

TEST BANK



INTRODUCTORY ALGEBRA

TWELFTH EDITION



BITTINGER / BECHER / JOHNSON

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Decide if the given number is a solution to the given equation.

1) $3x = 24$; 4
A) No B) Yes 1) _____

2) $\frac{x}{8} = 5$; 40
A) Yes B) No 2) _____

3) $p + 13 = 20$; 7
A) Yes B) No 3) _____

4) $p - 6 = 5$; 11
A) Yes B) No 4) _____

5) $5m + 5 = 42$; 7
A) Yes B) No 5) _____

6) $5p + 3p - 2 = 62$; 8
A) No B) Yes 6) _____

Solve the equation using the addition principle.

7) $x - 7 = -6$
A) 13 B) 1 C) -13 D) -1 7) _____

8) $b + 3 = 6$
A) -9 B) 3 C) -3 D) 9 8) _____

9) $8 = x + 7$
A) -1 B) -15 C) 15 D) 1 9) _____

10) $-18 = a - 24$
A) 42 B) -6 C) -42 D) 6 10) _____

11) $x - 19.33 = 0$
A) -18.33 B) 19.33 C) 18.33 D) -19.33 11) _____

12) $-7 + x = 18$
A) -25 B) -11 C) 11 D) 25 12) _____

13) $24 = -12 + z$
A) -12 B) -36 C) 36 D) 12 13) _____

14) $-19.5 = 24.5 + x$
A) 5 B) 44 C) -5 D) -44 14) _____

15) $\frac{1}{2} + x = 4$ 15) _____
A) $\frac{7}{2}$ B) 7 C) $\frac{3}{2}$ D) $\frac{9}{2}$

16) $h + \frac{3}{11} = \frac{6}{11}$ 16) _____
A) $\frac{5}{11}$ B) $\frac{3}{11}$ C) 3 D) $\frac{9}{11}$

17) $k - \frac{3}{5} = \frac{9}{10}$ 17) _____
A) $\frac{3}{2}$ B) $\frac{4}{5}$ C) $\frac{3}{10}$ D) 3

18) $x + 1\frac{2}{3} = 4$ 18) _____
A) 7 B) $\frac{17}{3}$ C) $\frac{11}{3}$ D) $\frac{7}{3}$

19) $x - \frac{9}{10} = -\frac{2}{5}$ 19) _____
A) $\frac{13}{10}$ B) $-\frac{13}{10}$ C) $\frac{1}{2}$ D) $-\frac{1}{2}$

Solve using the multiplication principle.

20) $9x = 90$ 20) _____
A) 81 B) 10 C) 810 D) $\frac{1}{10}$

21) $45 = 9x$ 21) _____
A) 405 B) 5 C) $\frac{1}{5}$ D) 36

22) $-x = -20$ 22) _____
A) -19 B) -20 C) $-\frac{1}{20}$ D) 20

23) $-9a = 36$ 23) _____
A) -4 B) -45 C) 1 D) 45

24) $18 = -2k$ 24) _____
A) -20 B) 1 C) 20 D) -9

25) $-8x = -24$ 25) _____
A) 2 B) -16 C) 16 D) 3

- 38) $-\frac{1}{8}z = \frac{1}{9}$ 38) _____
 A) $\frac{8}{9}$ B) $-\frac{8}{9}$ C) $-\frac{9}{8}$ D) $-8\frac{1}{9}$
- 39) $-\frac{8}{9}t = \frac{5}{7}$ 39) _____
 A) $\frac{45}{56}$ B) $-\frac{56}{45}$ C) $-\frac{45}{56}$ D) $\frac{45}{7}$
- 40) $\frac{8}{63}x = -\frac{16}{21}$ 40) _____
 A) $-\frac{32}{27}$ B) $-\frac{3}{2}$ C) -6 D) $-\frac{27}{32}$
- 41) $-\frac{4}{21}y = -\frac{8}{45}$ 41) _____
 A) $\frac{35}{24}$ B) $\frac{24}{35}$ C) $\frac{21}{10}$ D) $\frac{14}{15}$
- 42) $6.5x = 19.5$ 42) _____
 A) 3 B) 13 C) 16.5 D) $\frac{1}{3}$
- 43) $59.5 = 8.5y$ 43) _____
 A) $\frac{1}{7}$ B) 51 C) 52.5 D) 7
- 44) $-5.8y = 46.4$ 44) _____
 A) -40.6 B) $-\frac{1}{8}$ C) -38.4 D) -8
- 45) $3.1t = -12.4$ 45) _____
 A) -8.4 B) $-\frac{1}{4}$ C) -4 D) -9.3
- 46) $-61.2 = 6.8z$ 46) _____
 A) -9 B) $-\frac{1}{9}$ C) -54.4 D) -52.2
- 47) $-7.3m = -21.9$ 47) _____
 A) 18.9 B) $\frac{1}{3}$ C) 3 D) 14.6

48) $41.1x = 575.4$ 48) _____
A) 534.3 B) 561.4 C) 14 D) $\frac{1}{14}$

49) $-13.9y = 55.6$ 49) _____
A) -41.7 B) $-\frac{1}{4}$ C) -51.6 D) -4

50) $45.8t = -641.2$ 50) _____
A) -627.2 B) $-\frac{1}{14}$ C) -595.4 D) -14

51) $-44.9m = -583.7$ 51) _____
A) 570.7 B) 13 C) $\frac{1}{13}$ D) 538.8

52) $\frac{1}{5}b = -3.51$ 52) _____
A) -2.00 B) 0.49 C) -17.55 D) 1.49

53) $-\frac{5}{8}x = -30.8$ 53) _____
A) 49.28 B) 22.8 C) 33.84 D) 44.28

54) $-\frac{7}{4}x = 52.85$ 54) _____
A) -20.45 B) -48.85 C) -23.2 D) -30.2

Solve.

55) $6r + 2 = 56$ 55) _____
A) 7 B) 9 C) 48 D) 52

56) $7n - 9 = 5$ 56) _____
A) 7 B) 11 C) 2 D) 9

57) $25 = 8x - 7$ 57) _____
A) 28 B) 10 C) 24 D) 4

58) $152 = 11x + 20$ 58) _____
A) 125 B) 121 C) 6 D) 12

59) $7x + 6 = -15$ 59) _____
A) $-\frac{9}{7}$ B) -2 C) -3 D) -28

- 60) $9 - 5p = -7$ 60) _____
 A) $-\frac{16}{5}$ B) $-\frac{2}{5}$ C) $-\frac{1}{5}$ D) $\frac{16}{5}$
- 61) $-6x - 11 = -131$ 61) _____
 A) $\frac{71}{3}$ B) -20 C) -114 D) 20
- 62) $-9n - 2 = 34$ 62) _____
 A) -4 B) 31 C) 4 D) -27
- 63) $-17 = -2x + 1$ 63) _____
 A) 16 B) 20 C) -9 D) 9
- 64) $\frac{1}{5}f - 5 = 1$ 64) _____
 A) -8 B) -30 C) 30 D) 8
- 65) $\frac{1}{2}a - \frac{1}{2} = -3$ 65) _____
 A) -7 B) 5 C) -5 D) 7
- 66) $12x + 7x = 114$ 66) _____
 A) 6 B) 95 C) $\frac{19}{14}$ D) $\frac{19}{2}$
- 67) $-5x - 8x = 65$ 67) _____
 A) -4 B) 5 C) -5 D) 78
- 68) $6y + 4 = 4y$ 68) _____
 A) $\frac{2}{5}$ B) -2 C) 2 D) $-\frac{2}{5}$
- 69) $9x + 4 = 2x + 53$ 69) _____
 A) $\frac{49}{11}$ B) $\frac{57}{11}$ C) 7 D) 9
- 70) $9x - 2 = 142 - 7x$ 70) _____
 A) 70 B) 72 C) -9 D) 9
- 71) $8y - 5 = 58 + y$ 71) _____
 A) $\frac{53}{7}$ B) 7 C) $\frac{53}{9}$ D) 9
- 72) $1 - 10x = 5x - 8x - 20$ 72) _____
 A) $\frac{20}{7}$ B) 3 C) $\frac{20}{13}$ D) $\frac{19}{13}$

