

Name _____

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

1) Perform the indicated operations.

$$-2 - \sqrt{6 - (-10)} + 4$$

1) _____

A) The expression is undefined.

B) 6

C) -2

D) -10

Answer: C

2) Multiply the fractions.

$$\frac{15}{4} \times \frac{35}{9} \times \frac{6}{35}$$

2) _____

A) $\frac{5}{2}$ B) $\frac{5}{3}$ C) $\frac{21}{10}$ D) $\frac{3}{7}$

Answer: A

3) Subtract the numbers.

$$18 - 20$$

3) _____

A) 38

B) 2

C) -2

D) -360

Answer: C

4) Write the expression in expanded form using the definition of an exponent.

$$2m^3n$$

4) _____

A) $2 \cdot m \cdot m \cdot m \cdot n$ B) $2 \cdot m \cdot n \cdot 3$ C) $2 \cdot 2 \cdot 2 \cdot m \cdot m \cdot m \cdot n$ D) $2 \cdot m \cdot m \cdot m \cdot n \cdot n \cdot n$

Answer: A

5) To which set of numbers does -4 not belong?

5) _____

A) Natural numbers

B) Integers

C) Rational numbers

D) Real numbers

Answer: A

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

6) A person's debt-to-income ratio is the sum of all monthly installment payments (credit cards, loans, etc.) divided by monthly take-home pay. This number is often considered when one is applying for a loan. Each month, Monica makes credit card payments of \$50 and \$28, a student loan payment of \$165, and a payment for furniture of \$63. Her monthly take-home pay is \$1,700. 6) _____

a. Determine Monica's debt-to-income ratio.

b. To obtain a car loan, Monica's debt-to-income ratio must be less than 0.20.

Does she meet this criteria?

Answer: a. 0.18

b. Yes, $0.18 < 0.20$

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

7) Use the distributive property to clear the parentheses. 7) _____

$$-\frac{1}{3} \left(-12z + \frac{6}{5} \right)$$

A) $-4z + \frac{2}{5}$

B) $4z + \frac{6}{5}$

C) $4z + \frac{2}{5}$

D) $4z - \frac{2}{5}$

Answer: D

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

8) Determine if the statement is true or false. 8) _____

$$-|-9| = |9|$$

Answer: True False

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

9) Subtract the numbers. 9) _____

$$-12.8 - 10.5$$

A) -2.3

B) -23.3

C) 23.3

D) 2.3

Answer: B

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

10) Use the associative property of multiplication to rewrite the expression. 10) _____

$$7(3t)$$

Answer: $(7 \cdot 3)t$

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

11) Subtract the numbers. 11) _____

$$-16 - 29$$

A) 13

B) 464

C) -45

D) 45

Answer: C

- 12) Which property is illustrated by the following statement? 12) _____
 $28 + 0 = 28$
A) Commutative property of addition
B) Associative property of multiplication
C) Inverse property of addition
D) Identity property of addition

Answer: D

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

- 13) Simplify the fraction to lowest terms. 13) _____
 $\frac{72}{40}$

Answer: $\frac{9}{5}$

- 14) Find the opposite of -15.4. 14) _____
Answer: 15.4

- 15) Valerie trades stocks each day and analyzes her results at the end of the week. 15) _____
The first day of the week she had a profit of \$700. The next two days she had a loss of \$350 each day and the last two days she had a loss of \$150 each day.
Write an expression that describes Valerie's profit or loss for the week. Interpret the result.

Answer: $700 + 2(-350) + 2(-150) = -300$; Valerie lost \$300 for the week.

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

- 16) Which property is illustrated by the following statement? 16) _____
 $(-36) + 7 = 7 + (-36)$
A) Distributive property
B) Commutative property of multiplication
C) Commutative property of addition
D) Associative property of multiplication

Answer: C

- 17) Translate the algebraic expression into an English phrase: 17) _____
 $24 - n^2$
A) The difference of the square of n and 24
B) The square of the difference of 24 and n
C) The quotient of 24 and the square of n
D) The difference of 24 and the square of n

Answer: D

18) Show how multiplication can be used to check the division problem. 18) _____

$$-18 \div (-6) = 3$$

- A) $-3 \times (-6) = 18$ B) $3 \times (-6) = -18$ C) $3 \times 6 = 18$ D) $-3 \times 6 = -18$

Answer: B

19) Write the expression in expanded form using the definition of an exponent. 19) _____

$$(3y)^4$$

- A) $3y \cdot 3y \cdot 3y \cdot 3y$ B) $3y \cdot 4$
C) $3 \cdot 3 \cdot 3 \cdot 3 \cdot y$ D) $3 \cdot y \cdot y \cdot y \cdot y$

Answer: A

20) Subtract the mixed numbers. 20) _____

$$3\frac{3}{4} - 1\frac{1}{2}$$

- A) $1\frac{1}{2}$ B) $2\frac{1}{3}$ C) $3\frac{1}{4}$ D) $2\frac{1}{4}$

Answer: D

21) Multiply the real numbers. 21) _____

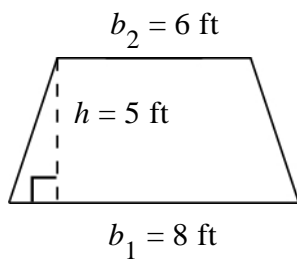
$$-7 \cdot (-13)$$

- A) 91 B) -91 C) -87 D) -20

Answer: A

22) The area of a trapezoid is given by $A = \frac{1}{2}(b_1 + b_2)h$, where b_1 and b_2 are the lengths of 22) _____

the two parallel sides and h is the height. A window is in the shape of a trapezoid. Find the area of the trapezoid with dimensions shown in the figure.



- A) 50 ft^2 B) 55 ft^2 C) 7 ft^2 D) 35 ft^2

Answer: D

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

23) Perform the operations. 23) _____

$$-(2 - 10)^2 \cdot 3 - 10 \cdot 2$$

Answer: -212

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

24) Which fraction is not in lowest terms?

24) _____

A) $\frac{14}{35}$

B) $\frac{23}{7}$

C) $\frac{7}{23}$

D) $\frac{3}{49}$

Answer: A

25) Which of the following is an irrational number?

