Test Bank for Elementary Algebra for College Students 10th Angel

Access Complete Test Bank for Elementary Algebra for College Students 10th Angel

Exam

Name_____

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

For the given expression, identify the terms and the numerical coefficients.

1) $-2z^6 + z^4 - z - 6 + 6z^4$ 1) _____

A) Constant terms: -6
Variable terms: $-2z^6, z^4, -z, 6z^4$
Coefficients: $-2, 1, -1, -6, 6$

B) Constant terms: $-2, -6, 6$
Variable terms: z^6, z^4, z
Coefficients: $-2, 1, -1, 6$

C) Constant terms: -6
Variable terms: $-2z^6, z^4, -z, 6z^4$
Coefficients: $-2, -6, 6$

D) Constant terms: $-2, -6, 6$
Variable terms: z^6, z^4, z
Coefficients: $-2, -6, 6$

2) $-\frac{6}{5}f + \frac{1}{10}g - \frac{3}{10}f - \frac{2}{5}g$ 2) _____

A) Constant terms: $-\frac{6}{5}, \frac{1}{10}, -\frac{3}{10}, -\frac{2}{5}$
Variable terms: f, g, f, g
Coefficients: $-\frac{6}{5}, \frac{1}{10}, -\frac{3}{10}, -\frac{2}{5}$

B) Constant terms: None
Variable terms: $-\frac{6}{5}f, \frac{1}{10}g, -\frac{3}{10}f, -\frac{2}{5}g$
Coefficients: $-\frac{6}{5}, \frac{1}{10}, -\frac{3}{10}, -\frac{2}{5}$

C) Constant terms: $-\frac{6}{5}, \frac{1}{10}, -\frac{3}{10}, -\frac{2}{5}$
Variable terms: $-\frac{6}{5}f, \frac{1}{10}g, -\frac{3}{10}f, -\frac{2}{5}g$
Coefficients: $-\frac{6}{5}, \frac{1}{10}, -\frac{3}{10}, -\frac{2}{5}$

D) Constant terms: $-\frac{6}{5}, \frac{1}{10}, -\frac{3}{10}, -\frac{2}{5}$
Variable terms: f, g
Coefficients: $-\frac{6}{5}, \frac{1}{10}, -\frac{3}{10}, -\frac{2}{5}$

3) $6f(g+8) + 7(g+8)$ 3) _____

A) Constant terms: 8, 7
Variable terms: 6fg, 7g
Coefficients: 6, 7

B) Constant terms: 7
Variable terms: 6f, (g+8)
Coefficients: 6, 7

C) Constant terms: None
Variable terms: 6f, 6(g+8), 7(g+8)
Coefficients: 6, 7

D) Constant terms: None
Variable terms: 6f(g+8), 7(g+8)
Coefficients: 6, 7

4) $a^2 - b^2 - 7ab - 4$ 4) _____

A) Constant terms: $-7, 4$
Variable terms: $a^2, -b^2, ab$
Coefficients: -7

B) Constant terms: $-7, -4$
Variable terms: a^2, b^2, ab
Coefficients: -7

C) Constant terms: -4
Variable terms: $a^2, b^2, -7a, b$
Coefficients: $1, -1, -7, -4$

D) Constant terms: -4
Variable terms: $a^2, -b^2, -7ab$
Coefficients: $1, -1, -7, -4$

Determine whether the terms are like or unlike.

5) $2z, -4z$ 5) _____

A) like

B) unlike

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6) $17a^6$, $17a^5$ 6) _____
A) like B) unlike

7) 11m, 14m, –15m 7) _____
A) like B) unlike

8) 11b, 14, 15a 8) _____
A) like B) unlike

9) $24xy^3z$, $-21xy^2$ 9) _____
A) like B) unlike

10) ab, 17ba 10) _____
A) like B) unlike

11) 11, 3, –13 11) _____
A) like B) unlike

Simplify.

12) 4a – 2a + 2 12) _____
A) 4a B) 2a + 2 C) 6a + 2 D) –2a + 2

13) –4b + 6b 13) _____
A) $2b^2$ B) –2b C) 2b D) –10b

14) –8y – 3y 14) _____
A) $-11y^2$ B) –11y C) –5y D) 11y

15) –4y + 6 – 4 + 2 + y – 4 15) _____
A) –5y B) –5y + 1 C) –3y – 1 D) –3y

16) $10x^8 - 15x^8$ 16) _____
A) $-5x^{16}$ B) $-5x^{64}$ C) $-5x^8$ D) $-6x^8$

17) 0.2x + 1.5x + 1.2x 17) _____
A) 15x B) 0.2x + 1.5x + 1.2x
C) 2.9x D) 3.1x

18) $-4y^5 - 14y^5$ 18) _____
A) $-18y^5$ B) $10y^5$ C) $-4y^5 - 14y^5$ D) $-18y^{10}$

19) 6z + 2 – 4z + 1 19) _____
A) 5z B) 2z + 3 C) 2z + 1 D) 10z + 3

20) 5.4k – 1.8 – 3.3k + 8 + 2.3k 20) _____
A) 4.4k + 6.2 B) 11k + 6.2 C) 4.4k – 6.2 D) 4.4k + 9.8

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21) $\frac{2}{5}x + \frac{3}{8} - \frac{3}{8}x$ 21) _____

A) $\frac{1}{40}x + \frac{3}{8}$ B) $\frac{31}{40}x - \frac{3}{8}$ C) $\frac{2}{5}x$ D) $-\frac{3}{20}x + \frac{3}{8}$

22) $-\frac{4}{7}x + \frac{5}{8} - \frac{5}{8}x - 4$ 22) _____

A) $-\frac{67}{56}x + \frac{37}{8}$ B) $\frac{3}{56}x - \frac{27}{8}$ C) $-\frac{67}{56}x - \frac{27}{8}$ D) $-\frac{3}{56}x - \frac{27}{8}$

23) $\frac{2}{7}x + \frac{1}{4} + \frac{1}{4}x + \frac{1}{6}$ 23) _____

A) $\frac{1}{4}x + \frac{1}{24}$ B) $\frac{15}{28}x + \frac{1}{24}$ C) $\frac{15}{28}x + \frac{5}{12}$ D) $\frac{1}{28}x + \frac{5}{12}$

24) $\frac{1}{2}x + \frac{3}{4} + \frac{3}{4}x + \frac{1}{6}$ 24) _____

A) $\frac{5}{4}x + \frac{11}{12}$ B) $\frac{1}{8}x + \frac{1}{8}$ C) $-\frac{1}{4}x + \frac{11}{12}$ D) $\frac{5}{4}x + \frac{1}{8}$

25) $-\frac{1}{3}x - \frac{3}{2}y + \frac{2}{3}x - \frac{1}{6}y - \frac{1}{3}x + \frac{5}{3}y$ 25) _____

A) $\frac{1}{2}x + \frac{3}{2}y$ B) 0 C) $\frac{1}{3}x + \frac{4}{3}y$ D) $\frac{1}{3}x + \frac{3}{2}y$

Use the distributive property to remove parentheses.

