

2-2**Practice**

Form G

Solving Two-Step Equations

Solve each equation. Check your answer.

1. $6 + 3b = -18$

2. $-3 + 5x = 12$

3. $7n + 12 = -23$

4. $\frac{l}{6} - 3 = 8$

5. $-12 = 8 + \frac{f}{2}$

6. $13 = 8 - 5d$

7. $\frac{k}{4} + 6 = -2$

8. $-22 = -8 + 7y$

9. $16 - 3p = 34$

10. $15 + \frac{q}{6} = -21$

11. $-19 + \frac{c}{3} = 8$

12. $-18 - 11r = 26$

13. $-9 + \frac{y}{-3} = -6$

14. $14 + \frac{m}{10} = 24$

Define a variable and write an equation for each situation. Then solve.

15. Chip earns a base salary of \$500 per month as a salesman. In addition to the salary, he earns \$90 per product that he sells. If his goal is to earn \$5000 per month, how many products does he need to sell?
16. A pizza shop charges \$9 for a large cheese pizza. Additional toppings cost \$1.25 per topping. Heather paid \$15.25 for her large pizza. How many toppings did she order?

2-2 Practice (continued)

Solving Two-Step Equations

Form G

Solve each equation. Check your answer.

17. $\frac{x+6}{3} = 8$

18. $\frac{n-7}{2} = -11$

19. $\frac{j+18}{-4} = 8$

20. $\frac{1}{3}a - 6 = -15$

21. $\frac{1}{4} = \frac{1}{4}h + 4$

22. $6.42 - 10d = 2.5$

23. The selling price of a television in a retail store is \$66 less than 3 times the wholesale price. If the selling price of a television is \$899, write and solve an equation to find the wholesale price of the television.
24. The fare for a taxicab is \$5 per trip plus \$0.50 per mile. The fare for the trip from the airport to the convention center was \$11.50. Write and solve an equation to find how many miles the trip is from the airport to the convention center.
25. An online movie club offers a membership for \$5 per month. Members can rent movies for \$1.50 per rental. A member was billed \$15.50 one month. Write and solve an equation to find how many movies the member rented.
26. **Writing** Describe, using words, how to solve the equation $6 - 4x = 18$. List any properties utilized in the solution.
27. a. Solve $-8 = \frac{x+2}{4}$
- b. Write the right side of the equation in part (a) as the sum of two fractions. Solve the equation.
- c. Did you find the equation in part (a) or the rewritten equation easier to solve? Why?