Prealgebra 6th Edition Lial Test Bank

Answer: A

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

		sion. Choose from these labels:	variable, constant, and	coefficient.		
1) t + 12	*	D) (' 1.1 1/2	2		
	A) t is a constant; 12 C) t is a variable; 12		B) t is a variable; 12 D) t is a constant; 12			
	Answer: B		,			
2	2) 8k					
	A) 8 is a coefficient; C) 8 is a constant; k		B) 8 is a coefficient D) 8 is a variable; k			
	Answer: B					
3	3) ⁻ 20 + t					
	A) ⁻ 20 is a variable; t is a variable. C) ⁻ 20 is a variable; t is a constant.		· · · · · · · · · · · · · · · · · · ·	B) ⁻ 20 is a constant; t is a constant. D) ⁻ 20 is a constant; t is a variable.		
	Answer: D					
4	$\frac{a}{b}$					
	A) a is a variable; b is a constant.C) a is a constant; b is a variable.			B) a is a variable; b is a variable. D) a is a constant; b is a constant.		
	Answer: B		,			
5	i) 14h + 9					
	A) 14 is a coefficient; h is a variable; 9 is a constant. C) 14 is a coefficient; h is a variable; 9 is a variable.		· · · · · · · · · · · · · · · · · · ·	B) 14 is a coefficient; h is a constant; 9 is a constant. D) 14 is a variable; h is a variable; 9 is a constant.		
	Answer: A					
6	6) -20g					
	A) ⁻ 20 is a variable; g C) ⁻ 20 is a coefficient			B) ⁻ 20 is a variable; g is a variable. D) ⁻ 20 is a coefficient; g is a constant.		
	Answer: C					
Evaluate	the expression.					
7	· · · · · ·	or finding the total time for a com f minutes added to allow for dela-	0 1	S		
	A) 49 min	B) 34 min	C) 64 min	D) 98 min		
	Answer: C					
8	3) 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 12 centimeters.					
	A) 60 cm	B) 72 cm	C) 18 cm	D) 84 cm		
	Answer: B					
9	9) The expression (rule) for finding the gas mileage rate for a car or truck is m/g, where m is the number of mil travelled and g is the number of gallons of gas used. Evaluate the expression when 110 miles were travelled and 5 gallons of gas were used.					
	A) 22 m/g	B) 44 m/g	C) 115 m/g	D) 105 m/g		

- 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 13 employees.
 - A) 32 boxes
- B) 26 boxes
- C) 31 boxes
- D) 21 boxes

Answer: C

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

	Value	Expression			
11)	of x	5x			
11)	⁻ 7	5 · 7 is 35			
	-5				
A) $5 - 5$ is -25					

B) 5 - 5 is 0

C) 5 · -5 is -20

D) $5 \cdot -5$ is -25

Answer: D

B) 3 · 2 is 8

C) $3 \cdot 2 + 2$ is 8

D) $3 \cdot 2 + 2$ is 10

Answer: C

Answer: A

A) $^{-}3 \cdot 2 \cdot ^{-}4$ is $^{-}24$

B) -3 · 2 · 2 is 24 C) -3 · 2 · -4 is 24 D) -3 · -4 · -4 is 24

Answer: C

Value | Value | Expression of x | of y |
$$\frac{-2x + y}{5}$$
 | $\frac{-2 \cdot 6 + 7 \text{ is } -5}{5}$ | A) $-2 \cdot 4 + 5 \text{ is } -3$ | B) $-2 \cdot 4 + 4 \text{ is } -4$ | C) $-2 \cdot 5 + 4 \text{ is } -6$ | D) $-2 \cdot 5 + 5 \text{ is } -5$

Answer: C

Rewrite the given expression without exponents.