26) 8(k + r) 26) _____

A) 8kr B) 8k + r C) 8k – 8r D) 8k + 8r

27) 9(4n + 4) 27) _____

A) 36n + 4 B) 13n + 13 C) 72n D) 36n + 36

28) –9(6n + 8) 28) _____

A) –54n + 8 B) –3n – 1 C) –126n D) –54n – 72

29) $\frac{1}{5}(15x - 10)$ 29) _____

A) 3x – 2 B) x C) 3x – 10 D) 75x – 50

30) 7(5x + 2y + 2) 30) _____

A) 35x + 2y + 2 B) 35x + 14y + 2 C) 35x + 14y + 14 D) 35x + 2y + 14

31) $-\frac{5}{2}(4y + 8x + 8z)$ 31) _____

A) –10y – 20x + 20z B) –10y + 8x + 8z
C) –10y + 20x – 20z D) –10y – 20x – 20z

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32) 0.3(3x + 2.4) 32) _____

A) 0.9x + 2.4 B) 10x + 0.72 C) 3.3x + 2.7 D) 0.9x + 0.72

33) 1.2(2.8x – 4.5y + 3.3) 33) _____

A) 2.33x – 3.75y + 2.75 B) 4x – 3.3y + 4.5

C) 3.36x – 5.4y + 3.96 D) 3.36x – 4.5y + 3.3

34) – (4x + 5y) 34) _____

A) –4x + 5y B) 4x + 5y C) 4x – 5y D) –4x – 5y

35) (–8m + 8n – 4p) 35) _____

A) 8m – 8n – 4p B) –8m + 8n + 4p C) –8m + 8n – 4p D) 8m – 8n + 4p

Simplify.

36) –5(10r + 10) + 7(4r + 2) 36) _____

A) –22r – 36 B) 5r + 5 C) –100r D) –22r + 10

37) –3(8r + 4) + 6(7r + 4) 37) _____

A) 18r + 12 B) –36r C) 5r + 1 D) 18r + 4

38) –4 + 2(17 – 8m) 38) _____

A) 30 + 16m B) 34 – 16m C) 30 – 8m D) 30 – 16m

39) –6(2x – 9) – 4x + 6 39) _____

A) 16x + 60 B) –16x – 48 C) –16x + 60 D) 8x + 60

40) –2(7r + 4) + 3(8r + 6) 40) _____

A) 5r + 2 B) 10r + 4 C) 10r + 10 D) –22r

41) –5x – 4(x + 4y) 41) _____

A) –6x – 16y B) –9x + 16y C) –9x + 4y D) –9x – 16y

42) $-\left(\frac{6}{7}x - \frac{1}{5}\right) + 2x$ 42) _____

A) $\frac{47}{35}x$ B) $\frac{20}{7}x + \frac{1}{5}$ C) $\frac{8}{7}x + \frac{1}{5}$ D) $-\frac{4}{7}x - \frac{1}{5}$

43) 0.8 – 0.3(y + 2) + 0.3 – 4 43) _____

A) y + 4.5 B) –0.3y – 4.9 C) 0.3y – 2.3 D) –0.3y – 3.5

Identify the equation as linear or nonlinear.

44) 4x + 2y = –4 44) _____

A) linear B) nonlinear

45) $y = \frac{1}{3}x - 4$ 45) _____

A) linear B) nonlinear

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46) $y = x^2 + 1$ 46) _____

A) linear B) nonlinear

47) $y - x = -2$ 47) _____

A) nonlinear B) linear

Solve the problem.

48) Is $p = 14$ a solution of $p + 3 = 17$? 48) _____

A) Yes B) No

49) Is $x = 5$ a solution of $x - 1 = 4$? 49) _____

A) Yes B) No

50) Is $x = 2$ a solution of $8x + 9 = 27$? 50) _____

A) Yes B) No

51) Is $y = 5$ a solution of $2y + 4(y - 3) = 18$? 51) _____

A) Yes B) No

52) Is $x = 5$ a solution of $4x + 3x - 8 = 27$? 52) _____

A) Yes B) No

53) Is $k = -\frac{1}{5}$ a solution of $4k - 5 = 9k - 6$? 53) _____

A) Yes B) No

54) Is $z = \frac{5}{4}$ a solution of $-(z - 10) - (z - 1) = 2z - -6$? 54) _____

A) Yes B) No

Determine whether the given equations are equivalent equations.

55) $3x - 5 = 7$, $3x = 12$, $x = 4$ 55) _____

A) Equivalent equations B) Not equivalent equations

56) $2x + 3 = 7$, $2x = 10$, $x = 5$ 56) _____

A) Equivalent equations B) Not equivalent equations

Solve the equation and check your solution.

57) $x - 18 = -5$ 57) _____

A) $x = -23$ B) $x = 13$ C) $x = -13$ D) $x = 23$

58) $11 = x - 10$ 58) _____

A) $x = -1$ B) $x = -21$ C) $x = 1$ D) $x = 21$

59) $t - 2 = 13$ 59) _____

A) $t = 15$ B) $t = 11$ C) $t = -15$ D) $t = -11$

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60) $-6.8 + x = 15.7$ 60) _____

A) $x = 8.9$ B) $x = 22$ C) $x = 22.5$ D) $x = 8.4$

61) $-6.4 + x = 20$ 61) _____

A) $x = 13.1$ B) $x = 25.9$ C) $x = 26.4$ D) $x = 13.6$

62) $1.7 + x = 23.7$ 62) _____

A) $x = 25.4$ B) $x = 21.5$ C) $x = 24.9$ D) $x = 22$

63) $-3.6 = 18 - x$ 63) _____

A) $x = 21.1$ B) $x = 21.6$ C) $x = 14.4$ D) $x = 13.9$

64) $8.5 = 10.4 - x$ 64) _____

A) $x = 18.9$ B) $x = 18.4$ C) $x = 1.9$ D) $x = 1.4$

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

65) There are no exercises for this objective. 65) _____

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

Find the reciprocal.

66) 25 66) _____

A) 1 B) -25 C) $\frac{1}{25}$ D) $-\frac{1}{25}$

67) $\frac{1}{6}$ 67) _____

A) 1 B) $-\frac{1}{6}$ C) 6 D) -6

68) $\frac{4}{9}$ 68) _____

A) $-\frac{9}{4}$ B) 9 C) $-\frac{4}{9}$ D) $\frac{9}{4}$

69) $\frac{8}{3}$ 69) _____

A) 3 B) $-\frac{8}{3}$ C) $-\frac{3}{8}$ D) $\frac{3}{8}$

Solve the equation and check your solution.

70) $-\frac{1}{6}x = -6$ 70) _____

A) $x = 1$ B) $x = -13$ C) $x = -12$ D) $x = 36$

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71) $\frac{1}{4}a = 0$ 71) _____

A) $a = 4$ B) $a = 0$ C) $a = 1$ D) $a = -4$

72) $\frac{n}{3} = 7$ 72) _____

A) $n = 2$ B) $n = 9$ C) $n = 10$ D) $n = 21$

73) $4a = -36$ 73) _____

A) $a = -9$ B) $a = 1$ C) $a = -40$ D) $a = 40$

74) $-5x = -30$ 74) _____

A) $x = 2$ B) $x = -25$ C) $x = 25$ D) $x = 6$

75) $\frac{1}{3}x = \frac{1}{5}$ 75) _____

A) $x = \frac{9}{5}$ B) $x = -\frac{3}{5}$ C) $x = \frac{3}{5}$ D) $x = \frac{5}{3}$

76) $\frac{n}{2} = 15$ 76) _____

A) $n = 7$ B) $n = 17$ C) $n = 16$ D) $n = 30$

77) $-\frac{2}{13}k = \frac{4}{13}$ 77) _____

A) $k = 11$ B) $k = 10$ C) $k = -7$ D) $k = -2$

78) $\frac{x}{2} = 6$ 78) _____

A) $x = 12$ B) $x = 7$ C) $x = 8$ D) $x = 3$

79) $-7x = 42$ 79) _____

A) $x = 1$ B) $x = -6$ C) $x = -49$ D) $x = 49$

80) $-11.6 = -2.9x$ 80) _____

A) $x = 2$ B) $x = -8.7$ C) $x = 8.7$ D) $x = 4$

81) $-4x = -36$ 81) _____

A) $x = 32$ B) $x = 9$ C) $x = 2$ D) $x = -32$

82) $-\frac{4}{9}x = \frac{6}{7}$ 82) _____

A) $x = \frac{27}{14}$ B) $x = -\frac{14}{27}$ C) $x = -\frac{54}{7}$ D) $x = -\frac{27}{14}$