25) _____

A) $4.5\overline{71}$

B) $\sqrt{25}$

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

D) -7.829

Answer: C

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

26) Perform the indicated operations.

26) _____

$$2 + \left(-\frac{1}{2}\right) + \frac{1}{4} - 4$$

Answer: $-\frac{9}{4}$

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

27) Translate the English phrase into an algebraic expression, then evaluate the expression.

27) _____

Eight less than negative nineteen

A) $-19 - (-8) = -11$

B) $8 - (-19) = 27$

C) $-8 - (-19) = 11$

D) $-19 - 8 = -27$

Answer: D

28) Perform the operations.

28) _____

$$\left(-\frac{21}{8}\right) \cdot \left(-\frac{4}{9}\right) \cdot \left(1\frac{5}{14}\right)$$

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

B) $-\frac{5}{12}$

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

D) $\frac{5}{12}$

Answer: A

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

29) Write the number as a product of prime factors.

29) _____

72

Answer: $2 \times 2 \times 2 \times 3 \times 3$

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

30) Write a proper or improper fraction associated with the shaded region of the figure. 30) _____



A) $\frac{6}{8}$

B) $\frac{8}{2}$

C) $\frac{2}{8}$

D) $\frac{8}{6}$

Answer: A

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

31) Maureen had \$831 in her savings account at the beginning of the month. She withdrew \$40 on the third, deposited a \$178 paycheck on the sixth, and withdrew \$20 on the tenth. Write a mathematical expression that describes her account balance, then simplify the result. 31) _____

Answer: $831 + (-40) + 178 + (-20) = 949$

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

32) List the coefficients in the expression. 32) _____

$$15x^3 - 9x^2 + 7$$

A) $15x^3, -9x^2, 7$

B) 15, 9, 7

C) 15, -9, 7

D) +, -, +

Answer: C

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

33) Simplify by clearing parentheses and combining like terms. 33) _____

$$-\frac{11}{3}(t - 4) + 4\left[-\frac{7}{3}t + 5\right] - \left(\frac{1}{2} - \frac{1}{3}t\right)$$

Answer: $-\frac{38}{3}t + \frac{205}{6}$

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

34) Simplify. 34) _____

$$\left|-\frac{3}{4}\right|$$

A) $\frac{4}{3}$

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

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

D) $\frac{3}{4}$

Answer: D

35) List the terms in the expression.

$$25x^3 - 14x^2 + 7$$

35) _____

- A) $25x^3, -14x^2, 7$ B) $25x^3, 14x^2, 7$ C) $+, -, +$ D) $25, -14, 7$

Answer: A

36) Use the associative property of multiplication to rewrite the expression, then simplify.

36) _____

- A) $\left(\frac{18}{5}y\right)\frac{5}{9}$ B) $2 + \frac{5}{9}y$ C) $2y$ D) $\frac{25}{162}y$

Answer: C

37) Write the product using an exponent.

$$27 \cdot 27 \cdot 27 \cdot 27 \cdot 27 \cdot 27$$

37) _____

- A) 6^6 B) 6^{27} C) $6 \cdot 27$ D) 27^6

Answer: D

38) Simplify the exponential expression.

$$(-9)^2$$

38) _____

- A) 18 B) -81 C) 81 D) -18

Answer: C

39) Which statement is false?

39) _____

- A) $|-12| \geq |12|$ B) $|-12| \leq |12|$ C) $|-12| = |12|$ D) $|-12| < |12|$

Answer: D

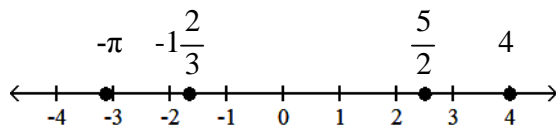
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

40) Plot the numbers on a real number line.

40) _____

$$\frac{5}{2}, 4, -\pi, -1\frac{2}{3}$$

Answer:



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

41) Translate the phrase into an algebraic expression. Then evaluate the expression for $z = 9$.

41) _____

The absolute value of the difference of z and 15

- A) $|z - 15|$; 6 B) $|z| - 15$; -6 C) $|z| - 15$; 6 D) $|z - 15|$; -6

Answer: A

42) Translate the English phrase into an algebraic expression, then evaluate the expression. 42) _____

Five subtracted from twenty-two fifths

A) $\frac{5 - 22}{5} = -\frac{17}{5}$ B) $\frac{22}{5} - 5 = -\frac{3}{5}$ C) $5 - \frac{22}{5} = \frac{3}{5}$ D) $\frac{22 - 5}{5} = \frac{17}{5}$

Answer: B

43) Divide the real numbers. 43) _____

$$\frac{-10}{2}$$

A) 5 B) -5 C) -4 D) -8

Answer: B

44) Simplify the square root. 44) _____

$$\sqrt{16}$$

A) 5 B) 8 C) 6 D) 4

Answer: D

45) Use the distributive property to clear the parentheses. 45) _____

$$5(8x + 10)$$

A) $13x + 15$ B) $40x + 10$ C) $40x + 50$ D) $(8x + 10)5$

Answer: C

46) John began working out and found that he lost approximately $\frac{3}{7}$ in. off his waistline 46) _____

every 2 months. How many inches would he lose around his waist in 8 months?

A) $\frac{3}{7}$ B) $\frac{12}{7}$ C) $\frac{6}{7}$ D) $\frac{24}{7}$

Answer: B

47) Divide the real numbers. 47) _____

$$-40 \div 8$$

A) -32 B) -4 C) -5 D) 5

Answer: C

48) Find the opposite of 11.4. 48) _____

A) -11.4 B) $\frac{1}{11.4}$ C) $-(-11.4)$ D) $-\frac{1}{11.4}$

Answer: A

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

49) Perform the indicated operations.

49) _____

$$\frac{5}{3} + \frac{2}{9} - \frac{1}{6} - \frac{1}{10}$$

Answer: $\frac{73}{45}$

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

50) Perform the indicated operations.

50) _____

$$13 + 27 - 2 - (-6) + 30$$

A) 66

B) 62

C) 74

D) 78

Answer: C

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

51) For 5 weeks, Jim pays \$2 a week for lottery tickets. Jim has one winning ticket for \$5. Write an expression that describes his net gain or loss. How much money has Jim won or lost?

