Name_____atfm0301car2810

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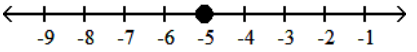
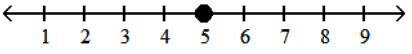
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

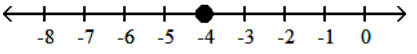
Graph the integer on a number line.

1) -5 1) _____

A) 

B) 

C) 

D) 

Answer: B
Objective: (2.1) Graph Integer on Number Line
video01

Use < or > to make a true statement.

2) -8 ? 7 2) _____
A) < B) >
Answer: A
Objective: (2.1) Use < or > to Make True Statement
video02

3) -7 ? -2 3) _____
A) < B) >
Answer: A
Objective: (2.1) Use < or > to Make True Statement
video03

Simplify.

4) |17| 4) _____
A) 0 B) 17 C) -17 D) 34
Answer: B
Objective: (2.1) Find Absolute Value
video04

5) |-56| 5) _____
A) 56 B) -112 C) -56 D) 0
Answer: A
Objective: (2.1) Find Absolute Value
video05

6) $|0|$ 6) _____

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

Answer: A
Objective: (2.1) Find Absolute Value
video06

7) $-(-14)$ 7) _____

A) 0 B) -1 C) -14 D) 14

Answer: D
Objective: (2.1) Simplify Expression with Negative Sign
video07

8) $-|-20|$ 8) _____

A) -1 B) 20 C) 0 D) -20

Answer: D
Objective: (2.1) Simplify Expression with Negative Sign
video08

Add.

9) $-79 + (-17)$ 9) _____

A) 96 B) 62 C) -62 D) -96

Answer: D
Objective: (2.2) Add Integers with Like Signs
video09

10) $-90 + 97$ 10) _____

A) -187 B) -7 C) 7 D) 187

Answer: C
Objective: (2.2) Add Integers with Different Signs
video10

11) $-10 + 8$ 11) _____

A) -2 B) 2 C) -18 D) 18

Answer: A
Objective: (2.2) Add Integers with Different Signs
video11

12) $-160 + 103$ 12) _____

A) 57 B) -57 C) -263 D) 263

Answer: B
Objective: (2.2) Add Integers with Different Signs
video12

Solve and check.

13) $x + 4 = 13$ 13) _____

A) $x = 9$ B) $x = 17$ C) $x = -9$ D) $x = -17$

Answer: A
Objective: (2.3) Solve Equation Missing Addend
video13

14) $z + 11 = -2$ 14) _____

A) $z = 13$ B) $z = -13$ C) $z = -9$ D) $z = 9$

Answer: B

Objective: (2.3) Solve Equation Missing Addend

video14

Multiply.

15) $(-7)(-7)(-6)$ 15) _____

A) -304 B) -194 C) 294 D) -294

Answer: D

Objective: (2.4) Multiply More than Two Integers

video15

Divide.

16) $\frac{-80}{5}$ 16) _____

A) 26 B) -16 C) 16 D) -26

Answer: B

Objective: (2.4) Divide Integers

video16

17) $\frac{0}{-17}$ 17) _____

A) 17 B) -17 C) 0 D) Undefined

Answer: C

Objective: (2.4) Divide Integers

video17

18) $\frac{-6}{0}$ 18) _____

A) 0 B) Undefined C) 6 D) -6

Answer: B

Objective: (2.4) Divide Integers

video18

Solve and check.

19) $-4a = 8$ 19) _____

A) $a = -2$ B) $a = 1$ C) $a = -12$ D) $a = 12$

Answer: A

Objective: (2.4) Solve Equation for Missing Factor

video19

20) $-13d = 0$ 20) _____

A) $d = 0$ B) No solution C) $d = -13$ D) $d = 13$

Answer: A

Objective: (2.4) Solve Equation for Missing Factor

video20

Simplify.

21) $\sqrt{64}$ 21) _____

A) 32 B) 8 C) 9 D) Not an integer

Answer: B

Objective: (2.4) Evaluate Radical Expression

video21

Simplify using order of operations.