73) $-7a + 5 + 8a = 6 - 29$

A) -28

B) -40

C) 28

D) 40

73) _____

74) $-9b + 1 + 7b = -3b + 6$

A) -1

B) -6

C) 6

D) 5

74) _____

75) $8x - 5 + 8x = 5x + 21 - 2x$

A) 3

B) 2

C) 4

D) 1

75) _____

Solve. Clear fractions first.

76) $\frac{1}{18}y - 1 = 2$

A) 56

B) -56

C) 54

D) -54

76) _____

77) $\frac{5}{3}y - 15 = -10$

A) 15

B) -3

C) 1

D) 3

77) _____

78) $x + \frac{1}{2}x = 21$

A) 42

B) 7

C) 17

D) 14

78) _____

79) $\frac{2}{5}x - \frac{1}{3}x = 5$

A) -150

B) 150

C) -75

D) 75

79) _____

80) $\frac{1}{3}r + 2 = \frac{1}{6}r + \frac{4}{3}$

A) -4

B) 3

C) 4

D) -12

80) _____

81) $\frac{6}{7} + \frac{1}{8}x = 4$

A) $-\frac{16}{7}$

B) $-\frac{7}{4}$

C) $\frac{160}{7}$

D) $\frac{176}{7}$

81) _____

82) $\frac{3}{4} + 4y = 5y - \frac{1}{12}$

A) $\frac{5}{6}$

B) $\frac{5}{54}$

C) $\frac{2}{3}$

D) $\frac{1}{3}$

82) _____

83) $\frac{3}{4}x - \frac{1}{3}x = \frac{7}{6}x + 1$

A) $\frac{24}{17}$

B) $-\frac{4}{3}$

C) $\frac{12}{19}$

D) $-\frac{1}{18}$

83) _____

84) $x + \frac{4}{3} + \frac{5}{8}x = \frac{5}{2} + \frac{5}{4}x$ 84) _____
 A) $\frac{11}{3}$ B) $\frac{32}{19}$ C) $\frac{28}{9}$ D) $\frac{28}{19}$

85) $\frac{11}{10}x + \frac{1}{10}x = 7x + \frac{1}{5} + \frac{9}{10}x$ 85) _____
 A) $\frac{1}{67}$ B) $-\frac{2}{67}$ C) $-\frac{1}{67}$ D) $\frac{2}{73}$

Solve.

86) $13.9x + 11.2x = 401.6$ 86) _____
 A) 17 B) 15 C) 16 D) 18

87) $13.5y - 5.7y = 148.2$ 87) _____
 A) 18 B) 20 C) 21 D) 19

88) $4.8x - 13.2x = -151.2$ 88) _____
 A) 19 B) 18 C) 20 D) 17

Solve. Clear decimals first.

89) $12.8t + 76.8 = 44.8t + 268.8$ 89) _____
 A) 30 B) -30 C) -6 D) 6

90) $1.7x + 1.3 = -74.3 + 10.1x$ 90) _____
 A) 7.7 B) 9 C) -84 D) 7.5

91) $1.3y + 3.4 = 0.6y - 1.15$ 91) _____
 A) -6.435 B) -6.5 C) -6.49 D) 0.154

92) $-6.4q + 1.6 = -56 - 1.6q$ 92) _____
 A) 9.0 B) 12 C) -62 D) 9.3

93) $10.2y - 71.4 = 30.6y - 214.2$ 93) _____
 A) 28 B) 7 C) -28 D) -7

94) $6.96x + 48.72 = 2.32x + 16.24$ 94) _____
 A) -28 B) 7 C) 28 D) -7

95) $5.72t - 40.04 = 2.86t - 20.02$ 95) _____
 A) 14 B) 7 C) -14 D) -7

96) $8.35y - 50.1 + 5.01y = 3.34y - 20.04 + 30.06$ 96) _____
 A) -6 B) 6 C) 18 D) -18

Solve.

97) $6(x - 24) = 12$ 97) _____
 A) 12 B) 22 C) 26 D) 24

- 98) $8x - (6x - 1) = 2$ 98) _____
 A) $-\frac{1}{2}$ B) $\frac{1}{14}$ C) $-\frac{1}{14}$ D) $\frac{1}{2}$
- 99) $6(8x - 1) = 24$ 99) _____
 A) $\frac{3}{8}$ B) $\frac{23}{48}$ C) $\frac{25}{48}$ D) $\frac{5}{8}$
- 100) $5(2z - 3) = 9(z + 4)$ 100) _____
 A) 51 B) 21 C) 26 D) -21
- 101) $\frac{1}{5}(20x - 25) = \frac{1}{3}(15x - 12)$ 101) _____
 A) -1 B) 1 C) -20 D) $\frac{1}{20}$
- 102) $(y - 9) - (y + 8) = 4y$ 102) _____
 A) $-\frac{17}{4}$ B) $-\frac{1}{2}$ C) $-\frac{17}{2}$ D) $-\frac{1}{4}$
- 103) $3(8x - 20) = 4(15x - 6)$ 103) _____
 A) -7 B) $\frac{1}{7}$ C) 1 D) -1
- 104) $2(x + 7) + 11 = 5(x + 4) + 14$ 104) _____
 A) 10 B) -3 C) 15 D) 5
- 105) $5 - 2(x + 3) = 7 - 4(x + 1)$ 105) _____
 A) 2 B) 4 C) 8 D) 12
- 106) $5[3 - 3(x + 1)] + 1 = 2(-39 - x) + 2x + 39$ 106) _____
 A) $\frac{8}{6}$ B) 0 C) $\frac{8}{3}$ D) 8
- 107) $0.8(5x + 15) = 2.2 - (x + 3)$ 107) _____
 A) $\frac{17}{50}$ B) $-\frac{125}{41}$ C) $-\frac{64}{25}$ D) $\frac{17}{3}$
- 108) $2.5(x + 2.5) - 11.5 = 4(x + 1) - 13$ 108) _____
 A) 2.5 B) 8.5 C) 12.5 D) 4.5
- 109) $12.8 - 7.8(x + 1.2) = 13 - 8(x + 1)$ 109) _____
 A) 25.8 B) 9.8 C) 7.8 D) 17.8
- 110) $5x - 2 + 9x - 5 = 7x + 7x + 7$ 110) _____
 A) 0 B) 7
 C) No solution D) All real numbers