51) _____

Answer: $5(-2) + 5 = -5$; loss of \$5

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

52) Evaluate the expression for the given substitution.

52) _____

$$8 + 5y; \text{ when } y = -2.3$$

A) -29.9

B) -2

C) -3.5

D) 19.5

Answer: C

53) Multiply the numbers.

53) _____

$$5 \times 6\frac{2}{3}$$

A) $30\frac{2}{3}$

B) $10\frac{2}{3}$

C) $33\frac{1}{3}$

D) $26\frac{2}{3}$

Answer: C

54) Which property is illustrated by the following statement?

54) _____

$$(7 + 42) + (-14) = 7 + (42 + (-14))$$

A) Distributive property

B) Associative property of addition

C) Commutative property of multiplication

D) Commutative property of addition

Answer: B

55) Which fraction is a proper fraction?

55) _____

A) $\frac{5}{2}$

B) $\frac{4}{16}$

C) $-2\frac{1}{3}$

D) $\frac{20}{3}$

Answer: B

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

56) Multiply the fractions.

56) _____

$$\frac{13}{3} \times \frac{5}{13}$$

Answer: $\frac{5}{3}$

57) Add the integers.

57) _____

$$-10 + (-5) + 12$$

Answer: -3

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

58) Perform the operations.

58) _____

$$\frac{-9 + 6}{4 \cdot (-3) + 12}$$

A) 0

B) $-\frac{1}{4}$

C) undefined

D) $-\frac{1}{8}$

Answer: C

59) Divide the real numbers.

59) _____

$$\frac{0}{79}$$

A) 0

B) 79

C) 1

D) undefined

Answer: A

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

60) Evaluate the expression for the given substitution.

60) _____

$$9 - 12t; \text{ when } t = \frac{3}{4}$$

Answer: -0

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

61) Use the commutative property of multiplication to rewrite the expression. 61) _____

$$z(-10)$$

A) $(-z)(10)$

B) $10z$

C) $-10z$

D) $(z)(-10)$

Answer: C

62) Which of the following expressions is a variable? 62) _____

A) $|18.9|$

B) 6.7

C) x

D) -7

Answer: C

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

63) Write the product using exponents. 63) _____

$$12 \cdot a \cdot a \cdot a \cdot a \cdot b \cdot b \cdot b \cdot b$$

Answer: $12a^3b^4$

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

64) Divide the fractions. 64) _____

$$\frac{3}{35} \div \frac{2}{21}$$

A) $\frac{10}{9}$

B) $\frac{9}{5}$

C) $\frac{6}{735}$

D) $\frac{9}{10}$

Answer: D

65) Simplify the exponential expression. 65) _____

$$(-0.5)^2$$

A) -1

B) -0.25

C) 1

D) 0.25

Answer: D

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

66) Aly is trying to limit her total calorie intake for breakfast and lunch to 890 66) _____

calories. The number of calories that she can consume for lunch is given by the expression $890 - b$, where b is the number of calories consumed for breakfast. Determine the number of calories allowed for lunch assuming that she had the following number of calories at breakfast:

- a.** 445 calories **b.** 515 calories **c.** 355 calories

Answer: **a.** 445 calories; **b.** 375 calories; **c.** 535 calories

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

- 67) Which of the following is an algebraic expression? 67) _____
A) y B) $-13z + 9$
C) 43 D) all of the above

Answer: D

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

- 68) Translate the phrase into a mathematical expression, then simplify the result. 68) _____
The sum of 26, -7, -20, and -16

Answer: $26 + (-7) + (-20) + (-16)$; -17

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

- 69) Which property is illustrated by the following statement? 69) _____
 $75 + (-75) = 0$
A) Commutative property of addition
B) Associative property of multiplication
C) Inverse property of addition
D) Identity property of addition

Answer: C

- 70) What is the multiplicative inverse of 56? 70) _____
A) -56 B) $\frac{1}{56}$ C) 1 D) 0

Answer: B

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

- 71) The plans for building a deck require Shelly to cut a board that's $7\frac{3}{4}$ feet long into 71) _____
3 equal pieces. How long should each piece be?

Answer: $2\frac{7}{12}$ feet

- 72) Identify the numerator of the fraction. 72) _____
 $\frac{22}{41}$

Answer: 22

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

73) Simplify.

$$-|42|$$

73) _____

A) -42

B) 42

C) $-\frac{1}{42}$

D) $\frac{1}{42}$

Answer: A

74) Perform the operations.

$$(-2)(-2)(-3)$$

74) _____

A) -14

B) 12

C) -11

D) -12

Answer: D

75) Divide the fractions.

$$\frac{11}{6} \div \frac{7}{3}$$

75) _____

A) $\frac{18}{9}$

B) $\frac{11}{14}$

C) $\frac{77}{3}$

D) $\frac{77}{18}$

Answer: B

76) Use the order of operations to simplify the expression.

$$-2 \cdot 5 - 3 \cdot 3$$

76) _____

A) 1

B) 8

C) -19

D) -12

Answer: C

77) Simplify by combining like terms.

$$\frac{2}{3}y + 5 - \frac{5}{3}y + \frac{1}{2}$$

77) _____

A) $-y + \frac{11}{2}$

B) $\frac{7}{3}y + \frac{11}{2}$

C) $\frac{9}{2}y$

D) $-y + \frac{5}{2}$

Answer: A

78) Simplify the fraction to lowest terms.

$$\frac{60}{315}$$

78) _____

A) $\frac{4}{21}$

B) $\frac{8}{42}$

C) $\frac{10}{52}$

D) $\frac{5}{24}$

Answer: A

79) Perform the indicated operations.

79) _____

$$\frac{7 - 8 + 3}{8 + (-6)}$$

A) $-\frac{2}{7}$

B) $\frac{1}{7}$

C) -1

D) 1

Answer: D

80) Which statement is false?

80) _____

A) $-7 > -8$

B) $-8 > -7$

C) $-8 < -7$

D) $8 > 7$

Answer: B

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

81) Fill in the blank to make the statement correct.