22) $7 + 5 \cdot (-4)$ 22) _____

A) 13 B) -13 C) 48 D) -48

Answer: B

Objective: (2.5) Use Order of Operations

video22

23) $-2 + 7(4 - 8)$ 23) _____

A) 20 B) 30 C) -20 D) -30

Answer: D

Objective: (2.5) Use Order of Operations

video23

24) $9 - 7^2$ 24) _____

A) 40 B) 4 C) -40 D) -4

Answer: C

Objective: (2.5) Use Order of Operations (with Exponent)

video24

25) $\sqrt{100} - \sqrt{9}$ 25) _____

A) 30 B) 14 C) 13 D) 7

Answer: D

Objective: (2.5) Use Order of Operations (with Radical)

video25

26) $-10\sqrt{100} + |22 \div (-11)| - (22 - 10)$ 26) _____

A) -130 B) -110 C) -101 D) -86

Answer: B

Objective: (2.5) Use Order of Operations (with Radical)

video26

27) $\dfrac{-19 + 5^2 - (-15)}{-6 - 9 + 18}$ 27) _____

A) 4 B) -7 C) -4 D) 7

Answer: D

Objective: (2.5) Use Order of Operations (Quotient)

video27

Evaluate.

28) $10x^2 + 6y$; $x = 8, y = 9$ 28) _____

A) 694 B) 6300 C) 6454 D) 858

Answer: A

Objective: (3.1) Evaluate Algebraic Expression

video28

29) $10x^2 - 3x - 5$; $x = -2$ 29) _____

A) 37 B) -19 C) 41 D) 31

Answer: C

Objective: (3.1) Evaluate Algebraic Expression

video29

30) $9x - 9(x + 2)$; $x = -9$ 30) _____

A) -32 B) -13 C) -18 D) -21

Answer: C

Objective: (3.1) Evaluate Algebraic Expression

video30

31) $-|4m + 4n|$; $m = -8, n = 3$ 31) _____

A) -15 B) -17 C) -20 D) -24

Answer: C

Objective: (3.1) Evaluate Algebraic Expression

video31

32) $b^2 - 4ac$; $b = -5, a = 3, c = 6$ 32) _____

A) -57 B) -43 C) -53 D) -47

Answer: D

Objective: (3.1) Evaluate Algebraic Expression

video32

Evaluate the expression using the given values.

33) $\frac{x^2}{2z + y}$; $x = 5, y = -1, z = 3.$ 33) _____

A) 5 B) - 5 C) 25 D) $\frac{25}{7}$

Answer: A

Objective: (3.1) Evaluate Algebraic Expression (Rational/Radical)

video33

Find all values for the variable and cause the expression to be undefined or indeterminate.

34) $\frac{9}{m + 6}$ 34) _____

A) none B) m = -6 C) m = 6 D) m = 0

Answer: B

Objective: (3.1) Find Values That Make Expression Undefined/Indeterminate

video34

35) $\frac{x + 5}{(x - 2)(x - 7)}$ 35) _____

A) x = 2 or x = 7 B) x = -5 C) x = -2 or x = -7 D) x = 14

Answer: A

Objective: (3.1) Find Values That Make Expression Undefined/Indeterminate

video35

Combine like terms.

36) m - 5m 36) _____

A) $-4m^2$ B) $-6m^2$ C) -6m D) -4m

Answer: D

Objective: (3.3) Combine Like Terms

video36

Add and write the resulting polynomial in descending order of degree.

37) (8x + 1) + (-6x + 11) 37) _____

A) 9x + 5 B) 2x + 12 C) 14x + 12 D) 14x

Answer: B

Objective: (3.3) Add Binomials

video37

38) $(8x^8 - 8x^5 + 8x^2 + 4) + (9x^7 + 2x^5 - 3x)$ 38) _____

A) $8x^8 + 9x^7 - 6x^5 + 8x^2 - 3x + 4$ B) $8x^8 + 9x^7 + 6x^5 + 8x^2 - 3x + 4$

C) $17x^8 - 6x^5 + 8x^2 - 3x + 4$ D) $17x^8 - 10x^5 + 8x^2 - 3x + 4$

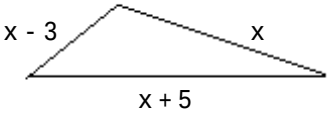
Answer: A

Objective: (3.3) Add Polynomials

video38

Write an expression in simplest form for the perimeter of the shape.

