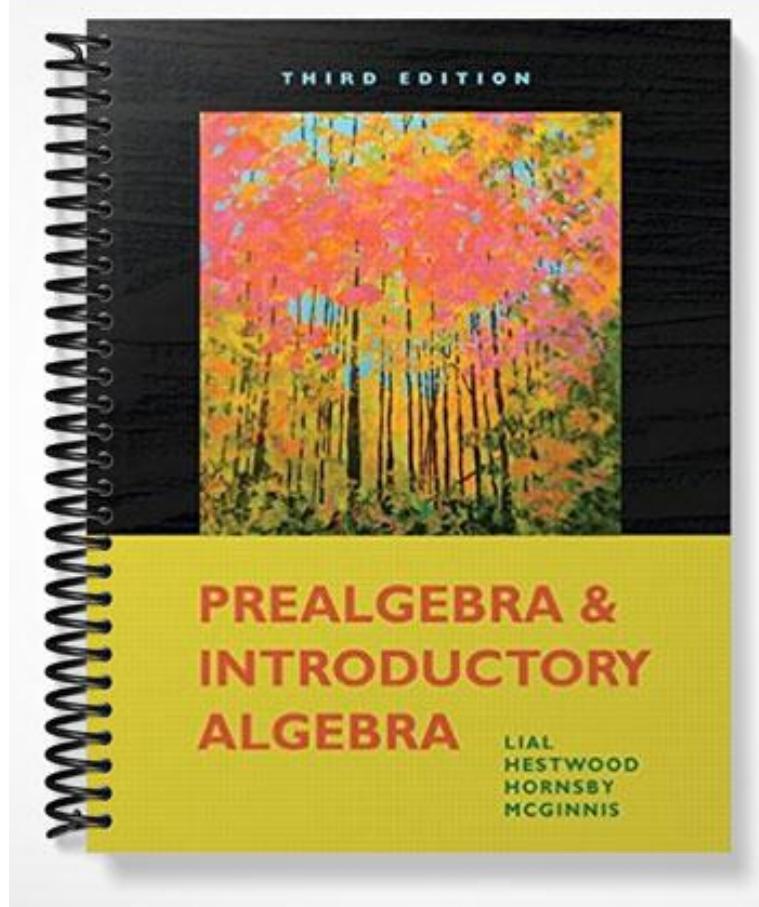


TEST BANK



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

Identify the parts of each expression. Choose from these labels: variable, constant, and coefficient.

1) $t + 12$

- A) t is a variable; 12 is a variable.
- C) t is a variable; 12 is a constant.

Answer: C

1) _____

- B) t is a constant; 12 is a constant.
- D) t is a constant; 12 is a variable.

2) $5k$

- A) 5 is a constant; k is a variable.
- C) 5 is a coefficient; k is a variable.

Answer: C

2) _____

- B) 5 is a coefficient; k is a constant.
- D) 5 is a variable; k is a constant

3) $t^{-4} + t$

- A) t^{-4} is a constant; t is a constant.
- C) t^{-4} is a constant; t is a variable.

Answer: C

3) _____

- B) t^{-4} is a variable; t is a variable.
- D) t^{-4} is a variable; t is a constant.

4) $\frac{c}{d}$

- A) c is a constant; d is a constant.
- C) c is a constant; d is a variable.

Answer: B

4) _____

- B) c is a variable; d is a variable.
- D) c is a variable; d is a constant.

5) $2h + 20$

- A) 2 is a variable; h is a variable; 20 is a constant.
- B) 2 is a coefficient; h is a constant; 20 is a constant.
- C) 2 is a coefficient; h is a variable; 20 is a constant.
- D) 2 is a coefficient; h is a variable; 20 is a variable.

Answer: C

5) _____

6) $t^{-23}g$

- A) t^{-23} is a variable; g is a variable.
- C) t^{-23} is a coefficient; g is a variable.

Answer: C

6) _____

- B) t^{-23} is a coefficient; g is a constant.
- D) t^{-23} is a variable; g is a constant.

Evaluate the expression.

7) The expression (rule) for finding the total time for a commuting trip is $d + 15$ where d is the normal driving time and 15 is the number of minutes added to allow for delays. Find the total commuting time when the normal driving time is 52 minutes.