81) _____

$$-32 - 10 = -32 + \underline{\hspace{2cm}}$$

Answer: -10

82) Translate the phrase into a mathematical expression, then simplify the result.

82) _____

Eight more than the sum of -5 and -7

Answer: $[-5 + (-7)] + 8$; -4

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

83) Use the order of operations to simplify the expression.

83) _____

$$\frac{17 - 5(2 \cdot 5 - 16)}{14 - 2(5 \cdot 3 - 10)}$$

A) $\frac{17}{14}$

B) $\frac{47}{4}$

C) $\frac{49}{26}$

D) $\frac{127}{84}$

Answer: B

84) Multiply the fractions.

84) _____

$$\frac{23}{24} \times 4$$

A) $\frac{23}{6}$

B) $\frac{23}{96}$

C) $\frac{2,208}{24}$

D) $\frac{92}{96}$

Answer: A

85) Multiply the fractions.

85) _____

$$\frac{20}{3} \times \frac{18}{25}$$

A) $\frac{38}{28}$

B) $\frac{250}{57}$

C) $\frac{554}{75}$

D) $\frac{24}{5}$

Answer: D

86) A national safety organization has estimated that $\frac{1}{5}$ of all drivers on the road after midnight on weekends is legally intoxicated. If there are 290 drivers on a stretch of highway during this time period, how many would this organization estimate to be driving while intoxicated?

86) _____

A) 116

B) 53

C) 174

D) 58

Answer: D

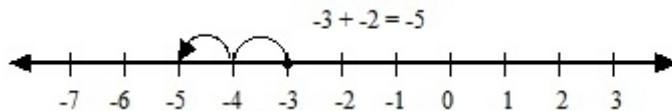
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

87) Use a number line to add the numbers.

87) _____

$$-3 + (-2)$$

Answer:



88) Use the commutative property of addition to rewrite the expression.

88) _____

$$12 + 7y$$

Answer: $7y + 12$

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

89) Simplify the expression.

89) _____

$$\left(\frac{2}{3}\right)^4$$

A) $\frac{16}{81}$

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

C) $\frac{16}{3}$

D) $\frac{8}{12}$

Answer: A

90) Simplify the fraction to lowest terms.

90) _____

$$\frac{21}{15}$$

A) $\frac{7}{5}$ or $1\frac{2}{5}$

B) $\frac{21}{15}$

C) $\frac{2}{5}$

D) $\frac{5}{7}$

Answer: A

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

- 91) Translate the English phrase into an algebraic expression, then evaluate the expression. 91) _____

The difference of -5 and -14

Answer: $-5 - (-14)$; 9

- 92) Joe Fabeets compiles all of his financial information and finds that he is in debt by \$6,000. (In other words, his net worth is -\$6,000). His brother Mel Fabeets has a positive net worth of \$7,000. Find the difference in their net worths. 92) _____

Answer: \$13,000

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

- 93) At a super bowl party, $\frac{2}{3}$ of the pizza remains after the game, to be split equally among 4 people. What share of the original pizza will each get? 93) _____

A) $\frac{8}{3}$ B) $\frac{1}{6}$ C) $\frac{1}{10}$ D) $\frac{3}{8}$

Answer: B

- 94) Translate the English phrase into an algebraic expression, then evaluate the expression. 94) _____

The number -0.3 plus the quantity 3 times -0.42

A) $(-0.3 + 3)(-0.42)$; -1.134 B) $(-0.3 + 3)(-0.42)$; -1.56
C) $-0.3 + 3(-0.42)$; -1.134 D) $-0.3 + 3(-0.42)$; -1.56

Answer: D

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

- 95) Translate the phrase into an algebraic expression. 95) _____

The product of five and the difference of eleven and t

Answer: $5(11 - t)$

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

- 96) Evaluate the expression below for $a = -5$, $b = -7$, and $c = -2$. 96) _____

$(a + b) - c$

A) -14 B) 4 C) 0 D) -10

Answer: D

- 97) Which number is a composite number? 97) _____

A) 17 B) 37 C) 3 D) 18

Answer: D

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

98) Simplify the expression.
 $(0.9)^2$

98) _____

Answer: 0.81

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

99) Which fraction is in lowest terms?

99) _____

A) $\frac{8}{20}$

B) $\frac{5}{2}$

C) $\frac{60}{40}$

D) $\frac{20}{8}$

Answer: B

100) Use the order of operations to simplify the expression.

100) _____

$$100 \div 10 \cdot 2 + (4^2 - |-4|)$$

A) 17

B) 40

C) 25

D) 32

Answer: D

101) Which of the following is an irrational number?

101) _____

A) -1.82

B) $\sqrt{11}$

C) $5.\bar{3}$

D) $\frac{17}{3}$

Answer: B

102) Evaluate the expression below for $x = -4$, $y = -3$, and $z = 49$.

102) _____

$$x + y + \sqrt{z}$$

A) 0

B) -8

C) 14

D) -14

Answer: A

103) Simplify the square root.

103) _____

$$\sqrt{169}$$

A) 11

B) $\frac{169}{2}$

C) 13

D) 14

Answer: C

104) Which number is a prime number?

104) _____

A) 18

B) 27

C) 21

D) 17

Answer: D

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

105) Show how multiplication can be used to check the division problem.

105) _____

$$\frac{54}{-9} = -6$$

Answer: $(-6) \cdot (-9) = 54$

106) Let $A = \left\{ -\frac{7}{3}, \sqrt{11}, -9, 0.\bar{4}, \sqrt{8}, 1 \right\}$. List all of the natural numbers in set A. 106) _____

Answer: 1

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

107) At the beginning of the 2002 season, $\frac{3}{5}$ of the players on one Major League Baseball team had a salary of over 1 million dollars per year. There are 25 players on a major league roster. How many were making over a million dollars? 107) _____

- A) 17 B) 15 C) 20 D) 12

Answer: B

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

108) Translate the phrase into an algebraic expression. 108) _____
The sum of 111 and x

Answer: $111 + x$

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

109) Perform the operations. 109) _____
 $3 \cdot (-5) - 3 \cdot (-8)$

- A) 9 B) 192 C) -39 D) 144

Answer: A

110) Use the distributive property to clear the parentheses. 110) _____
 $\frac{3}{2}(4 - 2z)$

- A) $6 + 3z$ B) $4 - 3z$ C) $6 - 2z$ D) $6 - 3z$

Answer: D

111) Find the least common multiple for the numbers. 111) _____
8, 18

- A) 72 B) 8 C) 48 D) 6

Answer: A

112) Add the fractions. 112) _____
 $\frac{31}{11} + \frac{29}{11}$

- A) $\frac{899}{121}$ B) $\frac{30}{11}$ C) $\frac{60}{11}$ D) $\frac{2}{11}$

Answer: C

113) Perform the indicated operations.