83) $-18.4 = -2.3x$ 83) _____

A) $x = 2$ B) $x = 8$ C) $x = -16.1$ D) $x = 16.1$

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84) $-10.26 = 1.71v$ 84) _____

A) $v = 6$ B) $v = -17.54$ C) $v = -\frac{1}{6}$ D) $v = -6$

85) $-z = -9$ 85) _____

A) $z = -1$ B) $z = -9$ C) $z = 0$ D) $z = 9$

86) $-x = -\frac{9}{7}$ 86) _____

A) $x = \frac{9}{7}$ B) $x = -\frac{7}{9}$ C) $x = \frac{7}{9}$ D) $x = -\frac{9}{7}$

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

87) There are no exercises for this objective. 87) _____

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

Solve the equation.

88) $9x - (4x - 1) = 2$ 88) _____

A) $x = -\frac{1}{5}$ B) $x = \frac{1}{5}$ C) $x = \frac{1}{13}$ D) $x = -\frac{1}{13}$

89) $10r + 4 = 24$ 89) _____

A) $r = 2$ B) $r = 1$ C) $r = 10$ D) $r = 14$

90) $3n - 6 = 18$ 90) _____

A) $n = 8$ B) $n = 25$ C) $n = 12$ D) $n = 21$

91) $59 = -10x + 9$ 91) _____

A) $x = 14$ B) $x = 60$ C) $x = -5$ D) $x = 64$

92) $5(k - 3) - (4k - 3) = 9$ 92) _____

A) $k = -21$ B) $k = -3$ C) $k = -9$ D) $k = 21$

93) $9x - (8x - 1) = 2$ 93) _____

A) $\frac{1}{17}$ B) -1 C) 1 D) $-\frac{1}{17}$

94) $5(2x - 1) = 20$ 94) _____

A) $\frac{19}{10}$ B) $\frac{5}{2}$ C) $\frac{3}{2}$ D) $\frac{21}{10}$

95) $x - 3(2x + 10) = -5$ 95) _____

A) $x = -1$ B) $x = 7$ C) $x = -5$ D) $x = \frac{35}{9}$

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96) $3x - 4x + 3x = -70$ 96) _____

A) $x = -35$ B) $x = -72$ C) $x = 17.5$ D) $x = 0$

97) $\frac{a}{3} - \frac{1}{3} = -2$ 97) _____

A) $a = -7$ B) $a = -5$ C) $a = 5$ D) $a = 7$

98) $0.70x - 0.20(30 + x) = 0.30(30)$ 98) _____

A) $x = 40$ B) $x = 15$ C) $x = 20$ D) $x = 30$

99) $\frac{f}{5} - 4 = 1$ 99) _____

A) $f = -15$ B) $f = 15$ C) $f = -25$ D) $f = 25$

100) $\frac{2x}{5} - \frac{x}{3} = 4$ 100) _____

A) $x = 120$ B) $x = -60$ C) $x = 60$ D) $x = -120$

101) $\frac{b}{12} - 8 = -5$ 101) _____

A) $b = 36$ B) $b = -38$ C) $b = 38$ D) $b = -36$

102) $13.8 = -16.5 - n$ 102) _____

A) $n = -2.7$ B) $n = -30.3$ C) $n = 30.3$ D) $n = 2.7$

103) $5.34 - 4.8x - 1.3x = 24.86$ 103) _____

A) $x = -3.2$ B) $x = -4.95$ C) $x = 4.2$ D) $x = 7.1$

104) $\frac{2}{3} = \frac{1}{3}(t - 1)$ 104) _____

A) $t = \frac{5}{3}$ B) $t = 1$ C) $t = 3$ D) $t = \frac{25}{12}$

105) $3(y + 7) = 4(y - 8)$ 105) _____

A) $y = 11$ B) $y = 53$ C) $y = -53$ D) $y = -11$

106) $6x + 7(2x - 4) = 1 - 9x$ 106) _____

A) $x = -\frac{27}{11}$ B) $x = -1$ C) $x = -\frac{27}{29}$ D) $x = 1$

107) $(y - 3) - (y + 4) = 6y$ 107) _____

A) $y = -\frac{1}{3}$ B) $y = -7$ C) $y = -\frac{7}{6}$ D) $y = -\frac{7}{3}$

108) $8p = 7(4p + 7)$ 108) _____

A) $p = -\frac{49}{20}$ B) $p = \frac{49}{8}$ C) $p = \frac{49}{20}$ D) $p = \frac{20}{49}$

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109) $15(7c - 5) = 8c - 3$ 109) _____

A) $c = \frac{78}{97}$ B) $c = \frac{72}{113}$ C) $c = \frac{72}{97}$ D) $c = -\frac{72}{97}$

110) $5(y + 8) = 6(y - 3)$ 110) _____

A) $y = 22$ B) $y = -22$ C) $y = -58$ D) $y = 58$

111) $5(2z - 3) = 9(z + 3)$ 111) _____

A) $z = 17$ B) $z = -12$ C) $z = 42$ D) $z = 12$

112) $3p = 5(3p + 5)$ 112) _____

A) $p = \frac{12}{25}$ B) $p = \frac{25}{3}$ C) $p = -\frac{25}{12}$ D) $p = \frac{25}{12}$

113) $2(2z - 4) = 3(z + 4)$ 113) _____

A) $z = 6$ B) $z = -4$ C) $z = 20$ D) $z = 4$

114) $-7x + 4(3x - 5) = -9 - 6x$ 114) _____

A) $x = -1$ B) $x = 1$ C) $x = -\frac{29}{11}$ D) $x = 29$

115) $\frac{r + 6}{5} = \frac{r + 8}{7}$ 115) _____

A) $r = -1$ B) $r = 2$ C) $r = 1$ D) $r = -2$

116) $\frac{3(y - 2)}{5} = 1 - 3y$ 116) _____

A) $y = \frac{11}{18}$ B) $y = \frac{11}{6}$ C) $y = \frac{7}{6}$ D) $y = -\frac{11}{18}$

117) $-0.08y + 0.13(500 - y) = 0.29y$ 117) _____

A) $y = 130$ B) $y = 325$ C) $y = 32.5$ D) $y = 260$

118) $0.03(40) + 0.70x = 0.40(40 + x)$ 118) _____

A) $x = 25$ B) $x = 50$ C) $x = 40$ D) $x = 60$

119) $\frac{2x}{5} = \frac{x}{3} + 3$ 119) _____

A) $x = 90$ B) $x = -45$ C) $x = 45$ D) $x = -90$

120) $\frac{r}{3} + \frac{6}{3} = \frac{r}{6} + \frac{8}{6}$ 120) _____

A) $r = 4$ B) $r = 3$ C) $r = -4$ D) $r = -12$

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121) $\frac{7}{3} - \frac{x}{3} = \frac{x}{4}$ 121) _____

A) $x = -4$ B) $x = 4$ C) $x = \frac{28}{5}$ D) $x = 7$

122) $\frac{y}{5} - \frac{2}{5} = \frac{1}{3} - y$ 122) _____

A) $y = -\frac{11}{18}$ B) $y = \frac{11}{18}$ C) $y = \frac{7}{6}$ D) $y = \frac{11}{6}$