- A) 104 min
- B) 52 min
- C) 37 min
- D) 67 min

Answer: D

7) _____

8) The expression (rule) for finding the perimeter of a hexagon (6 sides) with sides of equal length is $6s$, where s is the length of one side. Evaluate the expression when the length of one side is 10 centimeters.

- A) 16 cm
- B) 60 cm
- C) 50 cm
- D) 70 cm

Answer: B

8) _____

9) The expression (rule) for finding the gas mileage rate for a car or truck is m/g , where m is the number of miles travelled and g is the number of gallons of gas used. Evaluate the expression

wh150
en miles

were 9)

travelled

and 6

gallons

of gas

were

used.

A) 144 m/g

B) 156 m/g

C) 25 m/g

D) 50 m/g

Answer: C

- 10) The expression (rule) for determining how many boxes of paper to order each week for an accounting office is $2e + 5$, where e is the number of employees. Evaluate the expression for 5 employees.

A) 16 boxes

B) 5 boxes

C) 10 boxes

D) 15 boxes

Answer: D

Evaluate the expression to determine the entry missing from the table.

Value of x	Expression
-7	$5x$ $5 \cdot -7 \text{ is } -35$
2	

A) $5 + 2 \text{ is } 10$

B) $5 + 2 \text{ is } 7$

C) $5 \cdot 2 \text{ is } 10$

D) $5 \cdot 2 \text{ is } 8$

Answer: C

10) _____

Value of x	Expression
-6	$3x + x$ $3 \cdot -6 + -6 \text{ is } -24$
4	

A) $3 \cdot 4 + 4 \text{ is } 20$

B) $3 \cdot 4 + 4 \text{ is } 16$

C) $3 \cdot 4 \cdot 4 \text{ is } 16$

D) $3 \cdot 4 \text{ is } 16$

Answer: B

11) _____

Value of x	Value of y	Expression
7	9	$2 \cdot 7 \cdot 9 \text{ is } 126$
-1	5	

A) $2 \cdot -1 \cdot -1 \text{ is } -10$

B) $3 \cdot -1 \cdot 5 \text{ is } -15$

C) $3 \cdot -1 \cdot 5 \text{ is } -10$

D) $2 \cdot -1 \cdot 5 \text{ is } -10$

Answer: D

12) _____

Value of x	Value of y	Expression
6	7	$-3xy$ $-3 \cdot 6 \cdot 7 \text{ is } -126$
5	-2	

A) $-3 \cdot -2 \cdot -2 \text{ is } 30$

B) $-3 \cdot 5 \cdot -2 \text{ is } -30$

C) $-3 \cdot 5 \cdot -2 \text{ is } 30$

D) $-3 \cdot 5 \cdot 5 \text{ is } 30$

Answer: C

13) _____

15)

Value of x	Value of y	Expression
6	7	$-2 \cdot 6 + 7$ is -5
1	-3	

A) $-2 \cdot -3 = -3$ is
3

B) $-2 \cdot 1 = -3$ is
-5

C) $-2 \cdot -3 = 1$ is
7

D) $-2 \cdot 1 = 1$ is
-1

Answer: B

Rewrite the given expression without exponents.

16) t^4

A) $t + 4$

B) $\frac{t}{4}$

C) $t + t + t + t$

D) $t \cdot t \cdot t \cdot t$

16) _____

Answer: D

17) g^6

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

C) $g + 6$

Answer: D

B) $g + g + g + g + g + g$

D) $g \cdot g \cdot g \cdot g \cdot g \cdot g$

17) _____

18) $w^5 z^3$

A) $w \cdot w \cdot w \cdot w \cdot w \cdot z \cdot z \cdot z$
C) $w + w + w + z + z + z + z + z$

Answer: A

B) $w + w + w + w + w + z + z + z$
D) $w \cdot w \cdot w \cdot z \cdot z \cdot z \cdot z \cdot z$

18) _____

19) $x^2 y^4$

A) $-1 \cdot x + x + x + x + y + y$
C) $-1 \cdot x \cdot x \cdot y \cdot y \cdot y \cdot y$