113) _____

$$\frac{3}{5} + \frac{21}{10} - \frac{1}{6}$$

A) $\frac{38}{15}$

B) $\frac{79}{30}$

C) $\frac{23}{9}$

D) $\frac{151}{300}$

Answer: A

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

114) Subtract the fractions.

114) _____

$$\frac{13}{20} - \frac{3}{20}$$

Answer: $\frac{1}{2}$

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

115) Simplify the fraction to lowest terms.

115) _____

$$\frac{14}{21}$$

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

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

C) $\frac{14}{21}$

D) $\frac{3}{5}$

Answer: B

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

116) Evaluate the expression for the given substitution.

116) _____

$$\frac{x}{2} + 4; \text{ when } x = \frac{8}{3}$$

Answer: $\frac{16}{3}$

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

117) Simplify.

117) _____

$$|-7.5|$$

A) 7.5

B) $-\frac{1}{7.5}$

C) $\frac{1}{7.5}$

D) -7.5

Answer: A

118) Which property is illustrated by the following statement?

118) _____

$$5 \cdot \frac{3}{8} = \frac{3}{8} \cdot 5$$

- A) Commutative property of addition
- B) Distributive property
- C) Commutative property of multiplication
- D) Associative property of multiplication

Answer: C

119) Multiply the real numbers.

119) _____

$$9 \cdot (-13)$$

- A) 117
- B) -4
- C) -117
- D) -113

Answer: C

120) Simplify $-(-41)$.

120) _____

- A) 41
- B) $\frac{1}{41}$
- C) $-\frac{1}{41}$
- D) -41

Answer: A

121) Add the numbers.

121) _____

$$10 + (-10)$$

- A) 20
- B) 0
- C) -20
- D) -100

Answer: B

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

122) Use the order of operations to simplify the expression.

122) _____

$$\frac{2}{3} \cdot \frac{1}{4} - 26$$

Answer: $-\frac{155}{6}$

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

123) Add the numbers.

123) _____

$$-\frac{2}{9} + \left(-\frac{7}{18}\right)$$

- A) $-\frac{11}{18}$
- B) 0
- C) $\frac{1}{2}$
- D) $-\frac{1}{3}$

Answer: A

124) In one 24-hour period in Toledo, Ohio, the high temperature was 29 degrees and the low temperature was -7 degrees. Find the temperature range for that day (i.e., the difference between the high and low temperatures). 124) _____

- A) -22 degrees B) 22 degrees C) -36 degrees D) 36 degrees

Answer: D

125) Add the numbers. 125) _____

$$-9 + 15$$

- A) 24 B) 6 C) -24 D) -6

Answer: B

126) Divide the real numbers. 126) _____

$$\frac{-7.83}{-2.9}$$

- A) 27 B) -27 C) -2.7 D) 2.7

Answer: D

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

127) Identify the denominator of the fraction. 127) _____

$$\frac{13}{49}$$

Answer: 49

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

128) Simplify the exponential expression. 128) _____

$$(-2)^6$$

- A) -64 B) -12 C) 64 D) 32

Answer: C

129) Divide the real numbers. 129) _____

$$-21 \div (-3)$$

- A) 7 B) -7 C) 3 D) 63

Answer: A

130) Perform the indicated operations. 130) _____

$$-13 + (-23) + (-18) - 11$$

- A) -19 B) 17 C) -65 D) 3

Answer: C

- 131) Add the integers. 131) _____
 $-2 + (-4) + (-8) + 9 + 8$
A) -15 B) 3 C) 31 D) -31

Answer: B

- 132) Tiger Woods won the 2000 U.S. Open golf tournament with a score of 12 strokes under par (-12). His closest competitor, Ernie Els, finished 3 strokes over par (+3). What was the margin of victory? 132) _____
A) 18 strokes B) 9 strokes C) 15 strokes D) 12 strokes

Answer: C

- 133) Which is a false statement? 133) _____
A) All irrational numbers are real numbers.
B) All rational numbers are real numbers.
C) All natural numbers are rational numbers.
D) All integers are whole numbers.

Answer: D

- 134) Simplify the expression. 134) _____
 8^2
A) 64 B) 16 C) 256 D) 10

Answer: A

- 135) Simplify. 135) _____
 $|38.5|$
A) -38.5 B) $-\frac{1}{38.5}$ C) 38.5 D) $\frac{1}{38.5}$

Answer: C

- 136) Divide the real numbers. 136) _____
 $\frac{-15}{-3}$
A) 5 B) 3 C) -5 D) 45

Answer: A

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

- 137) Translate the phrase into a mathematical expression, then simplify the result. 137) _____
Seven-eighths added to negative three-fourths

Answer: $\frac{7}{8} + \left(-\frac{3}{4}\right); \frac{1}{8}$

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

138) Subtract the fractions.

$$\frac{17}{6} - \frac{3}{20}$$

A) $\frac{7}{10}$

B) $\frac{161}{60}$

C) -1

D) $\frac{141}{120}$

138) _____

Answer: B

139) Divide the real numbers.

$$\frac{1}{7} \div (-3)$$

A) $\frac{1}{21}$

B) $-\frac{1}{21}$

C) -21

D) $\frac{3}{7}$

139) _____

Answer: B

140) Divide the real numbers.

$$38 \div 0$$

A) 1

B) 38

C) 0

D) undefined

140) _____

Answer: D

141) Add the fractions.

$$\frac{1}{6} + \frac{2}{15}$$

A) $\frac{1}{10}$

B) $\frac{3}{21}$

C) $\frac{1}{45}$

D) $\frac{3}{10}$

141) _____

Answer: D

142) Divide the fractions.

$$6 \div \frac{5}{49}$$

A) $\frac{294}{5}$

B) $\frac{1,470}{49}$

C) $\frac{30}{49}$

D) $\frac{30}{294}$

142) _____

Answer: A

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

143) Which two terms in the expression are like terms?

$$5x^2y - 3yx^2 + 7y^2 - 5xy - 7x^2$$

143) _____

Answer: $5x^2y$ and $-3yx^2$

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

144) Determine if the statement is true or false.