16) t⁴

A) $t \cdot t \cdot t \cdot t$

C) t + 4

D) t + t + t + t

17)
$$g^6$$

A)
$$g \cdot g \cdot g \cdot g \cdot g \cdot g$$

C)
$$g + g + g + g + g + g$$

Answer: A

B)
$$g + 6$$

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

18) w^5z^3

A)
$$w + w + w + w + z + z + z$$

C)
$$w \cdot w \cdot w \cdot z \cdot z \cdot z \cdot z \cdot z$$

Answer: B

B)
$$w \cdot w \cdot w \cdot w \cdot z \cdot z \cdot z$$

D)
$$w + w + w + z + z + z + z + z$$

19) x^2y^4

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

C)
$$^{-}1 \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y$$

Answer: D

B)
$$^{-}1 \cdot x + x + x + x + y + y$$

D)
$$^{-}1 \cdot x \cdot x \cdot y \cdot y \cdot y \cdot y$$

A)
$$6 \cdot r + r + r + y + y$$
 B) $6 \cdot r + r + y + y + y$ C) $6 \cdot r \cdot r \cdot r \cdot y \cdot y$ D) $6 \cdot r \cdot r \cdot y \cdot y \cdot y$

Answer: C

21) $16d^3k^4$

A)
$$16 \cdot d \cdot d \cdot d \cdot d \cdot k \cdot k \cdot k$$

C)
$$16 \cdot d + d + d + k + k + k + k$$

Answer: D

B)
$$16 \cdot d + d + d + d + k + k + k$$

D)
$$16 \cdot d \cdot d \cdot d \cdot k \cdot k \cdot k \cdot k$$

22) 23h⁴m²

A)
$$23 \cdot h + h + m + m + m + m$$

C)
$$23 \cdot h \cdot h \cdot m \cdot m \cdot m \cdot m$$

Answer: D

B)
$$23 \cdot h + h + h + h + m + m$$

D) 23
$$\cdot$$
 h \cdot h \cdot h \cdot h \cdot m \cdot m

23) $-30f^3g^5$

A)
$$\bar{}30 \cdot f \cdot f \cdot f \cdot f \cdot f \cdot g \cdot g \cdot g$$

C)
$$\bar{}30 \cdot f \cdot f \cdot f \cdot g \cdot g \cdot g \cdot g \cdot g \cdot g$$

Answer: C

B)
$$-30 \cdot f + f + f + g + g + g + g + g$$

D)
$$^{-}30 \cdot f + f + f + f + f + g + g + g$$

24) $f^3g^4h^2$

A)
$$^{-}1 \cdot f \cdot f \cdot g \cdot g \cdot g \cdot g \cdot g \cdot h \cdot h$$

C)
$$^{-1} \cdot f + f + f + f + g + g + h + h + h$$

Answer: A

B)
$$^{-}1 \cdot f \cdot f \cdot f \cdot f \cdot g \cdot g \cdot h \cdot h \cdot h$$

D)
$$1 \cdot f + f + f + g + g + g + g + h + h$$

25) $x^2y^3z^2$

A)
$$x \cdot x \cdot y \cdot y \cdot y \cdot z \cdot z$$

C)
$$x \cdot x \cdot x \cdot y \cdot y \cdot z \cdot z$$

B)
$$x + x + x + y + y + y + z + z$$

D)
$$x + x + y + y + y + z + z$$

Evaluate the given expression.

26) x^3 when x is -3.

A) ⁻6

B) 9

C) -9

D) -27

Answer: D

27) cx^3 when c is 1 and x is $^{-1}$.

A) 1

B) -3

C) -1

D) 0

Answer: C

28) 5mn when m is 2 and n is 3.

A) -30

B) 30

C) 10

D) 24

Answer: B

29) $-5v^2t$ when v is 5 and t is -4.

A) -400

B) 400

C) 500

D) -500

Answer: C

30) v^2 tw³ when v is -4, t is 5, and w is -5.

A) -10,000

B) 10,000

C) -12,500

D) 12,500

Answer: B

31) $2x^2yz$ when x is 1, y is -3, and z is -3.

A) -9

B) 18

C) -18

D) 9

Answer: B

Evaluate the expression.