Answer: C

B) $-1 \cdot x + x + y + y + y + y$
D) $-1 \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y$

19) _____

20) $r^3 y^2$

A) $-2 \cdot r + r + y + y + y$
C) $-2 \cdot r \cdot r \cdot y \cdot y \cdot y$

Answer: B

B) $-2 \cdot r \cdot r \cdot r \cdot y \cdot y$
D) $-2 \cdot r + r + r + y + y$

20) _____

21) $13d^3k^4$

A) $13 \cdot d + d + d + k + k + k + k$
C) $13 \cdot d \cdot d \cdot d \cdot d \cdot k \cdot k \cdot k$

Answer: B

B) $13 \cdot d \cdot d \cdot d \cdot k \cdot k \cdot k \cdot k$
D) $13 \cdot d + d + d + d + k + k + k$

21) _____

22) $12h^4m^2$

A) $12 \cdot h \cdot h \cdot h \cdot h \cdot m \cdot m$
C) $12 \cdot h + h + m + m + m + m$

Answer: A

B) $12 \cdot h \cdot h \cdot m \cdot m \cdot m \cdot m$
D) $12 \cdot h + h + h + h + m + m$

22) _____

23) $f^3 g^5$

A) $-23 \cdot f + f + f + g + g + g + g + g$
C) $-23 \cdot f + f + f + f + f + g + g + g$

Answer: D

B) $-23 \cdot f \cdot f \cdot f \cdot f \cdot f \cdot g \cdot g \cdot g$
D) $-23 \cdot f \cdot f \cdot f \cdot g \cdot g \cdot g \cdot g \cdot g$

23) _____

Answer: B

35) $\frac{y^2}{x+2y}$; when x is -3 and y is 3.

- A) undefined B) 0

- C) 3 D) -3

Answer: C

35) _____

Identify the like terms in the given expression. Then identify the coefficients of the like terms.

36) $9t^2 + 10t + -2rt + 2t^2$

- A) Like Terms: 9 and 2
Coefficients: $9t^2$ and $2t^2$
C) Like Terms: $9t^2$ and $2t^2$
Coefficients: 9 and 2

- B) Like Terms: $9t^2$ and $10t$
Coefficients: 9 and 10
D) Like Terms: $10t$ and $-2rt$
Coefficients: 10 and 2

Answer: C

36) _____

37) $8x^2y + 10xy + -8xy^2 + 12x + 4xy + -4x^2y^3 + 12$

- A) Like Terms: $4xy$ and $12x$
Coefficients: 4 and 12
C) Like Terms: $10xy$ and $4xy$
Coefficients: 10 and 4

- B) Like Terms: 10 and 4
Coefficients: $10xy$ and $4xy$
D) Like Terms: $8x^2y$ and $-8xy^2$
Coefficients: 8 and -8

Answer: C

37) _____

38) $2k + 10n + -6k + -8kn + 12$

- A) Like Terms: $-6k$ and $-8kn$
Coefficients: 6 and 8
C) Like Terms: $2k$ and $-6k$
Coefficients: 2 and -6

- B) Like Terms: $10n$ and $-8kn$
Coefficients: 10 and 12
D) Like Terms: 2 and -6
Coefficients: $2k$ and $-6k$

Answer: C

38) _____

Simplify the given expression.

39) $14t + 8t$

- A) $22t^2$ B) $6t$

- C) $22t$ D) $-22t$

39) _____

Answer: C

40) $17mn - 17mn$

- A) $34mn$ B) 0

- C) $-mn$ D) mn

40) _____

Answer: B

41) $18y^2 + 3y^2$

- A) $21y^4$ B) $21y$

- C) $21y^2$ D) $-21y^2$

41) _____

Answer: C

42) $25wy^3z - 5wy^3z$

- A) $20w^2y^6z^2$ B) $-20wy^3z$

- C) $30wy^3z$ D) $20wy^3z$

42) _____

Answer: D

43) $3hk + 2hk + 5hk$

- A) -10

43) _____

$$h^2 k^2$$

B) $\frac{-10}{hk}$

C) $\frac{10}{hk}$

D) $\frac{10}{h^2 k^2}$

Answer: C

44) $7ef + 8ef - 30ef$
A) $-15e^2f^2$

B) $15ef$

C) $15e^2f^2$

D) $-15ef$

44) _____

Answer: D

45) $-4z - 6z - 2z$
A) $-12z$

B) $-12z^2$

C) $12z^2$

D) $12z$

45) _____

Answer: A

Simplify the given expression. Write the answer with variables in alphabetical order and any constant term last.