123) $1.8m + 0.2 + 3.3m = 8.6 + 5.1m - 8.4$ 123) _____

A) $m = 4.7$ B) $m = 0$
C) no solution D) all real numbers

124) $8x - 6 + 4x - 9 = 3x + 9x - 18$ 124) _____

A) $x = 128$ B) all real numbers
C) no solution D) $x = 0$

125) $7(x + 5) = (7x + 35)$ 125) _____

A) all real numbers B) $x = 70$
C) $x = 0$ D) no solution

126) $5(x + 2) - (5x + 10) = 0$ 126) _____

A) all real numbers B) $x = 0$
C) no solution D) $x = 2$

127) $\frac{1}{5}(10x - 15) = 6\left(\frac{1}{3}x - \frac{1}{2}\right) + 10$ 127) _____

A) no solution B) $x = \frac{5}{2}$

C) $x = 0$ D) all real numbers

128) $\frac{x}{5} - 10 = \frac{x}{5}$ 128) _____

A) all real numbers B) $x = 25$
C) no solution D) $x = 0$

Use the simple interest formula.

129) Kevin invested part of his $10,000 bonus in a certificate of deposit that paid 6% annual simple interest, and the remainder in a mutual fund that paid 11% annual simple interest. If his total interest for that year was $800, how much did Kevin invest in the mutual fund? 129) _____

A) $3000 B) $5000 C) $4000 D) $6000

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130) How can $42,000 be invested, part at 4% annual simple interest and the remainder at 10% annual simple interest, so that the interest earned by the two accounts is equal at the end of the year? 130) _____

A) $12,000 invested at 4%; $30,000 invested at 10%
B) $22,000 invested at 4%; $20,000 invested at 10%
C) $30,000 invested at 4%; $12,000 invested at 10%
D) $20,000 invested at 4%; $22,000 invested at 10%

131) Melissa invested a sum of money at 3% annual simple interest. She invested three times that sum at 5% annual simple interest. If her total yearly interest from both investments was $7200, how much was invested at 3%? 131) _____

A) $90,000 B) $40,000 C) $30,000 D) $270,000

132) If $38,000 is invested at 10% simple annual interest, how much should be invested at 12% annual simple interest so that the total yearly income from both investments is $5000? 132) _____

A) $10,000 B) $4400 C) $440 D) $1000

133) Alice invested some money at 16% simple interest. At the end of the year the total amount of her original principal and the interest was $14,848. How much did she originally invest? 133) _____

A) $928 B) $12,800 C) $237,568 D) $2048

134) Find the interest on $2900 borrowed at an interest rate of 4% for one year. 134) _____

A) $725 B) $116 C) $3016 D) $1160

Use the distance formula.

135) A contestant in a 26–mile race finished in 5 hours. What was her average rate during the race? (Round to the nearest tenth, if necessary.) 135) _____

A) 0.2 mph B) 5.2 mph C) 130 mph D) 21 mph

136) How long would it take to drive 560 kilometers if your average rate of speed was 80 kilometers per hour? 136) _____

A) 448 hr B) 64 hr C) 8 hr D) 7 hr

137) Ashley drove home from school for Thanksgiving. She traveled 270 miles in 5 hours. What was her average speed? 137) _____

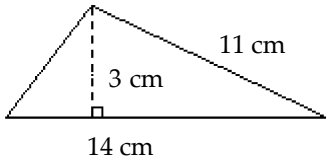
A) 59 mph B) 54 mph C) 265 mph D) 51 mph

138) Chris rode his bike at an average speed of 15.7 miles per hour for 4 hours. How far did he bike? 138) _____

A) 3.9 mph B) 62.8 mi C) 15.7 mi D) 78.5 mi

Determine the area or volume as indicated. Use 3.14 for π when necessary.

139) 139) _____



Find the area.

A) 77 cm^2 B) 21 cm^2 C) 16.5 cm^2 D) 42 cm^2

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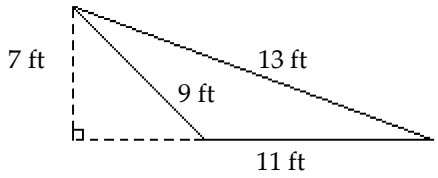
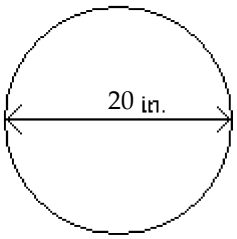
140) 140) _____



Find the area.

A) 31.5 ft^2 B) 77 ft^2 C) 45.5 ft^2 D) 38.5 ft^2

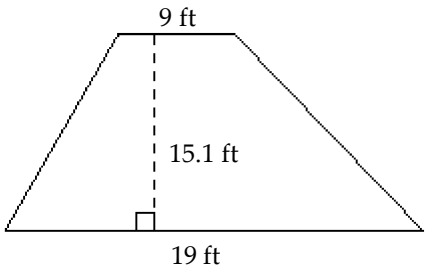
141) 141) _____



Find the area.

A) 125.60 $in.^2$ B) 1256.00 $in.^2$ C) 314.00 $in.^2$ D) 62.80 $in.^2$

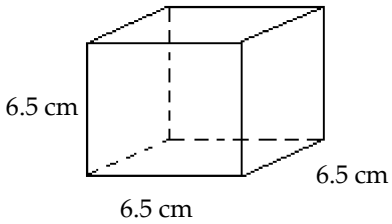
142) 142) _____



Find the area.

A) 135.9 ft^2 B) 422.8 ft^2 C) 286.9 ft^2 D) 211.4 ft^2

143) 143) _____



Find the volume.

A) 274.625 cm^3 B) 19.5 cm^3 C) 84.5 cm^3 D) 42.25 cm^3

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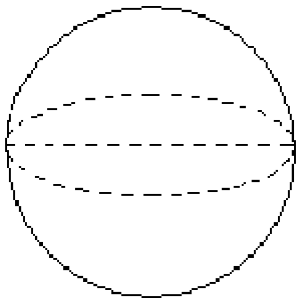
144) 144) _____

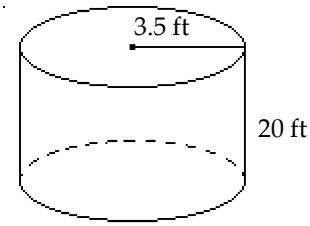


diameter = 3.4 m

Find the volume. Round to the nearest hundredth.

A) 36.30 m^3 B) 123.41 m^3 C) 20.57 m^3 D) 6.05 m^3

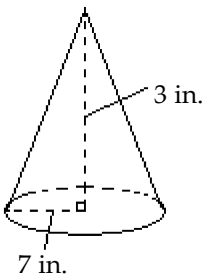
145) 145) _____



Find the volume.

A) 439.6 ft^3 B) 219.8 ft^3 C) 3077.2 ft^3 D) 769.3 ft^3

146) 146) _____



Find the volume. Round to the nearest whole unit.

A) 308 $in.^3$ B) 44 $in.^3$ C) 231 $in.^3$ D) 154 $in.^3$

Use geometry formulas to solve.

147) A circular fountain has a radius of 19 ft. Determine the circumference of the fountain. 147) _____

A) 29.83 ft B) 1133.54 ft C) 119.32 ft D) 59.66 ft

148) Michael is shipping his mother's birthday gift to her in a rectangular box. If the gift's dimensions are 3 inches long by 6 inches wide by 10 inches high, find the volume of the smallest box that will hold the gift. 148) _____

A) 180 $in.^3$ B) 18 $in.^3$ C) 360 $in.^3$ D) 19 $in.^3$

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Use the formula to find the value of the variable indicated. Use a calculator to save time and where necessary, round your answer to the nearest hundredth.