- 111) $-5 + x = x - 5$ 111) _____
 A) No solution B) All real numbers
 C) 0 D) 10
- 112) $2(x + 5) - (2x + 10) = 0$ 112) _____
 A) 5 B) All real numbers
 C) No solution D) 0
- 113) $5(2f - 31) = 10f - 155$ 113) _____
 A) 0 B) 1
 C) No solution D) All real numbers
- 114) $3(3g - 22) - 9g + 66 = 0$ 114) _____
 A) All real numbers B) -3
 C) No solution D) 3
- 115) $8k + 78 = 4(2k + 19)$ 115) _____
 A) 2 B) -2
 C) All real numbers D) No solution
- 116) $-25s + 88 + 5(5s - 16) = 0$ 116) _____
 A) 1 B) No solution
 C) All real numbers D) 5
- 117) $2[3 - (9 - 5r)] - r = -18 + 3(2 + 3r)$ 117) _____
 A) All real numbers B) -9
 C) No solution D) 18

Evaluate the formula for the given values of the variables.

- 118) $P = 2L + 2W$; $L = 7$ in., $W = 6$ in. 118) _____
 A) $P = 13$ in. B) $P = 168$ in. C) $P = 84$ in. D) $P = 26$ in.
- 119) $d = rt$; $r = 59$ miles per hour, $t = 3$ hours 119) _____
 A) $d = 62$ miles B) $d = 354$ miles C) $d = 177$ miles D) $d = \frac{59}{3}$ miles
- 120) When all n teams in a league play every other team twice, a total of N games are played, where $N = n^2 - n$. A basketball league has 12 teams and all teams play each other twice. How many games are played? 120) _____
 A) 132 games B) 12 games C) 36 games D) 156 games

Solve.

- 121) $A = \frac{1}{2}bh$ for h 121) _____
 A) $h = \frac{A}{2b}$ B) $h = \frac{Ab}{2}$ C) $h = \frac{2A}{b}$ D) $h = \frac{b}{2A}$

122) $V = \frac{1}{3}Bh$ for h 122) _____

A) $h = \frac{B}{3V}$ B) $h = \frac{V}{3B}$ C) $h = \frac{3V}{B}$ D) $h = \frac{3B}{V}$

123) $F = \frac{9}{5}C + 32$ for C 123) _____

A) $C = \frac{9}{5}(F - 32)$ B) $C = \frac{5}{F - 32}$ C) $C = \frac{5}{9}(F - 32)$ D) $C = \frac{F - 32}{9}$

124) $a + b = s + r$ for s 124) _____

A) $s = \frac{a + b}{r}$ B) $s = \frac{a}{r} + b$ C) $s = r(a + b)$ D) $s = a + b - r$

125) $x = \frac{w + y + z}{9}$ for y 125) _____

A) $y = 9x + w + z$ B) $y = x - w - z - 9$
 C) $y = 9x - 9w - 9z$ D) $y = 9x - w - z$

126) $V = 6s^3$ for s^3 126) _____

A) $s^3 = V - 6$ B) $s^3 = \frac{V}{6}$ C) $s^3 = \frac{6}{V}$ D) $s^3 = 6V$

Solve the problem. Round to the nearest hundredth, if necessary.

127) What is 10% of 500? 127) _____

A) 5 B) 50 C) 500 D) 0.5

128) What is 5% of 600? 128) _____

A) 30 B) 3 C) 0.3 D) 300

129) What is 33% of 1955? 129) _____

A) 645.15 B) 64.52 C) 64,515 D) 6451.5

130) What is 90% of 112? 130) _____

A) 10,080 B) 100.8 C) 1008 D) 10.08

131) What number is 8.1% of 45? 131) _____

A) 0.37 B) 36.5 C) 365 D) 3.65

132) What number is 5000% of 430? 132) _____

A) 215,000 B) 21,500 C) 2150 D) 2,150,000

133) What number is 160% of 335? 133) _____

A) 5360 B) 53,600 C) 53.6 D) 536

134) 68 is 30% of what number? 134) _____

A) 2266.7 B) 20.4 C) 226.67 D) 22.67

- 135) 18 is 9% of what number? 135) _____
 A) 162 B) 2000 C) 200 D) 20
- 136) 43% of what number is 67? 136) _____
 A) 155.81 B) 64 C) 0.64 D) 1558.1
- 137) 70% of what number is 78? 137) _____
 A) 11.14 B) 111.43 C) 54.6 D) 1114.3
- 138) 57 is 124% of what number? 138) _____
 A) 153.76 B) 459.7 C) 15,376 D) 45.97

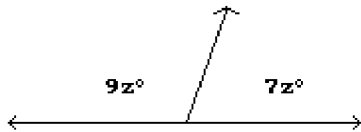
Solve the problem. Round to the nearest tenth of a percent.

- 139) 913 is what percent of 1898? 139) _____
 A) 48.1% B) 207.9% C) 0.1% D) 0.5%
- 140) 957 is what percent of 742? 140) _____
 A) 129.0% B) 1.3% C) 0.1% D) 77.5%
- 141) 3.5 is what percent of 17.8? 141) _____
 A) 0.2% B) 508.6% C) 19.7% D) 5.1%
- 142) What percent of 2434 is 17? 142) _____
 A) 17.0% B) 7.0% C) 14,317.6% D) 0.7%
- 143) What percent of 7 is 0.03? 143) _____
 A) 42.9% B) 233.3% C) 0.4% D) 4.3%
- 144) What percent of 112 is 17.4? 144) _____
 A) 15.5% B) 0.2% C) 643.7% D) 0.1%
- 145) What percent of 55 is 563? 145) _____
 A) 1.0% B) 0.1% C) 1023.6% D) 102.4%
- 146) 64.6 is what percent of 7? 146) _____
 A) 10.8% B) 9229.0% C) 922.9% D) 1.1%
- 147) What percent of 23 is 23? 147) _____
 A) 200% B) 0% C) 100% D) 1%
- 148) What percent of 94 is 47? 148) _____
 A) 50% B) 2% C) 0% D) 200%