46) $12s + 7t + 13s$
A) $25s^2 + 7t$

B) $19t + 13s$

C) $25s + 7t$

D) $-25s + 7t$

46) _____

Answer: C

47) $13 + 6t + 10$
A) $6t + 130$

B) $6t - 23$

C) $6t^2 + 23$

D) $6t + 23$

47) _____

Answer: D

48) $10xy^2 + 13xy + 11xy^2$
A) $21x^2y + 13xy$

B) $23xy^2 + 11xy$

C) $21x^2y^4 + 13xy$

D) $21xy^2 + 13xy$

48) _____

Answer: D

49) $-14y^2z + 12xy^2 - 9y^2z + 15$
A) $12xy^2 - 23y^2z + 15$

C) $12x^2y^2 + 23y^2z + 15$

B) $-12xy^2 + 23y^2z + 15$

D) $-12xy^2 - 23y^2z + 15$

49) _____

Answer: A

50) $8m^2 + 7m - 16m^2 + 14m$
A) $-8m^2 + 21m$

B) $8m^2 + 21m$

C) $8m^2 - 21m$

D) $-8m^2 - 21m$

50) _____

Answer: A

51) $-13y^3 + 13y - 9y^2 + 6$
A) $22y^2 - 13y + 6$

C) $-22y^2 + 13y + 6$

B) $-22y^3 + 13y + 6$

D) cannot be simplified

51) _____

Answer: D

52) $-8b + 5a - 3c - 3b - 8a$
A) $-3a - 11b$

C) $-3a - 11b - 3c$

B) $13a - 11b - 3c$

D) cannot be simplified

52) _____

Answer: C

Simplify by using the associative property of multiplication.

53) $2(4t)$ A) $6t$ B) $-6t$ C) $8t$ D) $-8t$ 53) _____

Answer: C

54) $-9(8z^3)$ A) $-17z^3$ B) $-72z^3$ C) $17z^3$ D) $72z^3$ 54) _____

Answer: B

55) $10(-9p^2)$ A) $90p^2$ B) $-19p^2$ C) $-90p^2$ D) $19p^2$ 55) _____

Answer: C

56) $-10(-5fg^2)$ A) $50fg^2$ B) $50f^2g^4$ C) $-50f^2g^4$ D) $-50fg^2$ 56) _____

Answer: A

57) $9(3fg^2h)$ A) $27fg^2h$ B) $27f^2g^4h^2$ C) $-27f^2g^4h^2$ D) $-27fg^2h$ 57) _____

Answer: A

58) $-2(-d)$ A) $-2d$ B) $3d$ C) $2d$ D) $-3d$ 58) _____

Answer: C

Use the distributive property to simplify this expression.

59) $6(t + 7)$ A) $6t - 7$ B) $6t + 7$ C) $6t - 42$ D) $6t + 42$ 59) _____

Answer: D

60) $9(z - 2)$ A) $9z - 2$ B) $9z + 18$ C) $9z - 18$ D) $9z + 2$ 60) _____

Answer: C

61) $-5(5k - 4)$ A) $25k - 20$ B) $-25k + 20$ C) $25k + 20$ D) $-25k - 20$ 61) _____

Answer: B

62) $-3(d + 4)$ A) $-3d - 12$ B) $-3d + 12$ C) $-3d + 4$ D) $-3d - 4$ 62) _____

Answer: A

Simplify the given expression.