32) |xy| + |yz|; when x is -5, y is -1, and z is -3.

A) -10

B) -8

C) 8

D) 10

Answer: C

33) $|xy| + |yz| - |z^2|$; when x is 1, y is -5, and z is 4.

A) -41

B) -26

C) 9

D) 26

Answer: C

34) $\frac{z^2}{(2y+z)}$; when y is 8 and z is 16.

A) undefined

B) 0

C) $^{-}1$

D) 256

Answer: A

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

A) 3

B) -3

C) 0

D) undefined

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

36)
$$6t^2 + 9t + 5rt + 4t^2$$

- A) Like Terms: 6 and 4
 - Coefficients: 6t² and 4t²
- C) Like Terms: $6t^2$ and $4t^2$ Coefficients: 6 and 4
- Answer: C
- 37) $8x^2y + 9xy + 7xy^2 + 12x + 8xy + 8x^2y^3 + 12$
 - A) Like Terms: 9xy and 8xy Coefficients: 9 and 8
 - C) Like Terms: 8xy and 12x Coefficients: 8 and 12
 - Answer: A
- 38) 2k + 8n + 3k + 3kn + 12
 - A) Like Terms: 2k and ⁻3k Coefficients: 2 and ⁻3
 - C) Like Terms: 2 and ⁻3 Coefficients: 2k and ⁻3k
 - Answer: A

- B) Like Terms: 9t and 5rt Coefficients: 9 and 5
- D) Like Terms: 6t² and 9t Coefficients: 6 and 9
- B) Like Terms: 8x²y and ⁻7xy² Coefficients: 8 and ⁻7
- D) Like Terms: 9 and 8 Coefficients: 9xy and 8xy
- B) Like Terms: ⁻3k and ⁻3kn Coefficients: 3 and 3
- D) Like Terms: 8n and 3kn Coefficients: 8 and 12

Simplify the given expression.

Answer: A

- 39) 10t + 14t
 - A) 24t

B) -4t

C) -24t

D) $24t^2$

- 40) 3mn 3mn
 - A) 0 Answer: A

B) 6mn

C) mn

D) mn

- 41) $7y^2 + 7y^2$
 - A) ⁻14y² Answer: D

B) $14y^{4}$

C) 14y

D) $14v^{2}$

- 42) $25wy^3z 6wy^3z$
 - A) $19wy^3z$
- B) $19w^2v^6z^2$
- C) $31 \text{wy}^3 \text{z}$
- D) $^{-}19$ wy 3 z

