Solve each equation. Check your solution.

41. $2p + 15 = 29$
42. $14 - 3n = -10$
43. $7a - 3a + 2a - a = 16$
44. $x + 9x - 6x + 4x = 20$
45. $\frac{1}{9} - \frac{2}{3}b = \frac{1}{18}$
46. $\frac{5}{8} + \frac{3}{4}x = \frac{1}{16}$
47. $27 = -9(y + 5)$
48. $-7(p + 8) = 21$
49. $3f - 2 = 4f + 5$
50. $3d + 7 = 6d + 5$
51. $4.3n + 1 = 7 - 1.7n$
52. $1.7x - 8 = 2.7x + 4$
53. $3(2z + 25) - 2(z - 1) = 78$
54. $4(k + 3) + 2 = 4.5(k + 1)$
55. $\frac{3}{11}a - 1 = \frac{7}{11}a + 9$
56. $\frac{2}{5}x + \frac{3}{7} = 1 - \frac{4}{7}x$

Solve each equation or formula for the specified variable.

57. $d = rt$, for r
58. $x = \frac{-b}{2a}$, for a
59. $V = \frac{1}{3}\pi r^2 h$, for h
60. $A = \frac{1}{2}h(a + b)$, for b
61. $\frac{a(b - 2)}{c - 3} = x$, for b
62. $x = \frac{y}{y + 4}$, for y

Define a variable, write an equation, and solve the problem.

63. **BOWLING** Jon and Morgan arrive at Sunnybrook Lanes with \$16.75. Find the maximum number of games they can bowl if they each rent shoes.