63) $-5(y + 2) + 10y$ A) $-5y + 10$ B) $-5y - 10$ C) $5y + 10$ D) $5y - 10$ 63) _____

Answer: D

64) $4(w - 6) + 4$ A) $4w - 28$ B) $4w - 20$ C) $4w + 20$ D) $4w + 28$ 64) _____

Answer: B

65) $6 + 3(9t + 4)$

A) $6t + 10$

B) $27t + 18$

C) $3t + 10$

D) $3t + 18$

65) _____

Answer: B

66) $4 + 2(5w + 5) - w$

A) $9w + 9$

B) $11w - 14$

C) $9w + 14$

D) $11w + 14$

66) _____

Answer: C

67) $3 - 3(5w - 2) + w$

A) $14w + 9$

B) $14w - 9$

C) $-14w + 9$

D) $-14w - 9$

67) _____

Answer: C

68) $-2 + 2(-2w + 8) + 5(8w - 1)$

A) $36w + 9$

B) $36w - 9$

C) $-36w - 9$

D) $-36w + 9$

68) _____

Answer: A

69) $-3(-2z) - 7 + 6(2z + 9)$

A) $6z + 47$

B) $18z + 2$

C) $18z + 47$

D) $18z - 47$

69) _____

Answer: C

70) $-6(-4n) + 8(n - 2) + 4(-2n) + 16 + n$

A) $-25n$

B) $24n + 1$

C) $24n$

D) $25n$

70) _____

Answer: D

Select the solution of the given equation from the answer choices provided.

71) $y + 4 = 21$

A) 17

B) -25

C) 25

D) -17

71) _____

Answer: A

72) $y + 8 = -12$

A) 4

B) -20

C) 20

D) -4

72) _____

Answer: B

73) $z + 2 = 0$

A) -2

B) 4

C) 2

D) 0

73) _____

Answer: A

Solve the given equation.

74) $w + 8 = 21$

A) $w = 29$

B) $w = -29$

C) $w = -13$

D) $w = 13$

74) _____

Answer: D

75) $15 = e - 6$

A) $e = -9$

B) $e = 21$

C) $e = 9$

D) $e = -21$

75) _____

Answer: B

76) $-7 = z + 2$

A) $z = -9$

B) $z = 5$

C) $z = 9$

D) $z = -5$

76) _____

Answer: A

77) $-7 + h = 13$

A) $h = 6$

B) $h = -20$

C) $h = -6$

D) $h = 20$

77) _____

Answer: D

78) $y - 8 = 0$

A) $y = 0$

B) $y = 16$

C) $y = 8$

D) $y = -8$

78) _____

Answer: C

79) $m - 4 = -23$

A) $m = 19$

B) $m = -19$

C) $m = 27$

D) $m = -27$

79) _____

Answer: B

Determine whether the equation balances when the proposed solution is tested.

80) $w - 5 = 7$

Solution is 12

A) Balances

Answer: A

80) _____

B) Does not balance

81) $3 + s = 5$

Solution is 8

A) Does not balance

Answer: A

81) _____

B) Balances

82) $-5 = -14 + w$

Solution is 9

A) Does not balance

Answer: B

82) _____

B) Balances

Simplify each side of the equation, if possible. Then solve the equation.