- Answer: A
- 43) 7hk + 4hk + 3hk
 - A) ⁻14hk Answer: B

B) 14hk

- C) $^{-}14h^{2}k^{2}$
- D) $14h^2k^2$

- 44) 4ef + 4ef 27ef
 - A) $19e^2f^2$

B) 19ef

- C) -19e²f²
- D) 19ef

Answer: D

$$45)^{-}4z - 6z - 2z$$

A) 12z

B) $12z^2$

C) -12z

D) $-12z^2$

Answer: C

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

46) 4s + 12t + 12s

A)
$$16t + 12s$$

B) 16s + 12t

C)
$$^{-}16s + 12t$$

D) $16s^2 + 12t$

Answer: B

47) 13 + 5t + 6

B)
$$5t + 19$$

C) 5t + 78

D) $5t^2 + 19$

Answer: B

48) $15xy^2 + 8xy + 10xy^2$

A)
$$25xy^2 + 8xy$$

B) $23xy^2 + 10xy$

C)
$$25x^2y^4 + 8xy$$

D) $25x^2y + 8xy$

Answer: A

49) $^{-9}y^2z + 3xy^2 - 15y^2z + 9$

A)
$$3xy^2 - 24y^2z + 9$$

B)
$$3xy^2 + 24y^2z + 9$$

A)
$$3xy^2 - 24y^2z + 9$$
 B) $3xy^2 + 24y^2z + 9$ C) $-3xy^2 + 24y^2z + 9$

D)
$$-3xy^2 - 24y^2z + 9$$

Answer: A

 $50) 8m^2 + 13m - 12m^2 + 4m$

A)
$$4m^2 + 17m$$

B)
$$^{-}4$$
m 2 – 17m

C)
$$4m^2 - 17m$$

D)
$$^{-4}$$
m² + 17m

Answer: D

 $51)^{-9}y^3 + 2y - 13y^2 + 2$

A)
$$22y^2 - 2y + 2$$

C) cannot be simplified

B) $-22y^3 + 2y + 2$

D)
$$-22y^2 + 2y + 2$$

Answer: C

52) -6b + 4a - 5c - 2b + 2a

C) 6a - 8b - 5c

B) 2a - 8b - 5c

D) cannot be simplified

Simplify by using the associative property of multiplication.

A) ⁻40t

Answer: C

B) 13t

C) -13t

D) 40t

Answer: D

54) $-8(5z^3)$

A) $^{-}13z^{3}$

B) $40z^{3}$

C) $-40z^3$

D) $13z^{3}$

Answer: C

55) $3(-8p^2)$ B) $11p^{2}$ D) $^{-}11p^{2}$ C) $24p^2$ A) $-24p^2$ Answer: A 56) ⁻8(⁻10fg²) B) -80 fg^2 C) 80fg^2 D) $80f^2g^4$ A) $-80f^2g^4$ Answer: C 57) 10(10fg²h) B) $^{-}100f^{2}g^{4}h^{2}$ D) $100f^2g^4h^2$ A) $^{-}100 \text{fg}^{2}\text{h}$ C) $100 \text{fg}^2 \text{h}$ Answer: C 58) ⁻7(⁻d) A) -7d B) 7d C) 8d D) -8d Answer: B Use the distributive property to simplify this expression. 59) 5(t + 5)B) 5t + 25A) 5t - 5C) 5t + 5D) 5t - 25Answer: B 60) 3(z - 9)A) 3z + 27B) 3z - 27C) 3z + 9D) 3z - 9Answer: B $61)^{-}4(4k-2)$ A) 16k + 8B) $^{-}16k + 8$ C) 16k - 8 D) $^{-}16k - 8$ Answer: B 62) $^{-}3(d + 4)$ A) -3d + 4B) -3d - 12C) -3d + 12D) -3d - 4Answer: B Simplify the given expression. $63)^{-}5(y + 9) + 10y$ A) 5y + 45B) $^{-}5y + 45$ C) $^{-}5y - 45$ D) 5y - 45 Answer: D 64) 7(w-6) + 7A) 7w + 35B) 7w - 49C) 7w + 49D) 7w - 35Answer: D 65) 6 + 8(2t + 8)A) 6t + 14B) 16t + 70C) 8t + 14D) 8t + 70

66)
$$2 + 4(5w + 3) - w$$

A) 21w - 14

B) 19w + 5

C) 19w + 14

D) 21w + 14

Answer: C

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

A) $^{-}14w - 20$

B) $^{-}14w + 20$

C) 14w - 20

D) 14w + 20

Answer: B

68) $^{-}$ 2 + 3($^{-}$ 2w + 10) + 4(6w - 1)

A) 18w - 24

B) 18w + 24

C) -18w - 24

D) $^{-}18w + 24$

Answer: B

69) - 2(-2z) - 6 + 6(2z + 7)

A) 4z + 36

B) 16z - 36

C) 16z + 1

D) 16z + 36

Answer: D

Answer: C

70) $^{-}4(^{-}3n) + 6(n-1) + 2(^{-}3n) + 6 + n$

A) 12n + 1

B) 12n

C) 13n

D) -13n

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

71) y + 3 = 13

A) 10

B) ⁻16

C) 16

D) ⁻10

Answer: A

72) y + 8 = 14

A) 6

B) ⁻6

C) -22

D) 22

Answer: C

73) z + 11 = 0

A) 0

B) ⁻11

C) 11

D) 22

Answer: B

Solve the given equation.