39) 39) _____



A) 3x + 2 B) 3x + 4 C) 3x + 8 D) $3x^3 + 15$

Answer: A

Objective: (3.3) Find Expression for Perimeter

video39

Subtract and write the resulting polynomial in descending order of degree.

40) (10y + 13) - (-6y + 9) 40) _____

A) 20y B) 16y + 22 C) -16y - 4 D) 16y + 4

Answer: D

Objective: (3.3) Subtract Binomials

video40

41) $(9p^2 + 12p + 8) - (3p^2 + 4p - 6)$ 41) _____

A) $6p^2 - 8p - 14$ B) $6p^2 + 8p + 2$ C) $6p^2 + 8p + 14$ D) $6p^4 + 8p^2 + 14$

Answer: C
Objective: (3.3) Subtract Polynomials

video41

Multiply.

42) $(-3x^3)(-8x^5)$ 42) _____

A) $-24x^{15}$ B) $24x^8$ C) $-11x^{15}$ D) $-11x^8$

Answer: B
Objective: (3.4) Multiply Monomials

video42

43) $(-7x^6)(5x^3)(9x^2)$ 43) _____

A) $315x^{11}$ B) $-315x^{11}$ C) $-315x^{36}$ D) $315x^{36}$

Answer: B
Objective: (3.4) Multiply Monomials

video43

Simplify.

44) $(-2x^4)^5$ 44) _____

A) $32x^9$ B) $-32x^{20}$ C) $-32x^9$ D) $32x^{20}$

Answer: B
Objective: (3.4) Use Power Rules to Simplify

video44

Multiply.

45) $3(10x + 3)$ 45) _____

A) $30x + 3$ B) $10x + 9$ C) $39x$ D) $30x + 9$

Answer: D
Objective: (3.4) Multiply Monomial and Polynomial

video45

46) $12x(-7x - 6)$ 46) _____

A) $-84x^2 - 6x$ B) $-156x^2$ C) $-7x^2 - 72x$ D) $-84x^2 - 72x$

Answer: D
Objective: (3.4) Multiply Monomial and Polynomial

video46

47) $11x^5(-9x^7 - 3x^5)$ 47) _____

A) $-99x^{12} - 3x^5$ B) $-132x^{12} - 132x^{10}$

C) $-99x^{12} - 33x^{10}$ D) $-132x^5$

Answer: C
Objective: (3.4) Multiply Monomial and Polynomial

video47

Find the prime factorization. Write the answer in exponential form.

48) 30 48) _____

A) $2 \cdot 3 \cdot 5$ B) $2^2 \cdot 5$ C) $6 \cdot 5$ D) $3^2 \cdot 2$

Answer: A

Objective: (3.5) Find Prime Factorization

video48

Find the GCF.

49) 100 and 60 49) _____

A) 5 B) 4 C) 20 D) 10

Answer: C

Objective: (3.5) Find GCF

video49

Divide.

50) $\frac{20x^{10}}{2x^5}$ 50) _____

A) $18x^5$ B) $10x^{15}$ C) $10x^5$ D) $10x^{105}$

Answer: C

Objective: (3.6) Divide Monomials

video50

Solve and check.

51) $6z + 9 = 5z + 2$ 51) _____

A) $z = -7$ B) $z = -11$ C) $z = 11$ D) $z = 7$

Answer: A

Objective: (4.2) Solve Linear Equation

video51

52) $-2a + 5 + 3a = 15 - 21$ 52) _____

A) $a = -11$ B) $a = 41$ C) $a = -41$ D) $a = 11$

Answer: A

Objective: (4.2) Solve Linear Equation

video52

53) $4(y + 2) = 5(y - 2)$ 53) _____

A) $y = 2$ B) $y = -18$ C) $y = 18$ D) $y = -2$

Answer: C

Objective: (4.2) Solve Linear Equation

video53

54) $-20 = n - 1$ 54) _____

A) $n = -21$ B) $n = -19$ C) $n = 19$ D) $n = 21$

Answer: B

Objective: (4.2) Solve Linear Equation

video54

55) $7y - 2(y - 2) = 9y - (5y + 8)$ 55) _____

A) $y = 4$ B) $y = -12$ C) $y = 12$ D) $y = -4$

Answer: B

Objective: (4.2) Solve Linear Equation

video55

Solve this equation.