149) $A = \frac{1}{2}bh$; find b when A = 16 and h = 6. 149) _____

A) b = 0.19 B) b = 48 C) b = 1.33 D) b = 5.33

150) $V = \frac{1}{3}Bh$; find h when V = 48 and B = 12. 150) _____

A) h = 12 B) h = 0.75 C) h = 0.08 D) h = 0.33

151) d = rt; find r when d = 560 and t = 8. 151) _____

A) r = 552 B) r = 70 C) r = 4480 D) r = 0.01

152) P = 2l + 2w; find l when P = 24 and w = 4. 152) _____

A) l = 16 B) l = 20 C) l = 10 D) l = 8

153) $P = \frac{A}{1 + rt}$; find r when P = 1650, A = 2145, and t = 4. 153) _____

A) r = 0.19 B) r = 6930 C) r = 0.08 D) r = 99

Solve for the indicated variable.

154) $A = \frac{1}{2}bh$, for b 154) _____

A) $b = \frac{2A}{h}$ B) $b = \frac{A}{2h}$ C) $b = \frac{Ah}{2}$ D) $b = \frac{h}{2A}$

155) $S = 2\pi rh + 2\pi r^2$, for h 155) _____

A) $h = \frac{S - 2\pi r^2}{2\pi r}$ B) h = S – r C) $h = 2\pi(S - r)$ D) $h = \frac{S}{2\pi r} - 1$

156) $V = \frac{1}{3}Bh$, for h 156) _____

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

157) $F = \frac{9}{5}C + 32$, for C 157) _____

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

158) $A = \frac{1}{2}h(a + b)$, for a 158) _____

A) $a = \frac{2bA - h}{h}$ B) $a = \frac{hb - 2A}{h}$ C) $a = \frac{A - hb}{2h}$ D) $a = \frac{2A - hb}{h}$

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159) $d = rt$, for t 159) _____

A) $t = \frac{d}{r}$ B) $t = dr$ C) $t = d - r$ D) $t = \frac{r}{d}$

160) $P = 2l + 2w$, for l 160) _____

A) $l = \frac{P - w}{2}$ B) $l = \frac{P - 2w}{2}$ C) $l = P - 2w$ D) $l = P - w$

161) $A = P(1 + nr)$, for r 161) _____

A) $r = \frac{A}{n}$ B) $r = \frac{A - P}{Pn}$ C) $r = \frac{P - A}{Pn}$ D) $r = \frac{Pn}{A - P}$

162) $I = Prt$, for r 162) _____

A) $r = \frac{P - 1}{It}$ B) $r = \frac{I}{Pt}$ C) $r = P - tI$ D) $r = \frac{P - I}{1 + t}$

163) $\frac{1}{a} + \frac{1}{b} = \frac{1}{c}$, for c 163) _____

A) $c = a + b$ B) $c = \frac{a + b}{ab}$ C) $c = \frac{ab}{a + b}$ D) $c = ab(a + b)$

164) $P = \frac{A}{1 + rt}$, for r 164) _____

A) $r = \frac{P - A}{1 + t}$ B) $r = \frac{P - 1}{At}$ C) $r = \frac{A - P}{Pt}$ D) $r = P - tA$

165) $A = \frac{1}{2}h(B + b)$, for b 165) _____

A) $b = \frac{2A - Bh}{h}$ B) $b = 2A - Bh$ C) $b = \frac{2A + Bh}{h}$ D) $b = \frac{A - Bh}{h}$

Solve the equation for y.

166) $3x + y = 15$ 166) _____

A) $y = \frac{15 - x}{3}$ B) $y = 5 - x$ C) $y = 15 - 3x$ D) $y = 3x + 15$

167) $14x + 9y = 11$ 167) _____

A) $y = \frac{14}{9}x - \frac{11}{9}$ B) $y = 14x - 11$ C) $y = -\frac{14}{9}x + \frac{11}{9}$ D) $y = \frac{14}{9}x + \frac{11}{9}$

168) $x = 9y + 8$ 168) _____

A) $y = \frac{1}{9}x - \frac{8}{9}$ B) $y = 9x - 8$ C) $y = x - \frac{8}{9}$ D) $y = \frac{1}{9}x - 8$

169) $-2x + 6y = 0$ 169) _____

A) $y = 3x + 2$ B) $y = 3x$ C) $y = -3x$ D) $y = \frac{x}{3}$

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Solve the problem.

170) Use the formula $d = \frac{1}{2}n^2 - \frac{3}{2}n$ to find the number of diagonals in a figure with the given number of sides.
9 sides
A) 54 B) 27 C) 34 D) 7 170) _____

171) Use the formula $C = \frac{5}{9}(F - 32)$ to find the Celsius temperature (C) equivalent to the given Fahrenheit temperature (F).
F = 230°
A) C = 356.4° B) C = 110° C) C = 145.6° D) C = 446° 171) _____

172) Use the formula $F = \frac{9}{5}C + 32$, to find the Fahrenheit temperature (F) equivalent to the given Celsius temperature (C).
C = 340°
A) F = 644° B) F = 172.6° C) F = 580° D) F = 208.2° 172) _____

173) In chemistry, the ideal gas law is $P = \frac{KT}{V}$ where P is pressure, T is temperature, V is volume, and K is constant. Find the missing quantity.
V = 6, P = 80, K = 4
A) T = 1920 B) T = 120 C) T = 3.33 D) T = 53.33 173) _____

Is the proportion set up correctly?

174) $\frac{oz}{hr} = \frac{oz}{hr}$
A) Yes B) No 174) _____

175) $\frac{in}{hr} = \frac{in}{hr}$
A) Yes B) No 175) _____

176) $\frac{ft}{sec} = \frac{sec}{ft}$
A) Yes B) No 176) _____

The results of a mathematics examination are given. Write the ratio in lowest terms.

177) Results: 6 A's, 5 B's, 9 C's, 3 D's, 2 F's
A's to B's
A) 1 : 1 B) 6 : 1 C) 6 : 5 D) 5 : 6 177) _____

178) Results: 6 A's, 6 B's, 17 C 's, 7 D's, 3 F's
A's to total grades
A) 2 : 11 B) 13 : 3 C) 2 : 39 D) 2 : 13 178) _____

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179) Results: 6 A's, 6 B's, 10 C 's,G 2 D's, 2 F's
Grades better than C to total grades
A) 7 : 1 B) 6 : 13 C) 11 : 13 D) 5 : 13 179) _____

Determine the following ratio. Write the ratio as a fraction in lowest terms.

180) 8 inches to 12 inches
A) 3:2 B) – 3:2 C) – 2:3 D) 2:3 180) _____

181) 9 inches to 11 feet
A) 9:11 B) 44:3 C) 3:44 D) 11:9 181) _____

182) 92 minutes to 9 hours
A) 9:92 B) 23:135 C) 135:23 D) 92:9 182) _____

183) 3 quarters to 11 dollars
A) 3:11 B) 3:44 C) 44:3 D) 11:3 183) _____

184) 7 nickels to 9 dollars
A) 7:9 B) 7:180 C) 9:7 D) 180:7 184) _____

185) 4 miles to 20 feet
A) 1056:1 B) 20:4 C) 1:1056 D) 4:20 185) _____

Solve the proportion for the variable by cross–multiplying.