74) w + 9 = 30

A) w = 21

B) w = 39

C) w = -39

D) w = -21

Answer: A

75) 5 = e - 10

A) e = 15

B) e = -5

C) e = 5

D) e = -15

Answer: A

76) $^{-}13 = z + 2$ A) $z = ^{-}11$

B) z = 15

C) z = 11

D) z = -15

Answer: D

77) $^{-}$ 5 + h = 11

A) h = 16

B) h = -6

C) h = -16

D) h = 6

78)
$$y - 13 = 0$$

A)
$$y = 26$$

B)
$$y = 0$$

C)
$$y = 13$$

D)
$$y = -13$$

Answer: C

79) m –
$$7 = -28$$

A)
$$m = -21$$

B)
$$m = 21$$

C)
$$m = 35$$

D)
$$m = -35$$

Answer: A

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

80) w - 14 = 9

Solution is 23

A) Balances

B) Does not balance

Answer: A

81) 8 + s = 7

Solution is 15

A) Does not balance

B) Balances

Answer: A

82) $^{-}3 = ^{-}12 + w$

Solution is 9

A) Balances

B) Does not balance

Answer: A

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

83)
$$p - 12 = -3 + 6$$

A)
$$p = 15$$

B)
$$p = 21$$

C)
$$p = 15$$

D)
$$p = -21$$

Answer: A

84)
$$7 + n = -2 - 14$$

A)
$$n = 23$$

B)
$$n = -23$$

C)
$$n = -9$$

D)
$$n = 9$$

Answer: B

85)
$$14r - 13r = 1 + 14$$

A)
$$r = 15$$

B)
$$r = -15$$

C)
$$r = 13$$

D)
$$r = -13$$

Answer: C

86)
$$^{-}6w - 15 + 7w = ^{-}7 + 6$$

A)
$$w = 14$$

B)
$$w = 14$$

C)
$$w = 28$$

D)
$$w = -28$$

Answer: B

87)
$$^{-}6 + 6 = 13 + r$$

A)
$$r = 13$$

B)
$$r = -26$$

C)
$$r = 13$$

D)
$$r = 26$$

Answer: A

88)
$$^{-}4k + 5k = 24 - 3 + 2$$

A)
$$k = -29$$

B)
$$k = 23$$

C)
$$k = -23$$

D)
$$k = 29$$

89)
$$^{-}8 - 4 + 14 = 16y - 15 - 15y + 2$$

A)
$$y = -15$$

B)
$$y = 15$$

C)
$$y = -1$$

D)
$$y = 11$$

Answer: B

90)
$$^{-}2 - 3 + 10 = 12m - 11 - 11m + 4$$

A)
$$m = -12$$

B)
$$m = 12$$

C)
$$m = 13$$

D)
$$m = 1$$

Answer: B

91)
$$^{-}22 - 3 - 2 + 15 = ^{-}10 - 4n + 7 + 5n$$

A)
$$n = -29$$

B)
$$n = -15$$

C)
$$n = -9$$

D)
$$n = 9$$

Answer: C

92)
$$^{-7}$$
x + 3x + 5 + 5x = $|1 - 7| - |^{-2}$ + 1

A)
$$x = 2$$

B)
$$x = 12$$

C)
$$x = 0$$

D)
$$x = 5$$

Answer: C

Solve the problem.

93) The BBQ committee always orders one pound of ribs for each person who signs up for the Homecoming BBQ, plus 10 extra pounds of ribs. The committee ordered 115 pounds of ribs this year. Solving the equation n + 10 = 115 will give the number of people who signed up for the BBQ. Solve the equation.

A)
$$n = 10$$
 people

B)
$$n = 105$$
 people

C)
$$n = 115$$
 people

D)
$$n = 125$$
 people

Answer: B

94) Alex always takes \$5 more than he anticipates needing on a date. Alex takes \$50 on his date with Judith. Solving the equation d + 5 = 50 will give you the amount of money Alex anticipates needing for this date. Solve the equation.