56) $10y = 10$ 56) _____

A) $y = 0$ B) $y = -1$ C) $y = 10$ D) $y = 1$

Answer: D

Objective: (4.3) Solve Linear Equation (Mult/Div Principle)

video56

57) $-19m = 57$ 57) _____

A) $m = 0$ B) $m = 3$ C) $m = -3$ D) $m = -38$

Answer: C

Objective: (4.3) Solve Linear Equation (Mult/Div Principle)

video57

Solve.

58) $9n - 6 = 30$ 58) _____

A) $n = 31$ B) $n = 27$ C) $n = 9$ D) $n = 4$

Answer: D

Objective: (4.3) Solve Linear Equation (Mult/Div/Add/Subt Principle)

video58

59) $61 = 9x - 2$ 59) _____

A) $x = 58$ B) $x = 7$ C) $x = 54$ D) $x = 8$

Answer: B

Objective: (4.3) Solve Linear Equation (Mult/Div/Add/Subt Principle)

video59

60) $5x - 8x + 10x = 28 - 10x + 3x$ 60) _____

A) $x = -3$ B) $x = -2$ C) $x = 3$ D) $x = 2$

Answer: D

Objective: (4.3) Solve Linear Equation (Mult/Div/Add/Subt Principle)

video60

Fill in the blank so that the fractions are equivalent.

61) $\frac{1}{2} = \frac{?}{8}$ 61) _____

A) 2 B) 8 C) 6 D) 4

Answer: D

Objective: (5.1) Find Missing Number to Make Fractions Equivalent

video61

Write the mixed number as an improper fraction.

62) $5\frac{8}{9}$ 62) _____

A) $\frac{53}{8}$ B) $\frac{45}{8}$ C) $\frac{45}{9}$ D) $\frac{53}{9}$

Answer: D
Objective: (5.1) Write Mixed Number as Improper Fraction
video62

Reduce to lowest terms.

63) $\frac{15}{27}$ 63) _____

A) $\frac{5}{9}$ B) $\frac{15}{27}$ C) $\frac{5}{3}$ D) $\frac{3}{9}$

Answer: A
Objective: (5.2) Simplify Fraction to Lowest Terms
video63

Write the requestd fraction in lowest terms.

64) 21 minutes is what fraction of an hour? 64) _____

A) $\frac{7}{4}$ B) $\frac{21}{100}$ C) $\frac{7}{20}$ D) $\frac{7}{8}$

Answer: C
Objective: (5.2) Solve Apps: Simplify Fraction to Lowest Terms
video64

Write as a mixed number and simplify.

65) $\frac{47}{8}$ 65) _____

A) 6 B) $5\frac{7}{8}$ C) $6\frac{7}{8}$ D) $4\frac{7}{8}$

Answer: B
Objective: (5.2) Write Improper Fraction as Mixed Number
video65

Reduce to lowest terms.

66) $\frac{18x^3yz^2}{33xy^2z^4}$ 66) _____

A) $\frac{6yz^2}{11x^2}$ B) $\frac{6x^2}{11yz^2}$ C) $\frac{3x^2}{11yz^2}$ D) $\frac{3x^2y}{11z^2}$

Answer: B
Objective: (5.2) Reduce Fraction to Lowest Terms
video66

Multiply and express the product in lowest terms.

67) $\frac{15}{18} \cdot \frac{3}{5}$ 67) _____

A) $\frac{1}{5}$ B) $\frac{6}{7}$ C) $\frac{45}{90}$ D) $\frac{1}{2}$

Answer: D
Objective: (5.3) Multiply Fractions (Express in Lowest Terms)
video67

68) $-\frac{12x^4y}{10z} \cdot \frac{20z}{20x^2}$ 68) _____

A) $-\frac{6x^2y}{5}$ B) $-\frac{3x^2y}{10}$ C) $-\frac{6x^2yz}{5}$ D) $-\frac{6x^2z}{5}$

Answer: A
Objective: (5.3) Multiply Rational Expressions
video68

Simplify.