144) _____

$$-\frac{1}{6} \geq -\frac{6}{7}$$

Answer: True False

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

145) Divide the mixed numbers.

145) _____

$$4\frac{5}{8} \div 3\frac{1}{2}$$

A) $4\frac{1}{4}$

B) $1\frac{5}{16}$

C) $1\frac{9}{28}$

D) $2\frac{3}{8}$

Answer: C

146) Simplify the exponential expression.

146) _____

$$-\left(\frac{1}{3}\right)^4$$

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

B) $\frac{1}{81}$

C) $-\frac{1}{81}$

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

Answer: C

147) Find the least common multiple for the numbers.

147) _____

9, 15

A) 135

B) 45

C) 3

D) 15

Answer: B

148) Multiply the real numbers.

148) _____

$$\frac{3}{5} \cdot \left(-\frac{20}{3}\right)$$

A) $\frac{60}{15}$

B) -4

C) $-\frac{9}{100}$

D) $-\frac{17}{15}$

Answer: B

149) Subtract the numbers.

149) _____

$$-20 - (-25)$$

A) 45

B) -45

C) 5

D) 500

Answer: C

150) Which fraction is an improper fraction?

150) _____

A) $-\frac{22}{7}$

B) $-\frac{7}{14}$

C) $\frac{1}{7}$

D) $\frac{7}{22}$

Answer: A

151) Simplify.

151) _____

$$-\left|-\frac{3}{4}\right|$$

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

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

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

D) $\frac{3}{4}$

Answer: C

152) Which property is illustrated by the following statement?

152) _____

$$-32 \cdot \frac{1}{-32} = 1$$

- A) Inverse property of multiplication
- B) Associative property of multiplication
- C) Commutative property of addition
- D) Identity property of addition

Answer: A

153) Divide the real numbers.

153) _____

$$\frac{56}{-7}$$

A) -8

B) -9

C) 49

D) 8

Answer: A

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

154) John reads $\frac{1}{5}$ of a book on Monday, then reads $\frac{1}{3}$ more on Tuesday. What fraction of the book did he read in the two days combined?

154) _____

Answer: $\frac{8}{15}$

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

155) Translate the phrase into an algebraic expression.

155) _____

The quotient of -188 and the absolute value of y

A) $\frac{-188}{|y|}$

B) $\frac{|y|}{-188}$

C) $\frac{|-188|}{y}$

D) $\left|\frac{-188}{y}\right|$

Answer: A

156) Write a proper or improper fraction associated with the shaded region of the figure. 156) _____



- A) $\frac{4}{9}$ B) $\frac{4}{3}$ C) $\frac{6}{4}$ D) $1\frac{1}{3}$

Answer: B

157) Which pair of numbers are reciprocals? 157) _____

- A) $\frac{43}{5}$ and $-\frac{5}{43}$ B) $\frac{43}{5}$ and $\frac{5}{43}$ C) $\frac{4}{8}$ and $\frac{1}{2}$ D) $\frac{43}{5}$ and $-\frac{43}{5}$

Answer: B

158) Which two terms in the expression are like terms? 158) _____

$$7z + 7z^2 - 18z + 18$$

- A) there are no like terms B) $7z$ and $-18z$
 C) $-18z$ and 18 D) $7z$ and $7z^2$

Answer: B

159) Perform the operations. 159) _____

$$200 \div 5 \div 8$$

- A) 6 B) 5 C) 320 D) 48

Answer: B

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

160) Let $A = \left\{ -\frac{3}{2}, \sqrt{3}, -9, 0.\bar{1}, \sqrt{11}, 8 \right\}$. List all of the rational numbers in set A. 160) _____

Answer: $-\frac{3}{2}, -9, 0.\bar{1}, 8$

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

161) What is the additive inverse of 3? 161) _____

- A) 1 B) -3 C) 0 D) $\frac{1}{3}$

Answer: B

162) Add the mixed numbers.

162) _____

$$8\frac{1}{3} + 12\frac{1}{2}$$

A) $\frac{125}{6}$

B) $\frac{115}{6}$

C) $\frac{26}{3}$

D) $\frac{101}{5}$

Answer: A

163) Add the numbers.

163) _____

$$-12 + (-8)$$

A) -20

B) -4

C) 4

D) 20

Answer: A

164) Use the order of operations to simplify the expression.

164) _____

$$4(4 - 5)^2 + 6^2$$

A) 40

B) 0

C) 148

D) 52

Answer: A

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

165) Use the distributive property to clear the parentheses.

165) _____

$$-(a - 14n + 18)$$

Answer: $-a + 14n - 18$

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

166) Evaluate the expression below for $x = 8$, $y = -3$, and $z = -8$.

166) _____

$$x + y + |z|$$

A) 3

B) 13

C) 19

D) -3

Answer: B

167) Write the number as a product of prime factors.

167) _____

$$98$$

A) 2×49

B) 9×8

C) $3 \times 5 \times 7$

D) $2 \times 7 \times 7$

Answer: D

168) Multiply the fractions.

168) _____

$$11 \times \frac{5}{31}$$

A) $\frac{5}{341}$

B) $\frac{1,705}{31}$

C) $\frac{55}{31}$

D) $\frac{55}{341}$

Answer: C

169) Simplify the fraction to lowest terms.

169) _____

$$\frac{80}{60}$$

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

B) $\frac{80}{60}$

C) $\frac{4}{3}$ or $1\frac{1}{3}$

D) $\frac{3}{4}$

Answer: C

170) Use the order of operations to simplify the expression.

