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$\qquad$

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

1. $6 x-7=17 ; x=4$
2. $1=4 x+9 ; x=-2$
3. $8-3 x=5 ; x=-1$
4. $-15=-3 x+15 ; x=5$
5. $\frac{x}{5}-6=-2 ; x=20$
6. $-6=\frac{x}{2}-7 ; x=-2$

Solve the equation. Check your solution.
7. $7 x+12=26$
8. $2 x+9=-5$
9. $-4=9 x+23$
10. $-10=6 x-16$
11. $25-3 x=-8$
12. $4 x-15=25$
13. $70=19-3 x$
14. $-2 x-47=-11$
15. $-14=-22-\frac{x}{3}$
16. $\frac{x}{12}+13=18$
17. $-10=8-\frac{x}{7}$
18. $3=\frac{x}{25}+6$
19. $250=124-3 x$
20. $-\frac{r}{9}-12=-23$
21. $56-\frac{x}{15}=47$

LESSON


Continued
$\qquad$

## Witte 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?