83) $p - 15 = -2 + 8$

A) $p = -25$

B) $p = 25$

C) $p = 21$

D) $p = -21$

83) _____

Answer: C

84) $8 + n = -2 - 7$

A) $n = -1$

B) $n = 17$

C) $n = 1$

D) $n = -17$

84) _____

Answer: D

85) $14r - 13r = -2 + 6$

A) $r = -8$

B) $r = 8$

C) $r = -4$

D) $r = 4$

85) _____

Answer: D

86) $-11w - 7 + 12w = -1 + 11$

A) $w = -19$

B) $w = 19$

C) $w = 17$

D) $w = -17$

86) _____

Answer: C

87) $-15 + 15 = 13 + r$

A) $r = -26$

B) $r = 26$

C) $r = -13$

D) $r = 13$

87) _____

Answer: C

- 88) $-12k + 13k = 23 - 2 + 2$ 88) _____
 A) $k = 23$ B) $k = -27$ C) $k = -23$ D) $k = 27$
- Answer: A
- 89) $-8 - 1 + 13 = 7y - 12 - 6y + 1$ 89) _____
 A) $y = -1$ B) $y = 15$ C) $y = 8$ D) $y = -15$
- Answer: B
- 90) $-4 - 5 + 10 = 6m - 10 - 5m + 5$ 90) _____
 A) $m = 7$ B) $m = 6$ C) $m = -1$ D) $m = -6$
- Answer: B
- 91) $-20 - 4 - 5 + 13 = -11 - 4n + 6 + 5n$ 91) _____
 A) $n = -33$ B) $n = 11$ C) $n = -21$ D) $n = -11$
- Answer: D
- 92) $-6x + 3x + 9 + 4x = |1 - 5| - |-5 + 3|$ 92) _____
 A) $x = -7$ B) $x = 2$ C) $x = 15$ D) $x = -3$
- Answer: A
- Solve the problem.**
- 93) The BBQ committee always orders one pound of ribs for each person who signs up for the Homecoming BBQ, plus 17 extra pounds of ribs. The committee ordered 120 pounds of ribs this year. Solving the equation $n + 17 = 120$ will give the number of people who signed up for the BBQ. Solve the equation. 93) _____
 A) $n = 137$ B) $n = 17$ people C) $n = 103$ D) $n = 120$ people
 Answer: C
- 94) Alex always takes \$10 more than he anticipates needing on a date. Alex takes \$50 on his date with Judith. Solving the equation $d + 10 = 50$ will give you the amount of money Alex anticipates needing for this date. Solve the equation. 94) _____
 A) $d = \$40$ B) $d = \$10$ C) $d = \$50$ D) $d = \$60$
 Answer: A
- Solve the given equation.**
- 95) $3g = 0$ 95) _____
 A) $g = 0$ B) $g = 1$ C) $g = -3$ D) $g = 3$
 Answer: A
- 96) $-13d = 0$ 96) _____
 A) $d = -13$ B) $d = 0$ C) $d = 13$ D) $d = 1$
 Answer: B
- 97) $4y = 4$ 97) _____
 A) $y = -1$ B) $y = 1$ C) $y = 0$ D) $y = -4$
 Answer: B
- 98) $-4k = 4$ 98) _____

A) $k = 0$

B) $k = 1$

C) $k = -4$

D) $k = -1$

Answer: D

99) $-13_m = 39$

A) $m = 0$

B) $m = 3$

C) $m = -3$

D) $m = -26$

Answer: C

99) _____

100) $7_z = -14$

A) $z = 14$

B) $z = 2$

C) $z = -14$

D) $z = -2$

Answer: D

100) _____

101) $-20 = -5_t$

A) $t = 10$

B) $t = 4$

C) $t = -4$

D) $t = -10$

Answer: B

101) _____

102) $24 = -3_w$

A) $w = -24$

B) $w = 8$

C) $w = 24$

D) $w = -8$

Answer: D

102) _____

Simplify where possible. Then solve the equation.

103) $2t = -9 + 13$

A) $t = 2$

B) $t = -11$

C) $t = 11$

D) $t = -2$

Answer: A

103) _____

104) $-4 = 5y - y$

A) $y = \frac{2}{3}$

B) $y = -6$

C) $y = 1$

D) $y = -1$

Answer: D

104) _____

105) $17 - 5 = 4r$

A) $r = 0$

B) $r = 3$

C) $r = -6$

D) $r = -3$

Answer: B

105) _____

106) $x - 5x = 48$

A) $x = -16$

B) $x = -12$

C) $x = 12$

D) $x = 16$

Answer: B

106) _____

107) $5 - 5 = 6f - 5f$

A) $f = -1$

B) $f = 5$

C) $f = 0$

D) $f = 1$

Answer: C

107) _____

108) $4q + 5q = 24 - 7 + 10$

A) $q = 3$

B) $q = 9$

C) $q = -9$

D) $q = -3$

Answer: A

108) _____

109) $-11_d = 0$

A) $d = -11$

B) $d = -1$

C) $d = 1$

D) $d = 0$

Answer: D

109) _____

110) $-25w + 11w = 14 - 42$

A) $w = -2$

B) $w = 14$

C) $w = 2$

D) $w = -14$

Answer: C

110) _____

111) $90 - 55 = 3x - 8x$

A) $x = 7$

B) $x = 35$

C) $x = -35$

D) $x = -7$

Answer: D

111) _____

Use multiplication to simplify the side of the equation with the variable. Then solve the equation.