- 154) During one year, the Green's real estate bill included \$308 for city services. The fire department received 38% of that amount. How much money went to the fire department? 154) _____
 A) \$117.04 B) \$62.00 C) \$11.70 D) \$97.04
- 155) During one year, the Cheung's real estate bill included \$338 for county services. Of this amount, \$112 went to the highway department. What percent did the county highway department receive? (Round answer to two decimal places.) 155) _____
 A) 66.86% B) 33.14% C) 32.84% D) 11.20%
- 156) During one year, the Schmidt's real estate bill included \$246 for miscellaneous services. Of this amount, 48% went to the library fund. How much money did the library receive? 156) _____
 A) \$80.49 B) \$98.08 C) \$118.08 D) \$93.48
- 157) Sarah left a 15% tip of \$10.05 for a meal. What was the cost of the meal before the tip? 157) _____
 A) \$1.51 B) \$20.10 C) \$77.05 D) \$67.00
- 158) Andy left a 15% tip for a meal that cost \$47. What was the total cost of the meal including the tip? 158) _____
 A) \$7.05 B) \$39.95 C) \$61.10 D) \$54.05
- 159) Jennifer's annual salary increased from \$22,000 to \$49,000 over the last five years. Find the percent increase in her salary during this time period. Round to the nearest tenth of a percent. 159) _____
 A) 1.2% B) 55.1% C) 12.3% D) 122.7%
- 160) On a biology test, a student got 25 questions correct but did not pass. On a second attempt, the student got 36 questions correct. What was the percent of increase? 160) _____
 A) 11% B) 56% C) 44% D) 30.6%
- 161) Sales of frozen pizza for a club fund-raiser increased from 500 one year to 590 the next year. What was the percent of increase? 161) _____
 A) 84.7% B) 82% C) 18% D) 15.3%
- 162) By switching service providers, a family's telephone bill decreased from about \$50 a month to about \$46. What was the percent of decrease? 162) _____
 A) 4% B) 8% C) 9% D) 8.7%
- 163) Jennifer's annual salary was \$23,000 last year and increased 37% this year. Find Jennifer's current annual salary. 163) _____
 A) \$28,490 B) \$8510 C) \$40,020 D) \$31,510
- 164) The price of a printer was reduced from \$400 to \$160. What was the percent of decrease? 164) _____
 A) 65% B) 150% C) 60% D) 40%
- 165) The normal gasoline mileage of a car is 49 mpg. On a smooth road, its mileage is 12% higher. What is its mileage on a smooth road? Round your answer to the nearest tenth. 165) _____
 A) 5.9 mpg B) 54.9 mpg C) 49 mpg D) 50 mpg

177) Find the measures of the supplementary angles.

177) _____



- A) 50.63° and 39.38°
C) 96.25° and 83.75°

- B) 101.25° and 78.75°
D) 202.5° and 157.5°

178) Find the length of a rectangular lot with a perimeter of 126 meters if the length is 7 meters more than the width. ($P = 2L + 2W$)

178) _____

- A) 28 m B) 63 m C) 70 m D) 35 m

179) A square plywood platform has a perimeter which is 10 times the length of a side, decreased by 24. Find the length of a side.

179) _____

- A) 1 B) 6 C) 10 D) 4

180) A rectangular Persian carpet has a perimeter of 232 inches. The length of the carpet is 20 inches more than the width. What are the dimensions of the carpet?

180) _____

- A) 68 in., 88 in. B) 48 in., 68 in. C) 106 in., 126 in. D) 96 in., 116 in.

181) A pie-shaped (triangular) lake-front lot has a perimeter of 2200 feet. One side is 200 feet longer than the shortest side, while the third side is 500 feet longer than the shortest side. Find the lengths of all three sides.

181) _____

- A) 600 ft, 600 ft, 600 ft B) 500 ft, 700 ft, 1000 ft
C) 600 ft, 800 ft, 1100 ft D) 100 ft, 200 ft, 300 ft

182) If Gloria received a 11 percent raise and is now making \$22,200 a year, what was her salary before the raise? Round to the nearest dollar if necessary.

182) _____

- A) \$20,200 B) \$20,000 C) \$19,758 D) \$21,000

183) Stevie bought a stereo for \$255 and put it on sale at his store at a 70% markup rate. What was the retail price of the stereo? Round to the nearest cent if necessary.

183) _____

- A) \$510.00 B) \$333.50 C) \$433.50 D) \$355.00

184) On Monday, an investor bought 100 shares of stock. On Tuesday, the value of the shares went up 8%. How much did the investor pay for the 100 shares if he sold them Wednesday morning for \$1620? Round to the nearest dollar if necessary.

184) _____

- A) \$1570 B) \$1500 C) \$1490 D) \$1550

185) At the end of the day, a storekeeper had \$1155 in the cash register, counting both the sale of goods and the sales tax of 5%. Find the amount that is the tax. Round to the nearest dollar if necessary.

185) _____

- A) \$46 B) \$58 C) \$55 D) \$60

186) Brand X copier advertises that its copiers run 18% longer between service calls than its competitor. If Brand X copiers run 66,600 copies between service calls, how many copies would the competitor run (to the nearest copy)?

186) _____

- A) 36,593 copies B) 78,588 copies C) 56,441 copies D) 54,612 copies

- 187) A high school graduating class is made up of 376 students. There are 96 more girls than boys. How many boys are in the class? 187) _____
 A) 236 boys B) 376 boys C) 96 boys D) 140 boys
- 188) A baseball team played 154 complete games last season. They had 30 fewer wins than losses. How many games did the team win? 188) _____
 A) 62 games B) 30 games C) 92 games D) 154 games
- 189) On a road trip from Chicago to New Orleans, Joe stopped in Memphis which is 540 miles from Chicago. If Memphis is 0.6 of the trip to New Orleans, how far is it from Chicago to New Orleans? 189) _____
 A) 324 miles B) 600 miles C) 3240 miles D) 900 miles
- 190) Every basketball season Pam competes in a free throw contest. This year Pam was successful at 0.6 of her free throws. If she succeeded at 9 free throws, how many free throws did she attempt? 190) _____
 A) 900.6 free throws B) 15 free throws
 C) 54 free throws D) 5.4 free throws
- 191) CopyMart charges \$28 plus 44¢ per copy to produce promotional brochures. How many brochures can Steve purchase if he has a budget of \$89.16? (Hint: 44¢ = \$0.44) 191) _____
 A) 18 brochures B) 48 brochures C) 149 brochures D) 139 brochures
- 192) Recently, the cost of 18 6-oz jars of baby food was \$11.52. What was the cost of one jar? 192) _____
 A) \$0.64 B) \$1.92 C) \$0.32 D) \$1.28
- Solve.**
- 193) The height of the tallest building in Anne's home town is 651 feet, which is about 317 feet taller than the tallest building in Laurie's home town. What is the height of the tallest building in Laurie's home town? 193) _____
 A) 334 ft B) 968 ft C) 447 ft D) 317 ft
- 194) The area of Mark's backyard is about 7 times the area of Jon's backyard. The area of Mark's backyard is 5411 ft². What is the area of Jon's backyard? 194) _____
 A) 5404 ft² B) 773 ft² C) 5411 ft² D) 886 ft²
- 195) A city government budgeted \$27.7 million for public transportation. This was \$13.1 million more than was budgeted for parks and recreation. How much was budgeted for parks and recreation? 195) _____
 A) \$14.1 million B) \$14.6 million C) \$18.6 million D) \$15.6 million
- 196) Elaine was cooking dinner for some friends. She went out to do the shopping and spent \$156. She spent twice as much on food as on drinks. How much did she spend on each? 196) _____
 A) Drinks: \$39; food: \$78 B) Drinks: \$52; food: \$104
 C) Drinks: \$78; food: \$156 D) Drinks: \$39; food: \$117
- 197) A 243-foot rope is cut into three pieces. The second piece is twice as long as the first. The third piece is 3 times as long as the second. How long is each piece of rope? 197) _____
 A) First: 41 ft; second: 81 ft; third: 243 ft B) First: 27 ft; second: 54 ft; third: 162 ft
 C) First: 30 ft; second: 61 ft; third: 182 ft D) First: 30 ft; second: 61 ft; third: 152 ft

