

Solve each equation. Check your solution.

41. $2p + 15 = 29$

43. $7a - 3a + 2a - a = 16$

45. $\frac{1}{9} - \frac{2}{3}b = \frac{1}{18}$

47. $27 = -9(y + 5)$

49. $3f - 2 = 4f + 5$

51. $4.3n + 1 = 7 - 1.7n$

53. $3(2z + 25) - 2(z - 1) = 78$

55. $\frac{3}{11}a - 1 = \frac{7}{11}a + 9$

42. $14 - 3n = -10$

44. $x + 9x - 6x + 4x = 20$

46. $\frac{5}{8} + \frac{3}{4}x = \frac{1}{16}$

48. $-7(p + 8) = 21$

50. $3d + 7 = 6d + 5$

52. $1.7x - 8 = 2.7x + 4$

54. $4(k + 3) + 2 = 4.5(k + 1)$

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

59. $V = \frac{1}{3}\pi r^2 h$, for h

61. $\frac{a(b - 2)}{c - 3} = x$, for b

58. $x = \frac{-b}{2a}$, for a

60. $A = \frac{1}{2}h(a + b)$, 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.

SUNNYBROOK LANES

Shoe Rental: \$1.50

Games: \$2.50 each