69) $\left(\frac{5}{9}\right)^2$ 69) _____

A) $2\frac{7}{9}$ B) $\frac{25}{81}$ C) $1\frac{4}{5}$ D) $\frac{5}{81}$

Answer: B
Objective: (5.3) Use Exponents with Fractions/Rational Expressions
video69

70) $\left(\frac{m^3n}{3p^2}\right)^2$ 70) _____

A) $\frac{m^5n^2}{3p^2}$ B) $\frac{m^5n^2}{9p^4}$ C) $\frac{m^6n^2}{9p^4}$ D) $\frac{m^6n^2}{3p^2}$

Answer: C
Objective: (5.3) Use Exponents with Fractions/Rational Expressions
video70

71) $\sqrt{\frac{49}{121}}$ 71) _____

A) $\frac{49}{121}$ B) 1 C) $\frac{7}{11}$ D) $\sqrt{\frac{7}{11}}$

Answer: C
Objective: (5.4) Simplify Square Root of Quotient
video71

Solve.

72) $-\frac{16}{21}y = -\frac{4}{15}$ 72) _____

A) $\frac{28}{5}$ B) $\frac{16}{35}$ C) $\frac{35}{16}$ D) $\frac{7}{20}$

Answer: D
Objective: (5.4) Solve Equation with Fractions
video72

Find the LCM.

73) 14 and 35 73) _____

A) 70 B) 35 C) 49 D) 490

Answer: A
Objective: (5.5) Find the LCM (Two or More Numbers)
video74

74) $30h^5k$ and $360h^2k^3$ 74) _____

A) $360h^5k^3$ B) $360h^7k^4$ C) $30h^2k$ D) $15h^2k$

Answer: A
Objective: (5.5) Find the LCM (Variables/Exponents)
video74

Add or subtract.

75) $\frac{6}{21} - \frac{2}{21}$ 75) _____

A) $\frac{4}{21}$ B) $\frac{1}{3}$ C) $\frac{4}{7}$ D) $\frac{1}{2}$

Answer: A
Objective: (5.6) Add/Subtract Fractions/Rational Expressions (Same Denominator)
video75

76) $\frac{11}{12x} - \frac{4}{12x}$ 76) _____

A) $\frac{7}{12x}$ B) $1\frac{5x}{7}$ C) 7 D) $\frac{7}{24x}$

Answer: A
Objective: (5.6) Add/Subtract Fractions/Rational Expressions (Same Denominator)
video76

77) $\frac{4}{8} + \frac{1}{12} + \frac{4}{15}$ 77) _____

A) $\frac{59}{180}$ B) $\frac{17}{20}$ C) $1\frac{7}{10}$ D) $\frac{3}{40}$

Answer: B
Objective: (5.6) Add/Subtract Fractions/Rational Expressions (Different Denominators)
video77

78) $\frac{5}{12m} - \frac{5}{8m}$ 78) _____

A) $1\frac{1}{24m}$ B) $\frac{5}{12m}$ C) $\frac{-5}{24m}$ D) 0

Answer: C
Objective: (5.6) Add/Subtract Fractions/Rational Expressions (Different Denominators)
video78

79) $3\frac{4}{7} + 2\frac{4}{7}$ 79) _____

A) $5\frac{4}{7}$ B) $5\frac{1}{7}$ C) $6\frac{1}{7}$ D) $5\frac{8}{7}$

Answer: C
Objective: (5.6) Add/Subtract Mixed Numbers
video79

Solve.

80) $k + \frac{1}{5} = \frac{1}{2}$ 80) _____

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

Answer: C
Objective: (5.6) Solve Equation with Fractions
video80

Simplify.

81) $\frac{17}{18} - \frac{7}{9} \cdot \frac{7}{8}$ 81) _____

A) $\frac{1}{432}$ B) $3\frac{15}{19}$ C) $\frac{19}{72}$ D) $\frac{7}{48}$

Answer: C
Objective: (5.7) Order of Operations (Fractions)
video81

82) $\left(\frac{2}{3}\right)^2 + 5\frac{1}{3} \div 1\frac{1}{5}$ 82) _____

A) $4\frac{22}{27}$ B) $5\frac{1}{9}$ C) $4\frac{8}{9}$ D) $5\frac{7}{9}$

Answer: C
Objective: (5.7) Order of Operations (Fractions)
video82

Add.