A)
$$d = $5$$

B)
$$d = $45$$

C)
$$d = $50$$

D)
$$d = $55$$

Answer: B

Solve the given equation.

95)
$$9g = 0$$

A)
$$g = -9$$

B)
$$g = 0$$

C)
$$g = 1$$

D)
$$g = 9$$

Answer: B

96)
$$^{-}11d = 0$$

A)
$$d = -11$$

$$d = -11$$
 B) $d = 1$

C)
$$d = 11$$

D)
$$d = 0$$

Answer: D

97)
$$9y = 9$$

$$A) y = 0$$

$$y = 0$$
 B) $y = -1$

C)
$$y = 9$$

D)
$$y = 1$$

Answer: D

98)
$$^{-}5k = 5$$

A)
$$k = 0$$

B)
$$k = 1$$

C)
$$k = 5$$

D)
$$k = 1$$

Answer: B

99)
$$^{-}6m = 18$$

A)
$$m = -12$$

B)
$$m = 3$$

C)
$$m = -3$$

D)
$$m = 0$$

Answer: C

100)
$$16z = -32$$

A)
$$z = -32$$

B)
$$z = -2$$

C)
$$z = 32$$

D)
$$z = 2$$

Answer: B

A)
$$t = 4$$

B)
$$t = -22$$

C)
$$t = 22$$

D)
$$t = -4$$

Answer: A

102)
$$48 = 6$$

A)
$$w = 48$$

B)
$$w = 8$$

C)
$$w = -48$$

D)
$$w = -8$$

Answer: D

Simplify where possible. Then solve the equation.

103)
$$2t = -3 + 19$$

A)
$$t = 11$$

B)
$$t = -8$$

C)
$$t = 8$$

D)
$$t = 11$$

Answer: C

$$104)^{-}4 = 5y - y$$

A)
$$y = 1$$

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

C)
$$y = -1$$

D)
$$y = -6$$

Answer: C

105)
$$9 - 5 = 2r$$

A)
$$r = -2$$

B)
$$r = -3$$

C)
$$r = 2$$

$$D) r = 0$$

Answer: C

106)
$$x - 5x = 24$$

A)
$$x = 8$$

Answer: B

B)
$$x = -6$$

C)
$$x = -8$$

D)
$$x = 6$$

107) 12 - 12 = 6f - 5f

A)
$$f = 1$$

B)
$$f = 0$$

C)
$$f = -1$$

D)
$$f = 12$$

Answer: B

108) 5q + 2q = 15 - 5 + 18

A)
$$q = -4$$

B)
$$q = -7$$

C)
$$q = 7$$

D)
$$q = 4$$

Answer: D

109)
$$^{-}18d = 0$$

A)
$$d = 1$$

B)
$$d = 0$$

C)
$$d = 18$$

D)
$$d = 1$$

Answer: B

110)
$$^{-}29w + 8w = 6 - 69$$

A)
$$w = -21$$

B)
$$w = 21$$

C)
$$w = -3$$

D)
$$w = 3$$

Answer: D

111)
$$80 - 35 = 5x - 10x$$

A)
$$x = 9$$

B)
$$x = 45$$

C)
$$x = 45$$

D)
$$x = -9$$

Answer: D

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

$$112) \ 4(4w) = 48$$

A)
$$w = -3$$

B)
$$w = 3$$

C)
$$w = 16$$

D)
$$w = -16$$

Answer: A

113)
$$^{-}3(^{-}7x) = ^{-}21$$

A)
$$x = -3$$

B)
$$x = -7$$

C)
$$x = 7$$

D)
$$x = -1$$

Answer: D

114)
$$96 = -2(-4x)$$

A)
$$x = 88$$

B)
$$x = 12$$

C)
$$x = 768$$

D)
$$x = -12$$

Answer: B

115)
$$12 = 4(-3w)$$

A)
$$w = 1$$

B)
$$w = 1$$

C)
$$w = -12$$

D)
$$w = 12$$

Answer: B

Solve the equation.

