

Practice**The Distributive Property**

Use the Distributive Property to write each expression as an equivalent expression. Then evaluate the expression.

1. $6(80 + 1)$

2. $7(70 - 4)$

3. $(300 + 6)4$

4. $(100 + 10)9$

5. $5(400 - 90)$

6. $-8(700 - 3)$

7. $4(20 - 9)$

8. $(100 - 3)(-7)$

9. $-1(75 - 9)$

10. $14(21 - 11)$

11. $-25(80 + 2)$

12. $31(450 - 18)$

Use the Distributive Property to write each expression as an equivalent algebraic expression.

13. $7(y + 11)$

14. $-6(t - 1)$

15. $-8(u - 2)$

16. $(r + 9)(-4)$

17. $-1(-h + 5)$

18. $-2(f + 3)$

19. $-4(b - 1)$

20. $1(7 - v)$

21. $-2(d - 5)$

22. $22(n + 10)$

23. $-50(z - 1)$

24. $-12(g + 12)$

25. $17(p + 4)$

26. $(k - 21)(-8)$

27. $(-32 - s)(-9)$

28. $-28(a - 5)$

29. $-20(19 - a)$

30. $33(d + 4)$

31. $-18(-q - 5)$

32. $-16(c + 45)$

33. $-19(v - 1)$

34. $-1(r + 27)$

35. $53(x + 11)$

36. $-17(-n + 1)$

37. PLANTS A planter weighs 2 pounds and holds 3 pounds of soil. Write two equivalent expressions for the total weight of nine planters. Then find the weight.

38. UNIFORMS A uniform costs \$42 for the sweater and \$29 for the slacks. Write two equivalent expressions for the total cost of six uniforms. Then find the cost.

Skills Practice**Simplifying Algebraic Expressions**

Identify the terms, like terms, coefficients, and constants in each expression.

1. $7a + a$

2. $3k + g - k$

3. $m + 3m + 8$

4. $10b - bc + 1 + 3bc$

5. $9j + 8j - 4 - 7j$

6. $6y + 3x + 6y - 2x$

7. $3q + 2 - 7p$

8. $18 + 7x - 12 + 5x$

9. $12a + 3b + 18 - 9a$

Simplify each expression.

10. $13c - 7 + c - d$

11. $5h + h - 4h + 1 - 2h$

12. $2(v - 5) + 7v + 4$

13. $5(r + 9) - 5$

14. $1 - 4(u - 1)$

15. $-7(w - 4) + 3w - 27$

16. $-8 - 7(y + 2)$

17. $-18(c - 1) - 18$

18. $12(n - 4) - 3n$

19. $5m - 9 + 4m$

20. $-7 + g + 1 - 6g$

21. $x - 9x + 3 + 8x - 3$

22. $6(r - 4) + r + 30 - 7r$

23. $-5 + 5a - 4 - 2a + 3a$

24. $21 - 8(v + 3) + 3 + 7v$

25. $4x - 9 + 3x + 6 - 9x - 4$

26. $p - 2 + 1 - p + 1 + 2p$

27. $-11f + 6 - f + 4 + 13f - 9$

28. $3(d - 4) + 2 - 2d + 1 - d$

29. $1 - s + 2 + 2s - 3s + 1$

30. $5 - 9k + 1 + k - 2(7 - k)$