- 198) A car rental business rents a compact car at a daily rate of \$25.20 plus 20¢ per mile. Mike can afford to spend \$71 on the car rental for one day. How many miles can he drive and stay within his budget? (Hint: 20¢ = \$0.20) 198) _____
 A) 234 mi B) 229 mi C) 224 mi D) 219 mi
- 199) You are traveling to your aunt's house that is 240 miles away. If you are currently twice as far from home as you are from your aunt's, how far have you traveled? 199) _____
 A) 40.0 mi B) 160 mi C) 80 mi D) 120.0 mi
- 200) Jordan sold his used snow plow and accessories for \$539. If he received ten times as much money for the snow plow as he did for the accessories, how much did he receive for the snow plow? 200) _____
 A) \$490 B) \$5390 C) \$59 D) \$49
- 201) In West Arlington, taxis charge \$4.50 plus 75¢ per mile for an airport pickup. How far from the airport can Amy travel for \$27.00? (Hint: 75¢ = \$0.75) 201) _____
 A) 30 mi B) 20.25 mi C) 36 mi D) 72 mi
- 202) Bill needs an average of 70 on four tests in science to make the honor roll. What is the lowest score he can receive on the fourth test if his first three scores are 65, 60, and 92? 202) _____
 A) 72.3 B) 70 C) 71.8 D) 63

Determine whether the given number is a solution of the inequality.

- 203) $x > -12, -4.69$ 203) _____
 A) No B) Yes
- 204) $x > 8, 6.54$ 204) _____
 A) Yes B) No
- 205) $x < 11, 7.99$ 205) _____
 A) Yes B) No
- 206) $x > -2, -8.7$ 206) _____
 A) No B) Yes
- 207) $x \geq -11, 3$ 207) _____
 A) No B) Yes
- 208) $x \geq 15, 13$ 208) _____
 A) No B) Yes
- 209) $x \leq 3, -9$ 209) _____
 A) No B) Yes
- 210) $x \leq 12, 15$ 210) _____
 A) Yes B) No

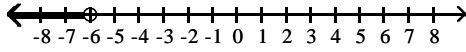
Graph the inequality.

211) $x > -6$

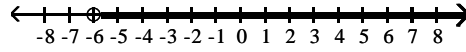
211) _____



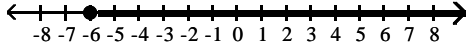
A)



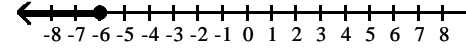
B)



C)



D)

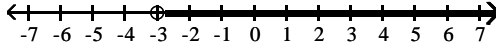


212) $x < -3$

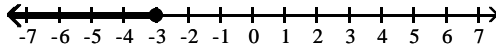
212) _____



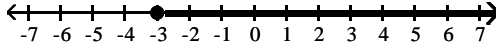
A)



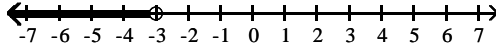
B)



C)



D)

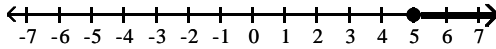


213) $x \geq 5$

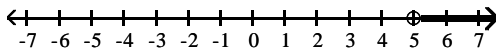
213) _____



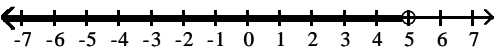
A)



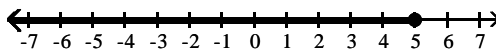
B)



C)

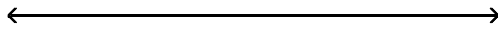


D)

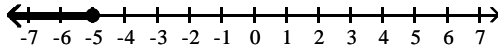


214) $x \leq -5$

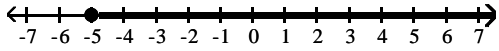
214) _____



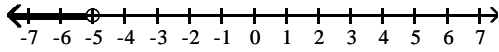
A)



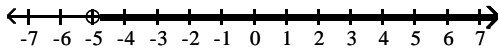
B)



C)

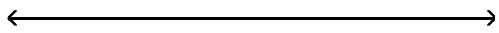


D)

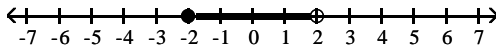


215) $-2 \leq x \leq 2$

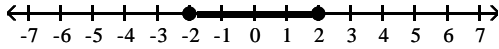
215) _____



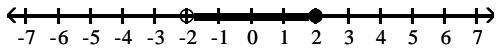
A)



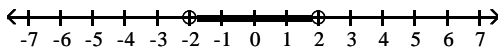
B)



C)

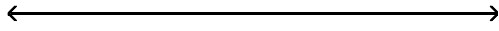


D)

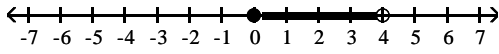


216) $0 < x < 4$

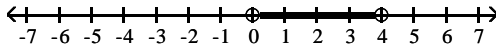
216) _____



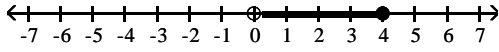
A)



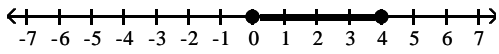
B)



C)



D)

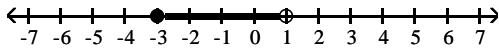


217) $-3 \leq x < 1$

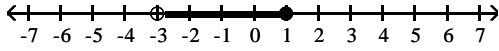
217) _____



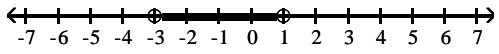
A)



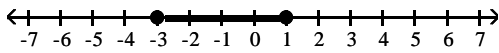
B)



C)



D)



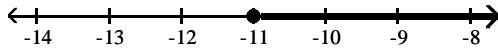
Solve using the addition principle. Graph and write set-builder notation for the answer.