116)
$$\bar{x} = 5$$

A)
$$x = 1$$

B)
$$x = 5$$

C)
$$x = 0$$

D)
$$x = -5$$

Answer: D

117)
$$x = 41$$

A)
$$x = 0$$

B)
$$x = 41$$

C)
$$x = 1$$

D)
$$x = -41$$

Answer: B

118)
$$9 = \bar{z}$$

A)
$$z = 0$$

Answer: B

B)
$$z = -9$$

C)
$$z = 1$$

D)
$$z = 9$$

Solve the problem.

119) The perimeter of a square is 4 times the length of one side, s. If the perimeter is 36 feet, solving the equation 4s = 36 will give the length of one side. Solve the equation.

A)
$$s = 10$$
 feet

B)
$$s = 9$$
 feet

C)
$$s = 36$$
 feet

D)
$$s = 40$$
 feet

Answer: B

120) The perimeter of an octagon with sides of equal length is 8 times the length of one side, s. If the perimeter is 104 meters, solving the equation 8s = 104 will give the length of one side. Solve the equation.

A)
$$s = 13$$
 meters

B)
$$s = 52$$
 meters

C)
$$s = 26$$
 meters

D)
$$s = 104$$
 meters

Answer: A

Solve the equation.

121)
$$8 - 58 = -3(-3m) - 8(2m) + 2m$$

A)
$$m = 10$$

B)
$$m = 5$$

C)
$$m = 10$$

D)
$$m = 0$$

Answer: C

122)
$${}^{-}8(3x) + 2(13x) = |38 - 38| + |{}^{-}6 + 28|$$

A)
$$x = -14$$

B)
$$x = 11$$

C)
$$x = 14$$

D)
$$x = -11$$

123)
$$5(8w) - 6w - 10(4w) = |-27 - 27| - 36$$

A)
$$w = -3$$

B)
$$w = 1$$

C)
$$w = -4$$

D)
$$w = 3$$

Answer: A

124)
$$3t + 5 = 8$$

A)
$$t = 3$$

B)
$$t = 1$$

C)
$$t = 0$$

D)
$$t = -1$$

Answer: B

125)
$$19 = 5y + 24$$

A)
$$y = 5$$

B)
$$y = 1$$

C)
$$y = -1$$

D)
$$y = 0$$

Answer: C

126)
$$17r + 7 = 7$$

A)
$$r = 1$$

B)
$$r = 2$$

C)
$$r = 0$$

D)
$$r = -1$$

Answer: C

127)
$$10j + 7 = 8j + 11$$

A)
$$j = \overline{4}$$

B)
$$j = -2$$

C)
$$j = 4$$

D)
$$j = 2$$

Answer: D

128)
$$^{-}14 + 2y = 7y + 1$$

A)
$$y = -2$$

B)
$$y = -3$$

C)
$$y = 2$$

D)
$$y = 3$$

Answer: B

129)
$$7k + 21 = 0$$

A)
$$k = -2$$

B)
$$k = 2$$

C)
$$k = -3$$

D)
$$k = 3$$

Answer: C

130)
$$g - 21 = 56 - 10g$$

A)
$$g = 12$$

Answer: C

B)
$$g = -7$$

C)
$$g = 7$$

D)
$$g = 12$$

Use the distributive property to help solve the given equation.

131) 2(z - 10) = 6

A)
$$z = -13$$

B)
$$z = 10$$

C)
$$z = 13$$

D)
$$z = -10$$

Answer: C

132)
$$^{-}10 = 5(y + 9)$$

A)
$$y = 9$$

B)
$$y = -9$$

C)
$$y = -11$$

D)
$$y = 11$$

Answer: C

133)
$$^{-}7(m-2)=0$$

A)
$$m = 2$$

B)
$$m = 0$$

C)
$$m = 3$$

D)
$$m = -2$$

Answer: A

134)
$$2(w - 12) = ^{-}6$$

A)
$$w = -12$$

B)
$$w = -9$$

C)
$$w = 12$$

D)
$$w = 9$$

Answer: D

Solve the equation.