170) _____

$$\frac{3}{4} + |7 - 12| \cdot 3$$

A) $\frac{63}{4}$

B) $\frac{69}{4}$

C) $-\frac{57}{4}$

D) $-\frac{51}{4}$

Answer: A

171) Add the integers.

171) _____

$$13 + (-2)$$

A) 11

B) -11

C) 15

D) -15

Answer: A

172) Multiply the real numbers.

172) _____

$$-15 \cdot 3$$

A) -45

B) -12

C) -41

D) 45

Answer: A

173) Add the numbers.

173) _____

$$-\frac{4}{5} + \left(-\frac{1}{25}\right) + 3$$

A) $\frac{54}{25}$

B) $-\frac{16}{25}$

C) $-\frac{18}{25}$

D) $\frac{56}{25}$

Answer: A

174) Find the opposite of $-\frac{5}{42}$.

174) _____

A) $\frac{42}{5}$

B) $-\frac{42}{5}$

C) $-\frac{5}{42}$

D) $\frac{5}{42}$

Answer: D

175) Subtract the numbers.

175) _____

$$\frac{1}{3} - \left(-\frac{2}{9}\right)$$

A) $\frac{5}{9}$

B) $\frac{2}{27}$

C) $\frac{1}{9}$

D) $-\frac{5}{9}$

Answer: A

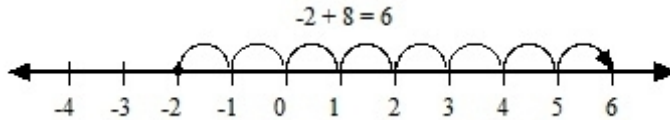
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

176) Use a number line to add the numbers.

176) _____

$$-2 + 8$$

Answer:



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

177) Simplify by clearing parentheses and combining like terms.

177) _____

$$11 - 4[2(z + 1) - 5(z - 2)]$$

A) $-28z + 43$

B) $12z - 37$

C) $12z + 43$

D) $-28z - 37$

Answer: B

178) Simplify the exponential expression.

178) _____

$$-6^2$$

A) -36

B) -12

C) 36

D) 12

Answer: A

179) Perform the operations.

179) _____

$$\frac{6 - 3[-5 - (3 - 6)^2]}{-2|4 - 7|}$$

A) 1

B) -8

C) -1

D) 8

Answer: B

180) Use the order of operations to simplify the expression.

180) _____

$$6 + 3 \div 3 \cdot 2 + 1$$

A) 21

B) 15

C) 9

D) 7

Answer: C

- 181) Which property is illustrated by the following statement? 181) _____
 $6(x - 2) = 6x - 12$
 A) Distributive property
 B) Commutative property of addition
 C) Associative property of multiplication
 D) Commutative property of multiplication

Answer: A

- 182) Add the fractions. 182) _____
 $\frac{7}{6} + \frac{3}{14}$
 A) $\frac{29}{21}$ B) $\frac{20}{21}$ C) $\frac{1}{2}$ D) $\frac{5}{21}$

Answer: A

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

- 183) Perform the indicated operations. 183) _____
 $9 - (23 - 19) - (-19)$

Answer: 24

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

- 184) Perform the operations. 184) _____

$$\frac{5 \cdot (-6) \div 2 + (4 - 7)^3}{2 \cdot (-1)}$$
 A) -42 B) 21 C) -18 D) 7

Answer: B

- 185) Simplify by combining like terms. 185) _____
 $3x - 7 + 7x - 6 - 6x$
 A) $-9x - 1$ B) $16x - 1$ C) $4x - 13$ D) $-9x - 13$

Answer: C

- 186) The value of one share of Cuzco, Inc., stock was \$29 on October 1. Over the next three days, it lost \$1.10, lost \$0.75, and gained \$0.65. Write a mathematical expression that describes the value of the stock, then simplify the result. 186) _____
 A) $29 + (-1.10) + (-0.75) + (-0.65) = 26.50$
 B) $29 + 1.10 + 0.75 + 0.65 = 31.50$
 C) $29 + 1.10 + (-0.75) + (-0.65) = 28.70$
 D) $29 + (-1.10) + (-0.75) + 0.65 = 27.80$

Answer: D

- 187) Simplify by clearing parentheses and combining like terms. 187) _____
 $5(5y - 4) - 9y$
 A) $-20y - 20$ B) $16y - 4$ C) $16y - 20$ D) $12y$

Answer: C

- 188) Simplify the square root. 188) _____
 $\sqrt{\frac{81}{100}}$

- A) $\frac{9}{10}$ B) $\frac{9}{100}$ C) $\frac{81}{10}$ D) $\frac{81}{100}$

Answer: A

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

- 189) Use the associative property of addition to rewrite the expression. 189) _____
 $(50 + 12x) + 3$

Answer: $50 + (12x + 3)$

- 190) A painting company estimates that it will take $4\frac{1}{2}$ days to paint one building, and 190) _____

$6\frac{3}{4}$ days to paint the one next door. How many days will it take to paint both?

Answer: $11\frac{1}{4}$ days

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

- 191) A college sociology course is attended by 32 students on the first day. On the second day, 2 students that overslept the day before come to class. On the third day, 4 students drop the class. Write a mathematical expression to describe the attendance of this class, then simplify the result. 191) _____

- A) $32 + (-2) + (-4) = 26$ B) $32 + 2 + 4 = 38$
 C) $32 + (-2) + 4 = 34$ D) $32 + 2 + (-4) = 30$

Answer: D

- 192) Evaluate the expression for the given substitution. 192) _____
 $6z - 14$; when $z = 5$

- A) -54 B) 44 C) 114 D) 16

Answer: D

- 193) Simplify: $3\sqrt{82 - 57} + |2 - 7| + 2 \cdot (-4)$ 193) _____

- A) -48 B) 22 C) 2 D) 12

Answer: D

194) Subtract the fractions.

194) _____

$$\frac{5}{4} - \frac{23}{20}$$

A) $\frac{1}{10}$

B) $\frac{18}{16}$

C) $-\frac{9}{10}$

D) $-\frac{9}{40}$

Answer: A

195) Which of the following expressions is not a variable?

195) _____

A) $|x + 20.4|$

B) Y

C) -3

D) x

Answer: C

196) Which of the following is not true for every real number a and b ?