186) $\frac{x}{57} = \frac{4}{19}$
A) $x = \frac{4}{3}$ B) $x = 16$ C) $x = 12$ D) $x = \frac{1083}{4}$ 186) _____

187) $\frac{7}{x} = \frac{0.7}{6.3}$
A) $x = 63$ B) $x = \frac{441}{100}$ C) $x = \frac{441}{10}$ D) $x = \frac{49}{10}$ 187) _____

188) $\frac{3.9}{n} = \frac{1.2}{5.2}$
A) $n = 0.1$ B) $n = 169.0$ C) $n = 16.9$ D) $n = 0.6$ 188) _____

189) $\frac{x}{8.3} = \frac{0.07}{9}$
A) $x = 0.06$ B) $x = 15.49$ C) $x = 1067.14$ D) $x = 5.23$ 189) _____

Write a proportion that can be used to solve the problem. Then solve the equation to obtain the answer.

190) The ratio of a quarterback's completed passes to attempted passes is 5 : 7. If he attempted 21 passes, find how many passes he completed. Round to the nearest whole number.
A) 29 passes B) 7 passes C) 15 passes D) 3 passes 190) _____

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191) The ratio of a basketball player's completed free throws to attempted free throws is 4 : 7. If she completed 20 free throws, find how many free throws she attempted. Round to the nearest whole number. 191) _____

A) 35 free throws B) 5 free throws C) 11 free throws D) 4 free throws

192) It takes Kim 22 minutes to type and spell check 10 pages of a manuscript. Find how long it takes her to type and spell check 55 pages. Round to the nearest whole number. 192) _____

A) 22 minutes B) 121 minutes C) 25 minutes D) 1210 minutes

193) It takes Bill 40 minutes to type and spell check 14 pages. Find how many pages he can type and spell check in 5.5 hours. Round to the nearest tenth. 193) _____

A) 942.9 pages B) 77 pages C) 192.5 pages D) 115.5 pages

194) On an architect's blueprint, 1 inch corresponds to 4 feet. Find the length of a wall represented by a line $4\frac{1}{2}$ inches long on the blueprint. Round to the nearest tenth. 194) _____

A) 12.5 feet B) 8.9 feet C) 18 feet D) 112.5 feet

195) It is recommended that there be at least 11.5 square feet of floor space in a classroom for every student in the class. Find the minimum floor space that 48 students require. Round to the nearest tenth. 195) _____

A) 24.0 square feet B) 552 square feet
C) 11.5 square feet D) 417.4 square feet

196) It is recommended that there be at least 10.85 square feet of ground space in a garden for every newly planted shrub. A garden is 18.6 feet by 21 feet. Find the maximum number of shrubs the garden can accommodate. 196) _____

A) 111 shrubs B) 36 shrubs C) 3 shrubs D) 12 shrubs

197) It is recommended that there be at least 17 square feet of work space for every person in a conference room. A certain conference room is 16 feet by 12 feet. Find the maximum number of people the room can accommodate. 197) _____

A) 31 people B) 11 people C) 12 people D) 21 people

198) A bag of fertilizer covers 1500 square feet of lawn. Find how many bags of fertilizer should be purchased to cover a rectangular lawn 430 feet by 70 feet. 198) _____

A) 21 bags B) 20 bags C) 2006 bags D) 201 bags

Determine the ratio and write the ratio as some quantity to 1.

199) According to a study, each week the average elementary child spends 17 hours watching television, 2 hours reading books, and 5 hours playing outside. What is the ratio of number of hours of television watched to the number of hours reading? 199) _____

A) 17:2; 8.5:1 B) 17:15; 1.13:1 C) 17:5; 3.4:1 D) 2:17; 0.12:1

200) After a recent poll of registered voters in Grant County it is determined that 48% plan on voting for the the Republican candidate for governor, 32% plan on voting for the Democrat candidate, and 20% were undecided. What is the ratio of Republican voters to Democrat voters? 200) _____

A) 16:1 B) 48:20; 2.4:1 C) 3:2; 1.5:1 D) 2:3; 0.67:1

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Use a proportion to make the conversion. Round answers to two decimal places.

201) Convert 37,064 feet to miles. 201) _____

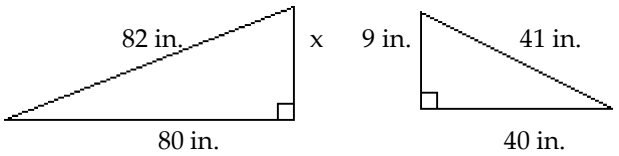
A) 14.25 mi B) 195,697,920 mi C) 7.02 mi D) 0.14 mi

202) In a finite mathematics class, for a particular test, we find that 1 standard deviation equals 8 points. How many points equal 4.25 standard deviations? 202) _____

A) 34 points B) 0.53 points C) 1.88 points D) 5.31 points

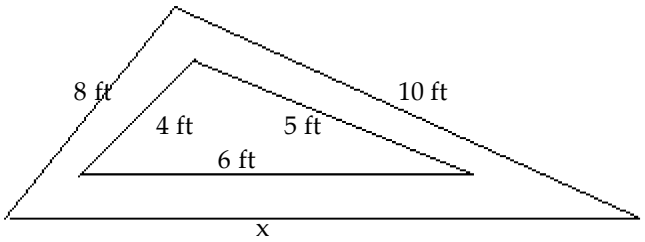
The following figures are similar. For the pair, find the length of the side indicated by x.

203) 203) _____



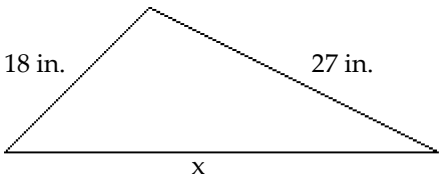
A) 27 in. B) 18 in. C) 9 in. D) 13 in.

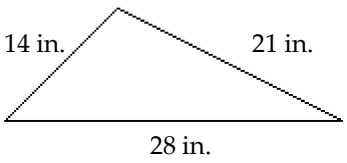
204) 204) _____



A) 14 ft B) 12 ft C) 18 ft D) 6 ft

205) 205) _____





A) 36 in. B) 28 in. C) 45 in. D) 34 in.

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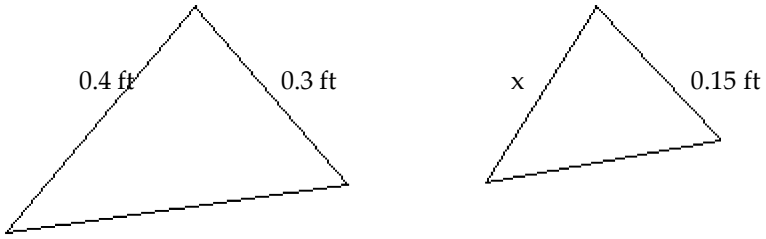
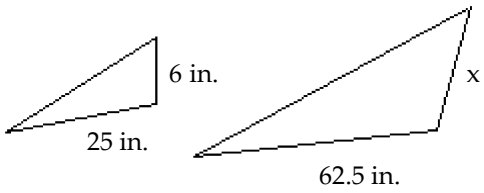
206) 206) _____



A) 0.2 ft B) 2 ft C) 0.1125 ft D) 0.8 ft

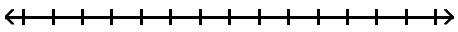
207) 207) _____



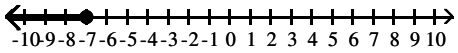
A) 150 in. B) 15 in. C) 2.4 in. D) 0.24 in.

Solve the inequality. Graph the solution on a number line and represent the solution in interval notation when possible.