218) $a - 1 < -12$

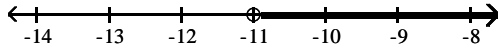
218) _____



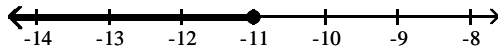
A) $\{a \mid a \geq -11\}$



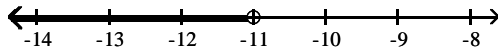
B) $\{a \mid a > -11\}$



C) $\{a \mid a \leq -11\}$



D) $\{a \mid a < -11\}$

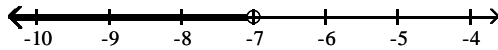


219) $-2n + 3 > -3n - 4$

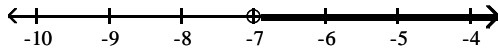
219) _____



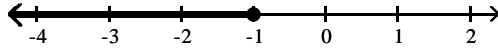
A) $\{n \mid n < -7\}$



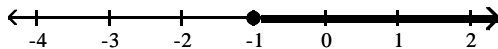
B) $\{n \mid n > -7\}$



C) $\{n \mid n \leq -1\}$

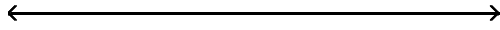


D) $\{n \mid n \geq -1\}$

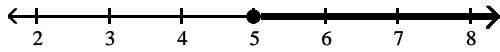


220) $9t - 2 \geq 8t + 3$

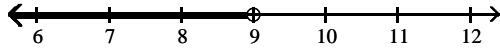
220) _____



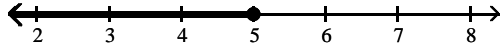
A) $\{t \mid t \geq 5\}$



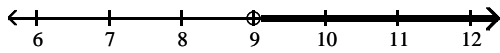
B) $\{t \mid t < 9\}$



C) $\{t \mid t \leq 5\}$

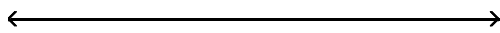


D) $\{t \mid t > 9\}$

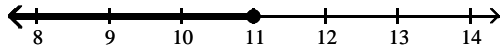


221) $f + 3 < 14$

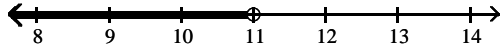
221) _____



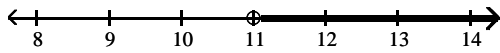
A) $\{f \mid f \leq 11\}$



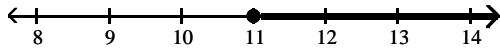
B) $\{f \mid f < 11\}$



C) $\{f \mid f > 11\}$

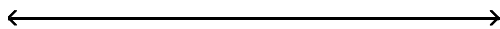


D) $\{f \mid f \geq 11\}$

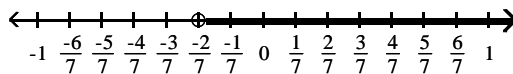


$$222) x - \frac{2}{21} > -\frac{8}{21}$$

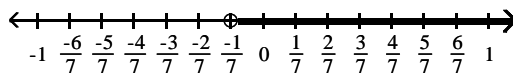
222) _____



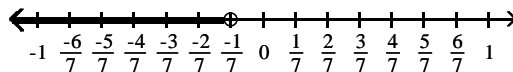
A) $\left\{x \mid x > -\frac{2}{7}\right\}$



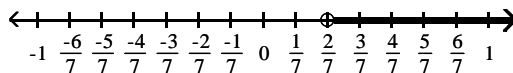
B) $\left\{x \mid x > -\frac{2}{7}\right\}$



C) $\left\{x \mid x < -\frac{1}{7}\right\}$



D) $\left\{x \mid x > \frac{2}{7}\right\}$

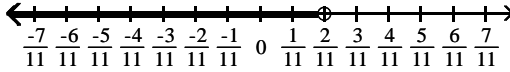


223) $x + \frac{1}{11} \geq \frac{4}{11}$

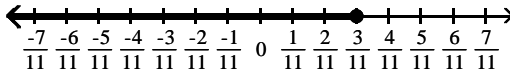
223) _____



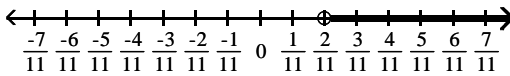
A) $\left\{x \mid x < \frac{2}{11}\right\}$



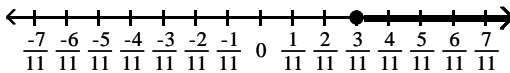
B) $\left\{x \mid x \leq \frac{3}{11}\right\}$



C) $\left\{x \mid x > \frac{2}{11}\right\}$



D) $\left\{x \mid x \geq \frac{3}{11}\right\}$



Solve using the multiplication principle.

224) $3n \geq 9$

224) _____

A) $\{n \mid n < 3\}$

B) $\{n \mid n \geq 3\}$

C) $\{n \mid n \leq 3\}$

D) $\{n \mid n > 3\}$

225) $-3x < -9$

225) _____

A) $\{x \mid x < -3\}$

B) $\{x \mid x > -3\}$

C) $\{x \mid x > 3\}$

D) $\{x \mid x < 3\}$

226) $4x \leq -16$

226) _____

A) $\{x \mid x \leq -4\}$

B) $\{x \mid x \geq 4\}$

C) $\{x \mid x \leq 4\}$

D) $\{x \mid x \geq -4\}$

227) $-4k < \frac{1}{3}$

227) _____

A) $\left\{k \mid k < \frac{1}{12}\right\}$

B) $\left\{k \mid k > -\frac{1}{12}\right\}$

C) $\left\{k \mid k < -\frac{1}{12}\right\}$

D) $\left\{k \mid k > \frac{1}{12}\right\}$

228) $-4x < -\frac{1}{5}$

228) _____

A) $\left\{x \mid x < -\frac{1}{20}\right\}$

B) $\left\{x \mid x > \frac{1}{20}\right\}$

C) $\left\{x \mid x > -\frac{1}{20}\right\}$

D) $\left\{x \mid x < \frac{1}{20}\right\}$

229) $-2x < \frac{3}{7}$ 229) _____

A) $\{x \mid x < \frac{3}{14}\}$ B) $\{x \mid x > -\frac{3}{14}\}$ C) $\{x \mid x < \frac{5}{7}\}$ D) $\{x \mid x > \frac{5}{7}\}$

230) $-\frac{4}{7} > -2x$ 230) _____

A) $\{x \mid x < 0\}$ B) $\{x \mid x > 0\}$ C) $\{x \mid x > \frac{2}{7}\}$ D) $\{x \mid x < -\frac{2}{7}\}$

Solve using the addition and multiplication principles.

231) $5 + 3x < -28$ 231) _____

A) $\{x \mid x > -11\}$ B) $\{x \mid x < \frac{23}{3}\}$ C) $\{x \mid x > \frac{23}{3}\}$ D) $\{x \mid x < -11\}$

232) $-7x + 2 > -8x - 1$ 232) _____

A) $\{x \mid x < -3\}$ B) $\{x \mid x > 1\}$ C) $\{x \mid x < 1\}$ D) $\{x \mid x > -3\}$

233) $13x - 3 \leq 12x + 5$ 233) _____

A) $\{x \mid x > 13\}$ B) $\{x \mid x \geq 8\}$ C) $\{x \mid x \leq 8\}$ D) $\{x \mid x < 13\}$

234) $-5x - 9 \geq -6x - 8$ 234) _____

A) $\{x \mid x < -5\}$ B) $\{x \mid x \leq 1\}$ C) $\{x \mid x > -5\}$ D) $\{x \mid x \geq 1\}$

235) $3y - 9 \geq 4y + 3$ 235) _____

A) $\{y \mid y \geq 12\}$ B) $\{y \mid y \leq 3\}$ C) $\{y \mid y > 3\}$ D) $\{y \mid y \leq -12\}$

236) $-2 - 6a - 6 \geq -7a - 20$ 236) _____

A) $\{a \mid a \leq -12\}$ B) $\{a \mid a > -6\}$ C) $\{a \mid a \geq -12\}$ D) $\{a \mid a < -6\}$

237) $0.6x + 11 + x > 2x + 10 - 0.5x$ 237) _____

A) $\{x \mid x \geq 1\}$ B) $\{x \mid x < -10\}$ C) $\{x \mid x > -10\}$ D) $\{x \mid x < 1\}$

238) $\frac{x}{2} + 15 \leq 9$ 238) _____

A) $\{x \mid x \geq -12\}$ B) $\{x \mid x \leq 8\}$ C) $\{x \mid x \leq -12\}$ D) $\{x \mid x < -10\}$

239) $15x + 25 > 5(2x + 6)$ 239) _____

A) $\{x \mid x > 1\}$ B) $\{x \mid x \leq 1\}$ C) $\{x \mid x < 1\}$ D) $\{x \mid x \geq 1\}$

240) $1 - \frac{3}{2}x + 3 > \frac{x}{2} + \frac{3}{2}$ 240) _____

A) $\{x \mid x > -\frac{7}{4}\}$ B) $\{x \mid x < \frac{5}{4}\}$ C) $\{x \mid x > \frac{5}{2}\}$ D) $\{x \mid x < \frac{11}{4}\}$

Translate the sentence to an inequality.

