Practice

For use with pages 119-124

Tell whether the given value of the variable is a solution of the equation.

1.
$$6x - 7 = 17$$
; $x = 4$

2.
$$1 = 4x + 9$$
; $x = -2$

3.
$$8-3x=5$$
; $x=-1$

4.
$$-15 = -3x + 15$$
; $x = 5$

5.
$$\frac{x}{5} - 6 = -2$$
; $x = 20$

4.
$$-15 = -3x + 15$$
; $x = 5$ **5.** $\frac{x}{5} - 6 = -2$; $x = 20$ **6.** $-6 = \frac{x}{2} - 7$; $x = -2$

Solve the equation. Check your solution.

7.
$$7x + 12 = 26$$

8.
$$2x + 9 = -5$$

9.
$$-4 = 9x + 23$$

10.
$$-10 = 6x - 16$$

11.
$$25 - 3x = -8$$

12.
$$4x - 15 = 25$$

13.
$$70 = 19 - 3x$$

14.
$$-2x - 47 = -11$$

15.
$$-14 = -22 - \frac{x}{3}$$

16.
$$\frac{x}{12} + 13 = 18$$

$$\mathbf{17.} \quad -10 = 8 - \frac{x}{7}$$

18.
$$3 = \frac{x}{25} + 6$$

19.
$$250 = 124 - 3x$$

20.
$$-\frac{x}{9} - 12 = -23$$

21.
$$56 - \frac{x}{15} = 47$$

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14	21			
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Practice

For use with pages 119-124

Write the verbal sentence as an equation. Then solve the equation.

- 22. Fourteen minus the product of 3 and a number is 26.
- 23. Negative seven minus the product of 5 and number is 28.
- **24.** Eleven minus the quotient of a number and 8 is 15.
- 25. Negative sixteen plus the quotient of a number and 2 is 35.
- **26.** Thirty-nine minus a number is -19.
- **27.** Fifteen people volunteer for a park cleanup. The number of volunteers increases by 7 people each month for several months. After how many months will there be 50 volunteers?
- **28.** You have a \$100 gift card to spend at a store. You buy a portable compact disc player for \$45. Compact discs are on sale for \$11 each. How many compact discs can you buy with the money remaining on the gift card?
- 29. A group of 4 friends are playing golf. The total cost of the round of golf is \$108. Each person in the group has the same coupon. The total cost of the round with the coupons is \$76. How much is the coupon worth?
- **30.** A school makes \$715 from ticket sales for a school play. From the ticket sales, \$448 is from adult tickets. Student tickets are \$3 each. How many students attended the play?
- **31.** You are rock climbing and descending a cliff at a rate of about 9 feet per minute. The cliff is about 360 feet high.
 - a. How long until you are at a height of 234 feet?
 - b. How long until you are halfway down the cliff?