83) 0.259 + 6.2 83) _____

A) 6.460 B) 6.569 C) 6.459 D) 6.449

Answer: C
Objective: (6.2) Add Decimal Numbers
video83

84) 41.64 + 1 + 73.29 + 18.494 84) _____

A) 134.424 B) 134.434 C) 135.424 D) 134.524

Answer: A

Objective: (6.2) Add Decimal Numbers

video84

Subtract.

85) 14.2 - 2.38 85) _____

A) 11.92 B) 17.58 C) 11.82 D) 16.58

Answer: C

Objective: (6.2) Subtract Decimal Numbers

video85

Add or subtract.

86) -5.041 + (-4.173) 86) _____

A) 9.214 B) 0.868 C) 21.036 D) -9.214

Answer: D

Objective: (6.2) Add or Subtract Signed Decimals

video86

Solve and check.

87) 6.8 = x + 6.3 87) _____

A) x = 0.5 B) x = 1.08 C) x = 13.1 D) x = -0.5

Answer: A

Objective: (6.2) Solve Equation Using Addition/Subtraction Principle

video87

88) -1.2 + x = 16 88) _____

A) x = 14.3 B) x = 17.2 C) x = 14.8 D) x = 16.7

Answer: B

Objective: (6.2) Solve Equation Using Addition/Subtraction Principle

video88

Multiply.

89) (0.5)(0.7) 89) _____

A) 0.35 B) 0.0035 C) 0.035 D) 3.5

Answer: A

Objective: (6.3) Multiply Decimal Numbers

video89

90) (-0.503)(-0.03) 90) _____

A) 1.509 B) 0.0001509 C) 0.001509 D) 0.01509

Answer: D

Objective: (6.3) Multiply Decimal Numbers

video90

Evaluate the expression.

91) $(2.4)^3$ 91) _____

A) 138.24 B) 13.824 C) 1.3824 D) 7.2

Answer: B

Objective: (6.3) Evaluate Power of Decimal Number

no video

Write the number in scientific notation.

92) The population of a city is 69,000. 92) _____

A) 6.9×10^4 B) 6.9×10^5 C) 6.9×10^{-4} D) 6.9×10^{-5}

Answer: A
Objective: (6.3) Write Standard Form Number in Scientific Notation
no video

Solve.

93) $-2.7x - 2.64 = -18.3$ 93) _____

A) $x = 20.94$ B) $x = -15.66$ C) $x = 5.8$ D) $x = -7.8$

Answer: C
Objective: (6.6) Solve Equation Using Add/Sub/Mult/Div Principles
no video

94) $-7.4q + 1.3 = -28.2 - 1.5q$ 94) _____

A) $q = -35$ B) $q = 5$ C) $q = 4.2$ D) $q = 4.0$

Answer: B
Objective: (6.6) Solve Equation Using Add/Sub/Mult/Div Principles
no video

95) $5.23x - 8.42 = 8.52x - 25.857$ 95) _____

A) $x = 6.3$ B) $x = 5.3$ C) $x = 0.54$ D) $x = 0.53$

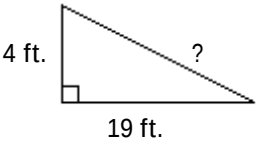
Answer: B
Objective: (6.6) Solve Equation Using Add/Sub/Mult/Div Principles
no video

96) $22(0.2n + 0.31) = 2.66 - (0.4 - 4.21n)$ 96) _____

A) $n = -24$ B) $n = -26$ C) $n = -28.21$ D) $n = -22.316$

Answer: A
Objective: (6.6) Solve Equation Using Add/Sub/Mult/Div Principles
video

97) The diagram below shows the side view of a plan for a slanted roof. Find the unknown length in this roof plan. 97) _____



A) 9.7 ft. B) 188.5 ft. C) 19.4 ft. D) 11.5 ft.

Answer: C
Objective: (6.6) Solve Apps: Solving Eqns/Numbers/Pythagorean Theorem
no video

Solve for the missing number.