- 241) A number is greater than -1. 241) _____
A) $x \leq -1$ B) $x \geq -1$ C) $x < -1$ D) $x > -1$
- 242) A number is less than or equal to 7. 242) _____
A) $x > 7$ B) $x < 7$ C) $x \leq 7$ D) $x \geq 7$
- 243) John weighs at least 143 pounds. 243) _____
A) $x \leq 143$ B) $x \geq 143$ C) $x < 143$ D) $x > 143$
- 244) The score on a test was between 80 and 64. 244) _____
A) $64 < x < 80$ B) $x < 80$ C) $80 < x < 64$ D) $x > 64$
- 245) The cost is no more than \$393.90. 245) _____
A) $x < 393.90$ B) $x \leq 393.90$ C) $x > 393.90$ D) $x \geq 393.90$
- 246) The number of people at a concert is not to exceed 4931. 246) _____
A) $x > 4931$ B) $x \geq 4931$ C) $x < 4931$ D) $x \leq 4931$
- 247) The height of a member of the basketball team is at least 76 inches. 247) _____
A) $x \geq 76$ B) $x < 76$ C) $x > 76$ D) $x \leq 76$
- 248) Two times a number less twenty-seven must be more than thirty. 248) _____
A) $2x - 27 \geq 30$ B) $2(x - 27) \geq 30$ C) $2x - 27 > 30$ D) $2(x - 27) > 30$
- 249) Four added to half of a number is at most one. 249) _____
A) $\frac{1}{2}x + 4 \geq 1$ B) $\frac{1}{2}x + 4 > 1$ C) $\frac{1}{2}x + 4 \leq 1$ D) $\frac{1}{2}x + 4 < 1$

Solve the problem.

- 250) A salesperson has two job offers. Company A offers a weekly salary of \$720 plus commission of 16% of sales. Company B offers a weekly salary of \$1440 plus commission of 8% of sales. What is the amount of sales above which Company A's offer is the better of the two? 250) _____
A) \$9000 B) \$18,000 C) \$4500 D) \$9100
- 251) Company A rents copiers for a monthly charge of \$90 plus 6 cents per copy. Company B rents copiers for a monthly charge of \$180 plus 3 cents per copy. What is the number of copies above which Company A's charges are the higher of the two? 251) _____
A) 1500 copies B) 3000 copies C) 6000 copies D) 3100 copies
- 252) A car rental company has two rental rates. Rate 1 is \$63 per day plus \$.14 per mile. Rate 2 is \$126 per day plus \$.07 per mile. If you plan to rent for one week, how many miles would you need to drive to pay less by taking Rate 2? 252) _____
A) more than 88,200 miles B) more than 44,800 miles
C) more than 6300 miles D) more than 22,050 miles
- 253) Jim has gotten scores of 66 and 81 on his first two tests. What score must he get on his third test to keep an average of 75 or greater? 253) _____
A) At least 77 B) At least 78 C) At least 74.0 D) At least 73.5

- 254) A bag of marbles has twice as many blue marbles as green marbles, and the bag has at least 54 marbles in it. At least how many green marbles does it have? 254) _____
 A) At least 19 green marbles B) At least 27 green marbles
 C) At least 18 green marbles D) At least 36 green marbles
- 255) Jon has 813 points in his math class. He must have 72% of the 1400 points possible by the end of the term to receive credit for the class. What is the minimum number of additional points he must earn by the end of the term to receive credit for the class? 255) _____
 A) 195 points B) 1008 points C) 587 points D) 585 points
- 256) DG's Plumbing and Heating charges \$50 plus \$70 per hour for emergency service. Bill remembers being billed just over \$300 for an emergency call. How long to the nearest hour was the plumber at Bill's house? 256) _____
 A) 15 hours B) 4 hours C) 13 hours D) 5 hours
- 257) A 9-pound puppy is gaining weight at a rate of $\frac{2}{3}$ lb per week. How much more time will it take 257) _____
 for the puppy's weight to exceed $29\frac{2}{3}$ lb?
 A) more than 32 weeks B) more than $20\frac{3}{4}$ week(s)
 C) more than 58 weeks D) more than 31 weeks
- 258) In order for a chemical reaction to take place, the Fahrenheit temperature of the reagents must be at least 197.5°F. Find the Celsius temperatures at which the reaction may occur. ($F = \frac{9}{5}C + 32$) 258) _____
 A) $C \geq 91.94^\circ$ B) $C \leq 91.94^\circ$ C) $C < 387.5^\circ$ D) $C \geq 387.5^\circ$
- 259) In order for a chemical reaction to remain stable, its Celsius temperature must be no more than 137.94°C. Find the Fahrenheit temperatures at which the reaction will remain stable. ($F = \frac{9}{5}C + 32$) 259) _____
 A) $F \leq 280.29^\circ$ B) $F \geq 58.86^\circ$ C) $F \geq 280.29^\circ$ D) $F \leq 58.86^\circ$
- 260) The equation $y = 0.005x + 0.30$ can be used to determine the approximate profit, y in dollars, of producing x items. How many items must be produced so the profit will be at least \$1285? 260) _____
 A) $0 < x \leq 256,939$ B) $x \geq 257,060$ C) $x \leq 256,940$ D) $x \geq 256,940$
- 261) If the formula $R = -0.037t + 50.1$ can be used to predict the world record in the 400-meter dash t years after 1925, for what years will the world records be 48.8 seconds or less? 261) _____
 A) 1936 or after B) 1960 or after C) 1961 or after D) 1962 or after
- 262) If the formula $P = 0.5643Y - 1092.57$ can be used to predict the average price of a theater ticket after 1945, for what years will the average theater ticket price be at least 45 dollars? (Y is the actual year.) 262) _____
 A) 2016 or after B) 2018 or after C) 2026 or after D) 2014 or after

