ding.

Practice and Applications

Solve each equation. Check your solution.

11.
$$a + 3 = 10$$

12.
$$y + 5 = 11$$

13.
$$x + 8 = 5$$

14.
$$y + 15 = 11$$

15.
$$r + 6 = -3$$

17.
$$s - 8 = 9$$

18.
$$w - 7 = 11$$

16.
$$k + 3 = -9$$

20.
$$p - 13 = -2$$

21.
$$x - 5 = -9$$
.

19.
$$q - 8 = -1$$

23.
$$34 + r = 95$$

24.
$$64 + y = 84$$

22.
$$w - 9 = -12$$

26.
$$-59 = m - 11$$

27.
$$-18 + c = -30$$

25.
$$-23 = x - 18$$

28. $-34 = t + 9$

- 29. The sum of a number and 3 is -2. Find the number.
- 30. If you decrease a number by 4, the result is -5. Find the number.

Solve each equation. Check your solution.

31.
$$a - 3.5 = 14.9$$

32.
$$x - 2.8 = 9.5$$

33.
$$r - 8.5 = -2.1$$

34.
$$z - 9.4 = -3.6$$

35.
$$n + 1.4 = 0.72$$

36.
$$b + 2.25 = 1$$

ROLLER COASTERS For Exercises 37 and 38, use the table.

- 37. Superman The Escape is 105 feet taller than Millennium Force. Write and solve an addition equation that you could use to find the height of Millennium Force.
- 38. The difference in the speeds of Superman The Escape and Millennium Force is 7 miles per hour. If Superman The Escape has the greater speed, write and solve a subtraction equation to find its speed.
- 39. **CRITICAL THINKING** Suppose x + y = 10 and the value of *x* increases by 3. What must happen to the value of *y* so that x + y = 10 is still a true sentence?

Height (feet)	Speed (mph)
415	?
? (93
245	85
	85
230	80
	(feet) 415 ? 245 235

HOMEWORK HELP

For Exercises | See Examples

Extra Practice

See pages 572, 599

2

11-16

17-22

29-30, 37-38

Spiral Review with Standardized Test Practice



- 40. MULTIPLE CHOICE The Sears Tower in Chicago is 1,454 feet tall. It is 204 feet taller than the Empire State Building in New York City. Use the equation e + 204 = 1,454 to find the height of the Empire State Building.
 - A 1,250 ft
- ® 1,350 ft
- © 1,450 ft
- ① 1,650 ft
- 41. **GRID IN** If x + 3 = 2, what is the value of 2x + 5?
- 42. **ALGEBRA** Write an expression for 6 inches less than w. (Lesson 4-1)

Divide. (Lesson 3-7)

43.
$$-15 \div 3$$

44.
$$36 \div (-9)$$

45.
$$-63 \div (-7)$$

GETTING READY FOR THE NEXT LESSON

PREREQUISITE SKILL Divide. (Page 562)

50.
$$0.76 \div 0.5$$