98) $\frac{48}{132} = \frac{12}{x}$ 98) _____

A) $\frac{576}{132}$ B) 1536 C) $\frac{1}{33}$ D) 33

Answer: D
Objective: (7.2) Solve Proportions
no video

99) $\frac{1}{2} = \frac{n}{4\frac{1}{7}}$ 99) _____

A) $2\frac{1}{14}$ B) $3\frac{1}{2}$ C) $8\frac{1}{7}$ D) $\frac{14}{29}$

Answer: A
Objective: (7.2) Solve Proportions
no video

Solve the problem.

100) If 4 sandwich rolls cost $1.08, how much will 24 rolls cost? 100) _____

A) $7.48 B) $6.48 C) $4.32 D) $6.32

Answer: B
Objective: (7.2) Solve Apps: Proportions
no video

Write as a percent. Round to the nearest tenth of a percent.

101) $\frac{8}{10}$ 101) _____

A) 80% B) 8% C) 0.8% D) 800%

Answer: A
Objective: (8.1) Write Fraction as Percent
no video

102) $\frac{11}{10}$ 102) _____

A) 55% B) 200% C) 11% D) 110%

Answer: D
Objective: (8.1) Write Fraction as Percent
no video

Translate to a proportion and solve. Round the answer to the nearest hundredth if necessary.

103) What number is 10% of 300? 103) _____

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

Answer: D
Objective: (8.3) Solve Percent Problem for Part
o video

Translate to a proportion and solve.

104) 51 is 60% of what number? 104) _____

A) 8.5 B) 30.6 C) 85 D) 850

Answer: C
Objective: (8.3) Solve Percent Problem for Whole
no video

Translate to a proportion and solve. Round the answer to the nearest tenth of a percent if necessary.

105) What percent of 1080 is 54? 105) _____

A) 20% B) 5% C) 21% D) 6%

Answer: B
Objective: (8.3) Solve Percent Problem for Percent
no video

Solve the problem.

106) A pension fund invests $70,600 in real estate and earns 2% per year on the investment. How much money is earned per year? 106) _____

A) $3,530,000 B) $1412 C) $14,120 D) $353,000

Answer: B
Objective: (8.4) Solve Apps: Solve for Part in Percent Problem
no video

107) The appliance store where the Scott family shops offers a 6% discount for paying cash. The Scott family received a discount of $41. What was their total bill before the discount? 107) _____

A) $683 B) $200 C) $2 D) $7

Answer: A
Objective: (8.4) Solve Apps: Solve for Whole Amount in Percent Problem
no video

108) Alex and Juana went on a 125-mile canoe trip with their class. On the first day they traveled 30 miles. What percent of the total distance did they canoe? 108) _____

A) 0.24% B) 400% C) 4% D) 24%

Answer: D
Objective: (8.4) Solve Apps: Calculate Percent in Percent Problem
no video

Solve.

109) A camera costs $670. If the sales tax rate is 4%, how much tax is charged and what is the total price? Round your answers to the nearest cent. 109) _____

A) $268.00, $938.00 B) $20.10, $690.10
C) $26.80, $696.80 D) $33.50, $703.50

Answer: C
Objective: (8.5) Solve Apps: Solve Given Percent Increase (Sales Tax)
no video

110) The normal gasoline mileage of a car is 34 mpg. On a smooth road, its mileage is 12% higher. What is its mileage on a smooth road? Round your answer to the nearest tenth. 110) _____

A) 34 mpg B) 38.1 mpg C) 4.1 mpg D) 50 mpg

Answer: B
Objective: (8.5) Solve Apps: Solve Given Percent Increase (Other)
no video

111) Bathing suits are often on sale in July. The regular price of one suit is $23. With a 35% discount, what is the sale price of the suit? 111) _____

A) $15.95 B) $14.95 C) $8.05 D) $13.95

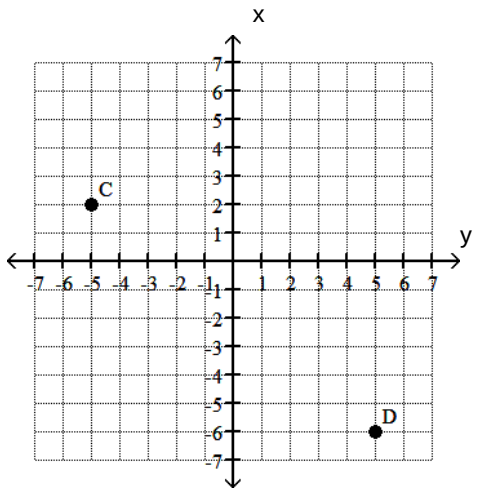
Answer: B
Objective: (8.5) Solve Apps: Solve Given Percent Decrease (Discount)
no video