- 263) One side of a rectangle is 16 inches and the other side is x inches. What values of x will make the perimeter at least 58? 263) _____
 A) $x < 13$ B) $x \leq 13$ C) $x \geq 13$ D) $0 < x \leq 13$
- 264) One side of a rectangle is 9 inches and the other side is x inches. What values of x will make the perimeter at most 46? 264) _____
 A) $x \geq 14$ B) $x \leq 14$ C) $x < 14$ D) $0 < x \leq 14$
- 265) One side of a rectangle is 4 times the other, and the perimeter is not to exceed 130. Find the possible values for x , the length of the shorter side. 265) _____
 A) $x \leq 13$ B) $x \geq 52$ C) $0 < x \leq 13$ D) $0 < x \leq 52$
- 266) One side of a triangle is 4 cm shorter than the base, x . The other side is 3 cm longer than the base. What lengths of the base will allow the perimeter of the triangle to be at least 29 cm? 266) _____
 A) $x \geq 10$ B) $0 < x \leq 10$ C) $x \leq 13$ D) $x > 6$
- 267) One side of a rectangle is 9 inches and the other side is x inches. Find the value of x if the area must be at least 36 square inches. 267) _____
 A) $x = 4$ B) $0 < x \leq 4$ C) $x \geq 4$ D) $x \leq 4$
- 268) The area of a triangle must be at most 22 square inches, the base is 4 inches, and the height is x inches. Find the possible values for x . 268) _____
 A) $0 < x \leq 22$ B) $0 < x \leq 11$ C) $x < 11$ D) $0 < x \leq 5.5$
- 269) The color guard is making new triangular flags that must have a base of 18 inches to fit on their flagpoles. What is the maximum length of the triangular flags, if they want to use a maximum of 414 in.² of cloth? 269) _____
 A) 46 in. B) 92 in. C) 48 in. D) 23 in.
- 270) A shop keeper is making a triangular sign for his store front, but he must keep the sign under 20 ft² to adhere to zoning laws. If the base of the sign is 10 ft, what is the maximum height of the triangular sign? 270) _____
 A) 30 ft B) 1.000 ft C) 2.00 ft D) 4.0 ft

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Provide an appropriate response.

- 271) True or false: The solution of the equation $7y - 6 = 7y + 3$ is zero. 271) _____
- 272) The solution for the equation $3(4s - 2) = 12s - 6$ is given as 0. Is this correct? Explain. 272) _____
- 273) Write the steps you would use to solve this equation: $5(x - 1) + 5x = -2x$. 273) _____
- 274) What value of K makes this equation equivalent to $x = 3$? 274) _____
 $4x - 3 = K$
- 275) What value of K makes this equation equivalent to $x = 3$? 275) _____
 $\frac{9}{K + x} = 3$

- 276) What value of K makes this equation equivalent to $x = 2$?
 $3x + 15x - 8 = K + 6$ 276) _____
- 277) Find all values of s that make this statement true: $9(2s - 9) = 18s - 81$. 277) _____
- 278) Find all values of x that make this statement true: $(x + 8) + 3 = (x + 3) + 8$. 278) _____
- 279) Express three consecutive integers, all in terms of x, if x is the largest integer. 279) _____
- 280) One number is twice another. If the larger number is m, how do you express the other number in terms of m? 280) _____

Answer Key

Testname: UNTITLED2

- 1) A
- 2) A
- 3) A
- 4) A
- 5) B
- 6) B
- 7) B
- 8) B
- 9) D
- 10) D
- 11) B
- 12) D
- 13) C
- 14) D
- 15) A
- 16) B
- 17) A
- 18) D
- 19) C
- 20) B
- 21) B
- 22) D
- 23) A
- 24) D
- 25) D
- 26) C
- 27) D
- 28) D
- 29) B
- 30) A
- 31) D
- 32) A
- 33) D
- 34) A
- 35) B
- 36) D
- 37) A
- 38) B
- 39) C
- 40) C
- 41) D
- 42) A
- 43) D
- 44) D
- 45) C
- 46) A
- 47) C
- 48) C
- 49) D
- 50) D

Answer Key

Testname: UNTITLED2

- 51) B
- 52) C
- 53) A
- 54) D
- 55) B
- 56) C
- 57) D
- 58) D
- 59) C
- 60) D
- 61) D
- 62) A
- 63) D
- 64) C
- 65) C
- 66) A
- 67) C
- 68) B
- 69) C
- 70) D
- 71) D
- 72) B
- 73) A
- 74) D
- 75) B
- 76) C
- 77) D
- 78) D
- 79) D
- 80) A
- 81) D
- 82) A
- 83) B
- 84) C
- 85) B
- 86) C
- 87) D
- 88) B
- 89) C
- 90) B
- 91) B
- 92) B
- 93) B
- 94) D
- 95) B
- 96) B
- 97) C
- 98) D
- 99) D
- 100) A

Answer Key

Testname: UNTITLED2

- 101) A
- 102) A
- 103) D
- 104) B
- 105) A
- 106) C
- 107) C
- 108) A
- 109) C
- 110) C
- 111) B
- 112) B
- 113) D
- 114) A
- 115) D
- 116) B
- 117) A
- 118) D
- 119) C
- 120) A
- 121) C
- 122) C
- 123) C
- 124) D
- 125) D
- 126) B
- 127) B
- 128) A
- 129) A
- 130) B
- 131) D
- 132) B
- 133) D
- 134) C
- 135) C
- 136) A
- 137) B
- 138) D
- 139) A
- 140) A
- 141) C
- 142) D
- 143) C
- 144) A
- 145) C
- 146) C
- 147) C
- 148) A
- 149) B
- 150) D

Answer Key

Testname: UNTITLED2

- 151) D
- 152) C
- 153) C
- 154) A
- 155) B
- 156) C
- 157) D
- 158) D
- 159) D
- 160) C
- 161) C
- 162) B
- 163) D
- 164) C
- 165) B
- 166) D
- 167) C
- 168) A
- 169) C
- 170) A
- 171) C
- 172) B
- 173) C
- 174) D
- 175) B
- 176) B
- 177) B
- 178) D
- 179) D
- 180) B
- 181) B
- 182) B
- 183) C
- 184) B
- 185) C
- 186) C
- 187) D
- 188) A
- 189) D
- 190) B
- 191) D
- 192) A
- 193) A
- 194) B
- 195) B
- 196) B
- 197) B
- 198) B
- 199) B
- 200) A

Answer Key

Testname: UNTITLED2

- 201) A
- 202) D
- 203) B
- 204) B
- 205) A
- 206) A
- 207) B
- 208) A
- 209) B
- 210) B
- 211) B
- 212) D
- 213) A
- 214) A
- 215) B
- 216) B
- 217) A
- 218) D
- 219) B
- 220) A
- 221) B
- 222) A
- 223) D
- 224) B
- 225) C
- 226) A
- 227) B
- 228) B
- 229) B
- 230) C
- 231) D
- 232) D
- 233) C
- 234) D
- 235) D
- 236) C
- 237) C
- 238) C
- 239) A
- 240) B
- 241) D
- 242) C
- 243) B
- 244) A
- 245) B
- 246) D
- 247) A
- 248) C
- 249) C
- 250) A

Answer Key

Testname: UNTITLED2

- 251) B
- 252) C
- 253) B
- 254) C
- 255) A
- 256) B
- 257) D
- 258) A
- 259) A
- 260) D
- 261) C
- 262) A
- 263) C
- 264) D
- 265) C
- 266) A
- 267) C
- 268) B
- 269) A
- 270) D
- 271) False. It has no solution.
- 272) No. The solution is all real numbers. Explanations will vary.
- 273) Answers will vary.
- 274) 9
- 275) 0
- 276) 22
- 277) s can be any value, including 0.
- 278) x can be any value, including 0.
- 279) $x - 2$, $x - 1$, x
- 280) $\frac{m}{2}$ or $\frac{1}{2}m$