112) $3(5w) = -45$

A) $w = -15$

B) $w = -3$

C) $w = 15$

D) $w = 3$

Answer: B

112) _____

113) $-2(-7x) = 28$

A) $x = 2$

B) $x = 7$

C) $x = 4$

D) $x = 14$

Answer: A

113) _____

114) $72 = -3(-4x)$

A) $x = 60$

B) $x = -6$

C) $x = 864$

D) $x = 6$

Answer: D

114) _____

115) $45 = 5(-3w)$

A) $w = 15$

B) $w = 3$

C) $w = -3$

D) $w = -15$

Answer: C

115) _____

Solve the equation.

116) $-x = 19$

A) $x = 0$

B) $x = 19$

C) $x = -19$

D) $x = 1$

Answer: C

116) _____

117) $-x = -47$

A) $x = 47$

B) $x = -47$

C) $x = 1$

D) $x = 0$

Answer: A

117) _____

118) $11 = -z$

A) $z = 0$

B) $z = 11$

C) $z = -11$

D) $z = 1$

Answer: C

118) _____

Solve the problem.119) The perimeter of a square is 4 times the length of one side, s . If the perimeter is 20 feet, solving the equation $4s = 20$ will give the length of one side. Solve the equation.

119) _____

A) $s = 24$ feet

B) $s = 6$ feet

C) $s = 5$ feet

D) $s = 20$ feet

Answer: C

120) The perimeter of an octagon with sides of equal length is 8 times the length of one side, s . If the perimeter is 96 meters, solving the equation $8s = 96$ will give the length of one side. Solve the equation.

120) _____

A) $s = 24$ meters

B) $s = 48$ meters

C) $s = 96$ meters

D) $s = 12$ meters

Answer: D

Solve the equation.

121) $4 - 54 = -3(-3m) - 8(2m) + 2m$
A) $m = 10$ B) $m = 5$

C) $m = 0$

D) $m = -10$

121) _____

Answer: A

122) $-8(3x) + 2(13x) = |53 - 53| + |-10 + 36|$
A) $x = -13$ B) $x = 13$

C) $x = 18$

D) $x = -18$

122) _____

Answer: B

123) $5(8w) - 5w - 10(4w) = |-35 - 56| - 56$
A) $w = -8$ B) $w = 1$

C) $w = 7$

D) $w = -7$

123) _____

Answer: D

124) $3t + 13 = 16$
A) $t = -1$ B) $t = 1$

C) $t = 3$

D) $t = 0$

124) _____

Answer: B

125) $12 = 5y + 17$
A) $y = 5$ B) $y = 1$

C) $y = -1$

D) $y = 0$

125) _____

Answer: C

126) $17r + 28 = 28$
A) $r = -1$ B) $r = 1$

C) $r = 2$

D) $r = 0$

126) _____

Answer: D

127) $24j + 30 = 22j + 34$
A) $j = 2$ B) $j = 4$

C) $j = -4$

D) $j = -2$

127) _____

Answer: A

128) $-8 + 3y = 8y + 7$
A) $y = -3$ B) $y = 3$

C) $y = 2$

D) $y = -2$

128) _____

Answer: A

129) $2k + 6 = 0$
A) $k = 2$ B) $k = -3$

C) $k = -2$

D) $k = 3$

129) _____

Answer: B

130) $g - 6 = 16 - 10g$
A) $g = 2$ B) $g = -2$

C) $g = 12$

D) $g = -12$

130) _____

Answer: A

Use the distributive property to help solve the given equation.

131) $7(z - 9) = 21$
A) $z = -9$ B) $z = 12$

C) $z = -12$

D) $z = 9$

131) _____

Answer: B

132) $-14 = 7(y + 6)$
A) $y = -8$ B) $y = -6$

C) $y = 8$

D) $y = 6$

132) _____

Answer: A

133) $-4(m - 7) = 0$

A) $m = 0$

B) $m = 7$

C) $m = 8$

D) $m = -7$

133) _____

Answer: B

134) $6(w - 13) = -18$

A) $w = -13$

B) $w = 13$

C) $w = 10$

D) $w = -10$

134) _____

Answer: C

Solve the equation.