112) Approximately 34% of Samantha's gross monthly income is deducted for Social Security, federal withholdings, state withholdings, insurance, etc. If her gross monthly salary is $2694, then what is her net pay? 112) _____

A) $1185.36 B) $1778.04 C) $1508.64 D) $915.96

Answer: B
Objective: (8.5) Solve Apps: Solve Given Percent Decrease (Other)
no video

Give the coordinates of the points shown on the graph.

113) 

113) _____

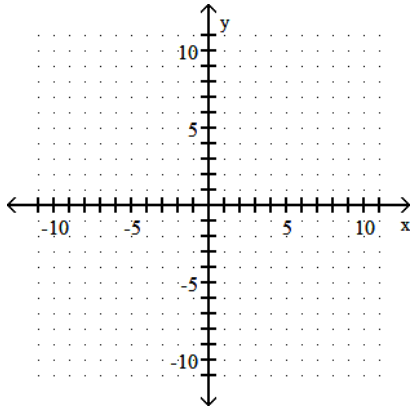
A) C = (-5, -6), D = (2, -6)
B) C = (2, 6), D = (-6, 5)
C) C = (-5, 2), D = (-6, 5)
D) C = (-5, 2), D = (5, -6)

Answer: D
Objective: (9.2) Find Coordinates of Point on Graph
no video

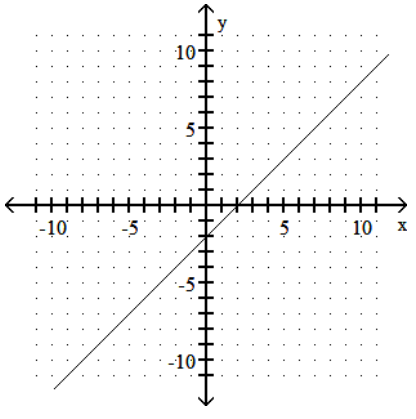
Graph the equation.

114) y = x - 2

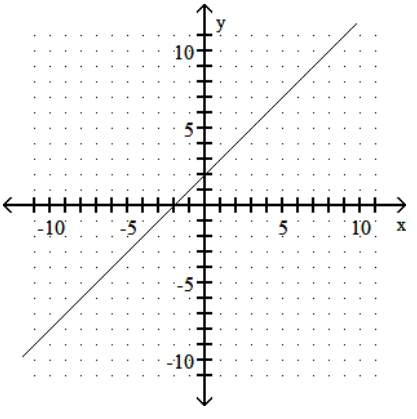
114) _____



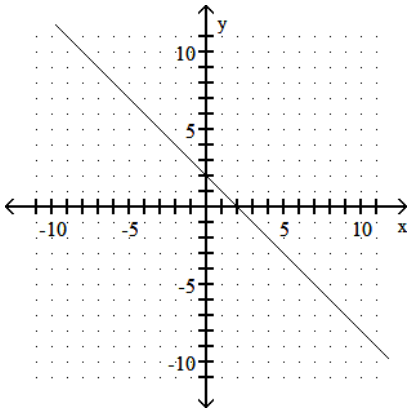
A)



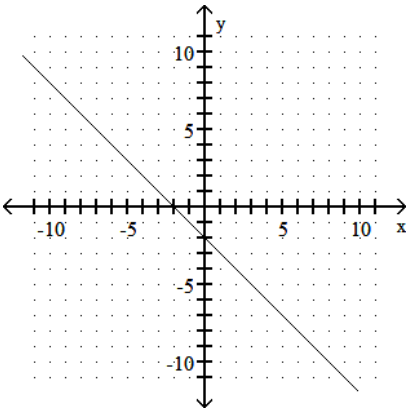
B)



C)



D)



Answer: A

Objective: (9.3) Graph Linear Equation

no video