208) $-3x \geq 21$ 208) _____

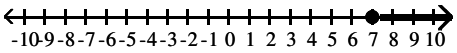


A) $x \leq -7$



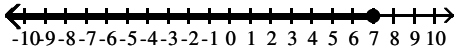
$(-\infty, -7]$

B) $x \geq 7$



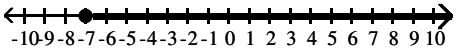
$[7, \infty)$

C) $x \leq 7$



$(-\infty, 7]$

D) $x \geq -7$



$[-7, \infty)$

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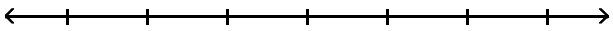
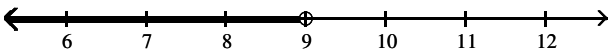
209) $x - 12 < -3$ 209) _____

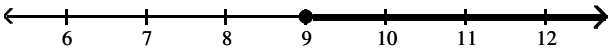


A) $x < 9$



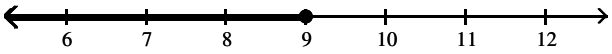
$(-\infty, 9)$

B) $x \geq 9$



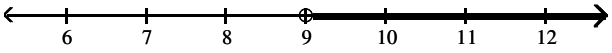
$[9, \infty)$

C) $x \leq 9$



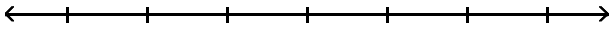
$(-\infty, 9]$

D) $x > 9$

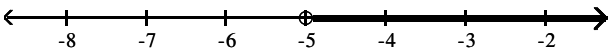


$(9, \infty)$

210) $8x - 6 > 7x - 11$ 210) _____

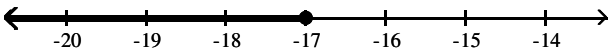


A) $x > -5$



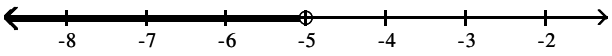
$(-5, \infty)$

B) $x \leq -17$



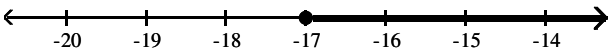
$(-\infty, -17]$

C) $x < -5$



$(-\infty, -5)$

D) $x \geq -17$



$[-17, \infty)$

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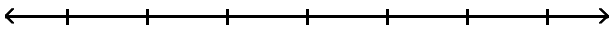
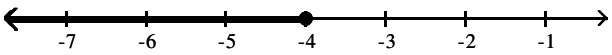
211) $8x + 12 \leq 7x + 8$ 211) _____

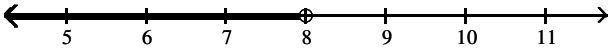


A) $x \leq -4$



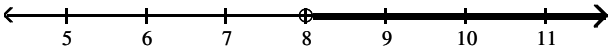
$(-\infty, -4]$

B) $x < 8$



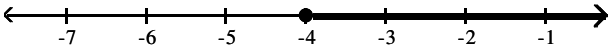
$(-\infty, 8)$

C) $x > 8$



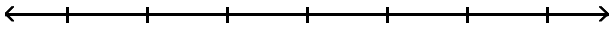
$(8, \infty)$

D) $x \geq -4$

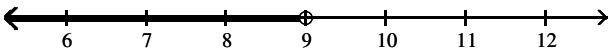


$[-4, \infty)$

212) $9x + 8 \geq 8x + 2$ 212) _____

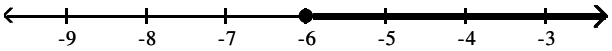


A) $x < 9$



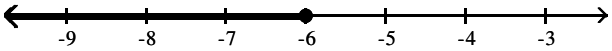
$(-\infty, 9)$

B) $x \geq -6$



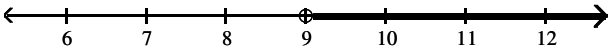
$[-6, \infty)$

C) $x \leq -6$



$(-\infty, -6]$

D) $x > 9$



$(9, \infty)$

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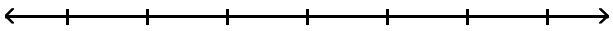
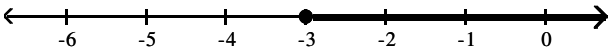
213) $x - 2 < -5$ 213) _____

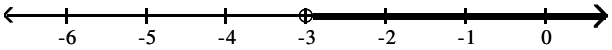


A) $x \geq -3$



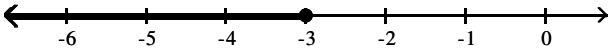
$[-3, \infty)$

B) $x > -3$



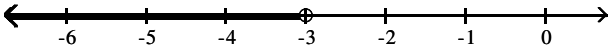
$(-3, \infty)$

C) $x \leq -3$



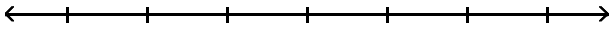
$(-\infty, -3]$

D) $x < -3$

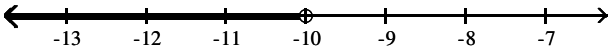


$(-\infty, -3)$

214) $10 - 10x + 2 \geq -11x + 7$ 214) _____

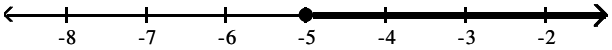


A) $x < -10$



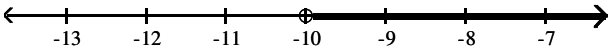
$(-\infty, -10)$

B) $x \geq -5$



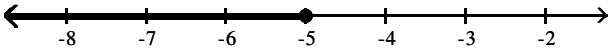
$[-5, \infty)$

C) $x > -10$



$(-10, \infty)$

D) $x \leq -5$



$(-\infty, -5]$

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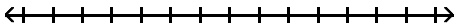
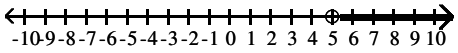
215) $3x + 7 < 22$ 215) _____

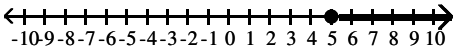


A) $x > 5$



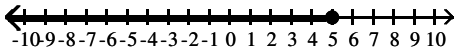
$(5, \infty)$

B) $x \geq 5$



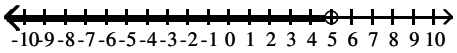
$[5, \infty)$

C) $x \leq 5$



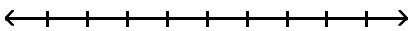
$(-\infty, 5]$

D) $x < 5$

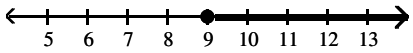


$(-\infty, 5)$

216) $-5x + 8 - 5x < 4 - 12x + 6$ 216) _____

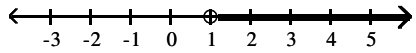


A) $x \geq 9$



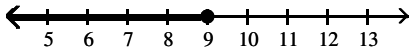
$[9, \infty)$

B) $x > 1$



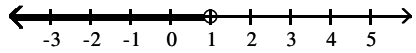
$(1, \infty)$

C) $x \leq 9$



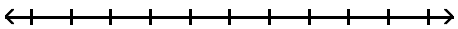
$(-\infty, 9]$

D) $x < 1$

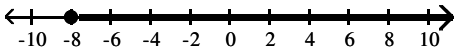


$(-\infty, 1)$

217) $10x - 5 \leq 4x - 13$ 217) _____

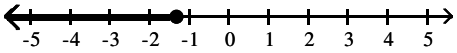


A) $x \geq -8$



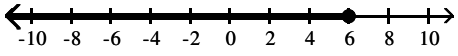
$[-8, \infty)$

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



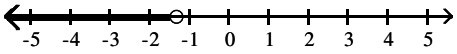
$\left(-\infty, -\frac{4}{3}\right]$

C) $x \leq 6$



$(-\infty, 6]$

D) $x < -\frac{4}{3}$



$\left(-\infty, -\frac{4}{3}\right)$

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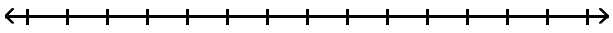
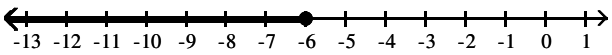
218) $-6(6x - 12) < -42x + 36$ 218) _____

