, 7); y = 3x - 12$   
 66.  $(-1, 4); y = -2x + 6$       67.  $(0, 8); y = 8x + 8$

Graph each equation.

68.  $y = 4x - 3$       69.  $y = x + 1$