135) $3(x - 6) + 9 = -1 + x - 26$

A) $x = 9$

B) $x = 4$

C) $x = -4$

D) $x = -9$

135) _____

Answer: D

136) $-6 + 10y + 18 = 4(2y - 6) - 8$

A) $y = -4$

B) $y = 22$

C) $y = 4$

D) $y = -22$

136) _____

Answer: D

137) $-3(2p + 8) - 16 = -2(p + 9) + 6$

A) $p = -9$

B) $p = -7$

C) $p = 9$

D) $p = 7$

137) _____

Answer: B

138) $8x - 11x + 13x = 40 - 16x + 6x$

A) $x = 2$

B) $x = -2$

C) $x = -3$

D) $x = 3$

138) _____

Answer: A

139) $10x + 1 = 12x - 7$

A) $x = 4$

B) $x = 8$

C) $x = 3$

D) $x = 2$

139) _____

Answer: A

140) $2x - 2x = -8 - 3x$

A) $x = \frac{3}{8}$

B) $x = \frac{8}{3}$

C) $x = -\frac{3}{8}$

D) $x = -\frac{8}{3}$

140) _____

Answer: D

Provide an appropriate response.141) Identify the variable and the constant in this expression: $7x - x^2 + 3x^3 + 22$

141) _____

A) variable $7x$; constant $3x^3$ B) variable x ; constant $7x$ C) variable x ; constant 22 D) variable 22 ; constant x

Answer: C

142) Use the variable x to express the following property:

142) _____

adding zero to a number leaves the number unchanged.

A) $\frac{0}{x} = 0$

B) $\frac{x}{0}$ is

C) $x \cdot 1 = x$

D) $x + 0 = x$

undefined.

Answer: D

143) Use the variable x to express the following property:

Any numb

er 143)

divided
by zero
is
undefined.

A) $\frac{0}{x} = 0$

B) $x \cdot 1 = x$

C) $x + 0 = x$

D) $\frac{x}{0}$ is undefined.

Answer: D

144) In this expression, which two terms are like terms? $9xy - 17x + 18 + 6xy + 7x^2y + 7xy^2 + 18y$

144) _____

A) $9xy$ and $6xy$

B) $9xy$ and $7xy^2$

C) $7x^2y$ and

$7xy^2$

D) 18 and $18x$

Answer: A

145) Which one of the following is an expression?

145) _____

9(x + 5)

$9(x + 5) = 9x + 45$

$3 \cdot 1 = 3$

$20 + 0 = 20$

A) $3 \cdot 1 = 3$

B) $20 + 0 = 20$

C) $9(x + 5)$

D) $9(x + 5) = 9x + 45$

Answer: C

146) Does this process illustrate the addition property of equality?

146) _____

$8x + 2 + 8 = 5(x + 4) - 25$

$8x + 10 = 5(x + 4) - 25$

A) No

B) Yes

Answer: A

147) What property does this process illustrate?

147) _____

$8 - 8(x + 3) = 4 - 15x$

$8 - 8x - 24 = 4 - 15x$

A) Distributive Property

B) Addition Property of Equality

C) Division Property of Equality

D) Combining Like Terms

Answer: A

148) What is the next step to solve the following equation for x?

148) _____

$-x = 23$

A) Add -23 to both sides.

B) Divide both sides by -1 .

C) Add -1 to both sides.

D) Divide both sides by 23 .

Answer: B

149) What is the next reasonable step to solve the following equation for x?

149) _____

$-3x + 17 = 10x - 9$

A) Divide both sides by 17 .

B) Add -17 to both sides.

C) Combine $10x$ and -9 .

D) Combine $-3x$ and 17 .

Answer: B

150) What is the next reasonable step to solve the following equation for x?

150) _____

$5 + 4(x + 7) = 25x - 3$

A) Divide both sides by 5 .

B) Add 5 and 4 .

C) Combine $25x$ and -3 .

Answer: D

D) Use the distributive property.

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

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

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