196) _____

A) $a - b = b - a$

B) $a + b = b + a$

C) $a \cdot b = b \cdot a$

D) $a(b + c) = ab + ac$

Answer: A

197) Write the numbers in order from least to greatest.

197) _____

$$\frac{11}{8}, \frac{9}{4}, 2.7, -\frac{2}{3}, -0.9$$

A) $-0.9, -\frac{2}{3}, \frac{11}{8}, \frac{9}{4}, 2.7$

B) $-\frac{2}{3}, -0.9, 2.7, \frac{9}{4}, \frac{11}{8}$

C) $-0.9, -\frac{2}{3}, \frac{9}{4}, \frac{11}{8}, 2.7$

D) $-\frac{2}{3}, -0.9, \frac{11}{8}, \frac{9}{4}, 2.7$

Answer: A

198) Multiply the fractions.

198) _____

$$\frac{11}{30} \times \frac{19}{3}$$

A) $\frac{33}{570}$

B) $\frac{209}{90}$

C) $\frac{30}{33}$

D) $\frac{209}{3}$

Answer: B

199) Use the order of operations to simplify the expression.

199) _____

$$\frac{-3 \cdot 3 + 15}{(15 - 13)^2}$$

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

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

C) $-\frac{27}{2}$

D) -3

Answer: A

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

200) Find the least common multiple for the numbers.
8, 20, 45

200) _____

Answer: 360

Answer Key

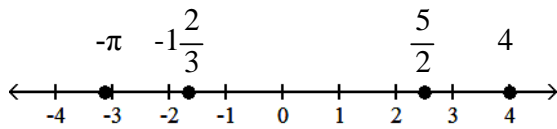
Testname: CH01

- 1) C
- 2) A
- 3) C
- 4) A
- 5) A
- 6) **a.** 0.18
b. Yes, $0.18 < 0.20$
- 7) D
- 8) FALSE
- 9) B
- 10) $(7 \cdot 3)t$
- 11) C
- 12) D
- 13) $\frac{9}{5}$
- 14) 15.4
- 15) $700 + 2(-350) + 2(-150) = -300$; Valerie lost \$300 for the week.
- 16) C
- 17) D
- 18) B
- 19) A
- 20) D
- 21) A
- 22) D
- 23) -212
- 24) A
- 25) C
- 26) $-\frac{9}{4}$
- 27) D
- 28) A
- 29) $2 \times 2 \times 2 \times 3 \times 3$
- 30) A
- 31) $831 + (-40) + 178 + (-20) = 949$
- 32) C
- 33) $-\frac{38}{3}t + \frac{205}{6}$
- 34) D
- 35) A
- 36) C
- 37) D
- 38) C
- 39) D

Answer Key

Testname: CH01

40)



41) A

42) B

43) B

44) D

45) C

46) B

47) C

48) A

49) $\frac{73}{45}$

50) C

51) $5(-2) + 5 = -5$; loss of \$5

52) C

53) C

54) B

55) B

56) $\frac{5}{3}$

57) -3

58) C

59) A

60) - 0

61) C

62) C

63) $12a^3b^4$

64) D

65) D

66) **a.** 445 calories; **b.** 375 calories; **c.** 535 calories

67) D

68) $26 + (-7) + (-20) + (-16)$; -17

69) C

70) B

71) $2\frac{7}{12}$ feet

72) 22

73) A

74) D

75) B

76) C

77) A

78) A

Answer Key

Testname: CH01

79) D

80) B

81) -10

82) $[-5 + (-7)] + 8$; -4

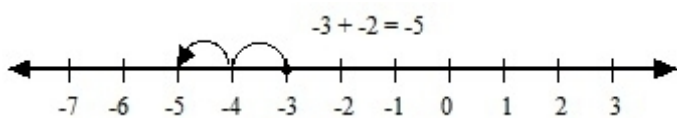
83) B

84) A

85) D

86) D

87)



88) $7y + 12$

89) A

90) A

91) $-5 - (-14)$; 9

92) \$13,000

93) B

94) D

95) $5(11 - t)$

96) D

97) D

98) 0.81

99) B

100) D

101) B

102) A

103) C

104) D

105) $(-6) \cdot (-9) = 54$

106) 1

107) B

108) $111 + x$

109) A

110) D

111) A

112) C

113) A

114) $\frac{1}{2}$

115) B

116) $\frac{16}{3}$

117) A

118) C

Answer Key

Testname: CH01

119) C

120) A

121) B

122) $-\frac{155}{6}$

123) A

124) D

125) B

126) D

127) 49

128) C

129) A

130) C

131) B

132) C

133) D

134) A

135) C

136) A

137) $\frac{7}{8} + \left(-\frac{3}{4}\right); \frac{1}{8}$

138) B

139) B

140) D

141) D

142) A

143) $5x^2y$ and $-3yx^2$

144) TRUE

145) C

146) C

147) B

148) B

149) C

150) A

151) C

152) A

153) A

154) $\frac{8}{15}$

155) A

156) B

157) B

158) B

159) B

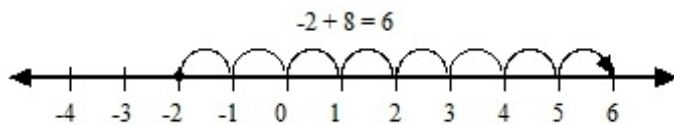
160) $-\frac{3}{2}, -9, 0.\bar{1}, 8$

161) B

Answer Key

Testname: CH01

- 162) A
- 163) A
- 164) A
- 165) $-a + 14n - 18$
- 166) B
- 167) D
- 168) C
- 169) C
- 170) A
- 171) A
- 172) A
- 173) A
- 174) D
- 175) A
- 176)



- 177) B
- 178) A
- 179) B
- 180) C
- 181) A
- 182) A
- 183) 24
- 184) B
- 185) C
- 186) D
- 187) C
- 188) A
- 189) $50 + (12x + 3)$
- 190) $11\frac{1}{4}$ days
- 191) D
- 192) D
- 193) D
- 194) A
- 195) C
- 196) A
- 197) A
- 198) B
- 199) A
- 200) 360