135)
$$3(x-4) + 7 = ^{-}3 + x - 24$$

A)
$$x = -11$$

B)
$$x = 6$$

C)
$$x = -6$$

D)
$$x = 11$$

Answer: A

136)
$$^{-}8 + 10y + 24 = 4(2y - 8) - 10$$

A)
$$y = 29$$

B)
$$y = -4$$

C)
$$y = -29$$

D)
$$y = 4$$

Answer: C

137)
$$-3(2p + 5) - 10 = -2(p + 6) + 3$$

A)
$$p = 4$$

B)
$$p = -6$$

C)
$$p = 6$$

D)
$$p = -4$$

Answer: D

138) 13x - 16x + 18x = 60 - 26x + 11x

A)
$$x = -3$$

B)
$$x = 3$$

C)
$$x = 2$$

D)
$$x = -2$$

Answer: C

139) 10x + 3 = 12x - 11

A)
$$x = 2$$

B)
$$x = 14$$

C)
$$x = 4$$

D)
$$x = 7$$

Answer: D

140) 7x - 6x = -5 - 7x

A)
$$x = -\frac{5}{8}$$

B)
$$x = \frac{5}{8}$$

C)
$$x = \frac{8}{5}$$

D)
$$x = -\frac{8}{5}$$

Answer: A

Provide an appropriate response.

- 141) Identify the variable and the constant in this expression: $8x x^2 + 2x^3 + 11$
 - A) variable x; constant 11

B) variable x; constant 8x

C) variable 8x; constant $2x^3$

D) variable 11; constant x

Answer: A

142) Use the variable x to express the following property: adding zero to a number leaves the number unchanged.

A)
$$x + 0 = x$$

B)
$$\frac{x}{0}$$
 is undefined. C) $x \cdot 1 = x$

C)
$$x \cdot 1 = x$$

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

Answer: A

- 143) Use the variable x to express the following property: Any number divided by zero is undefined.
 - A) $\frac{x}{0}$ is undefined. B) $\frac{0}{x} = 0$

- C) x + 0 = x
- D) $x \cdot 1 = x$

Answer: A

- 144) In this expression, which two terms are like terms? $2xy 10x + 5 + 16xy + 2x^2y + 2xy^2 + 5y$
 - A) 5 and 5x
- B) 2xy and 16xy
- C) 2xy and $2xy^2$
- D) $2x^2y$ and $2xy^2$

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145) Which one of the following is an expression?

$$9(x + 9)$$
 9(x

$$9(x + 9) = 9x + 81$$

$$23 + 0 = 23$$

A)
$$9(x + 9) = 9x + 81$$

B)
$$10 \cdot 1 = 10$$

 $10 \cdot 1 = 10$

C)
$$23 + 0 = 23$$

D) 9(x + 9)

Answer: D

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

$$20x + 7 + 3 = 2(x + 5) - 7$$

$$20x + 10 = 2(x + 5) - 7$$

B) Yes

Answer: A

147) What property does this process illustrate?

$$4 - 3(x + 8) = 6 - 2x$$

$$4 - 3x - 24 = 6 - 2x$$

A) Division Property of Equality

C) Distributive Property

B) Combining Like Terms

D) Addition Property of Equality

Answer: C

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

$$\bar{x} = 15$$

A) Divide both sides by ⁻1.

B) Add 1 to both sides.

C) Add ⁻15 to both sides.

D) Divide both sides by 15.

Answer: A

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

$$^{-}18x + 7 = 20x - 12$$

A) Combine 20x and -12.

B) Divide both sides by 7.

C) Combine 18x and 7.

D) Add ⁻7 to both sides.

Answer: D

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

$$19 + 3(x + 6) = 15x - 16$$

A) Use the distributive property.

B) Combine 15x and -16.

C) Divide both sides by 19.

D) Add 19 and 3.