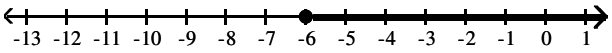


A) $x \leq -6$



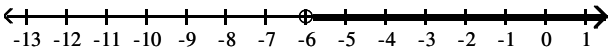
$(-\infty, -6]$

B) $x \geq -6$



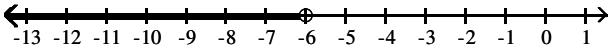
$[-6, \infty)$

C) $x > -6$



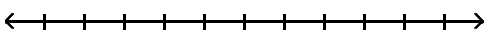
$(-6, \infty)$

D) $x < -6$

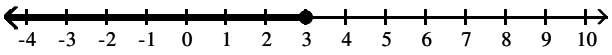


$(-\infty, -6)$

219) $28x + 12 > 4(6x + 6)$ 219) _____

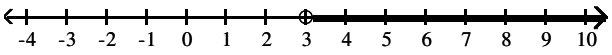


A) $x \leq 3$



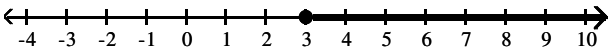
$(-\infty, 3]$

B) $x > 3$



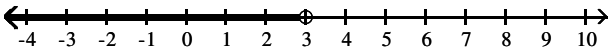
$(3, \infty)$

C) $x \geq 3$



$[3, \infty)$

D) $x < 3$



$(-\infty, 3)$

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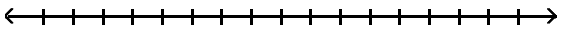
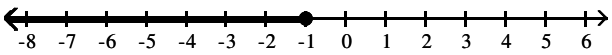
220) $-35x + 25 \le -5(6x - 6)$ 220) _____

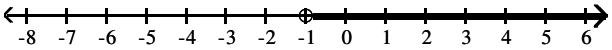


A) $x \le -1$



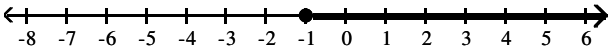
$(-\infty, -1]$

B) $x > -1$



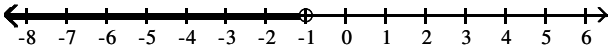
$(-1, \infty)$

C) $x \ge -1$



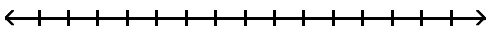
$[-1, \infty)$

D) $x < -1$

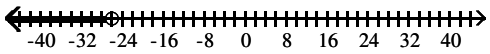


$(-\infty, -1)$

221) $\frac{x}{6} - \frac{1}{6} \le \frac{x}{4} + 2$ 221) _____

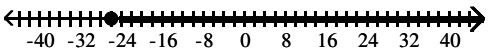


A) $x < -26$



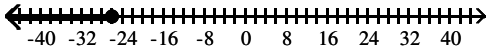
$(-\infty, -26)$

B) $x \ge -26$



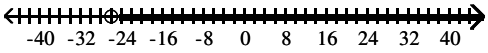
$[-26, \infty)$

C) $x \le -26$



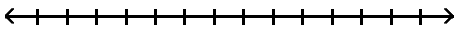
$(-\infty, -26]$

D) $x > -26$

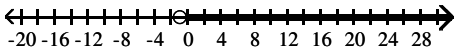


$(-26, \infty)$

222) $\frac{x-2}{8} \ge \frac{x-4}{12} + \frac{1}{24}$ 222) _____

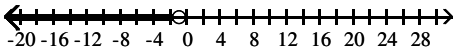


A) $x > -1$



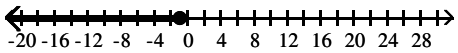
$(-1, \infty)$

B) $x < -1$



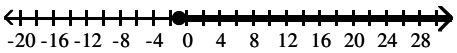
$(-\infty, -1)$

C) $x \le -1$



$(-\infty, -1]$

D) $x \ge -1$



$[-1, \infty)$

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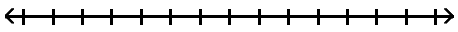
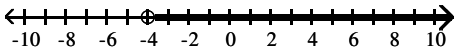
223) $1.4x + 16.4 < 4.1x + 5.6$ 223) _____

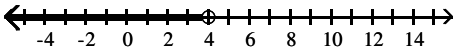


A) $x > -4$



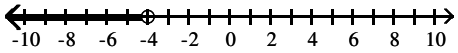
$(-4, \infty)$

B) $x < 4$



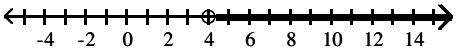
$(-\infty, 4)$

C) $x < -4$



$(-\infty, -4)$

D) $x > 4$



$(4, \infty)$

Use the table to answer the question.

224) The table gives the average high monthly temperature (in °F) for one year in Middleville. 224) _____

Jan	Feb	Dec	Nov	Oct	Mar	Apr	Sep	May	Jun	Jul	Aug
27°	33°	34°	36°	42°	45°	48°	60°	66°	75°	81°	85°

In what months was the average high temperature ≤ 42°F?

A) Jan, Feb Dec, Nov, Oct

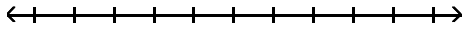
B) Mar, Apr, Sep, May, Jun, Jul, Aug

C) Jan, Feb Dec, Nov, Oct, Mar

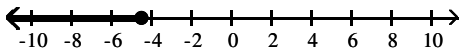
D) Jan, Feb Dec, Nov

Solve the inequality. Graph the solution on a number line and represent the solution in interval notation when possible.

225) $x + 5 \geq x - 4$ 225) _____

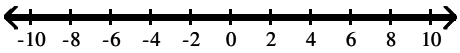


A) $x \leq -\frac{9}{2}$



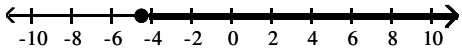
$\left(-\infty, -\frac{9}{2}\right]$

B) all real numbers



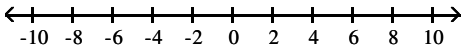
$(-\infty, \infty)$

C) $x \geq -\frac{9}{2}$



$\left[-\frac{9}{2}, \infty\right)$

D) no solution



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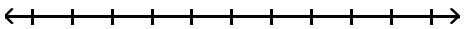
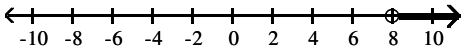
226) $-4(-2 - x) < 6x + 19 - 11 - 2x$ 226) _____

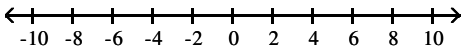


A) $x > 8$

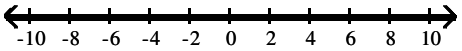


$(8, \infty)$

B) no solution

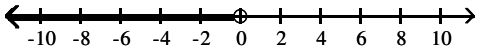


C) all real numbers



$(-\infty, \infty)$

D) $x < 0$



$(-\infty, 0)$

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

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

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

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

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201) C
202) A
203) B
204) B
205) A
206) A
207) B
208) A
209) A
210) A
211) A
212) B
213) D
214) B
215) D
216) D
217) B
218) D
219) B
220) C
221) B
222) D
223) D
224) A
225) B
226) B

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