PLACEMENT TEST PRACTICE

STUDY THE FOLLOWING PROBLEMS TO PLACE OUT OF MATH 045

Name_____

SHORT ANSWER. Show your work where appropriate.

Determine the place value of the digit 3 in the whole number.

1) 25,304,168 1) _____

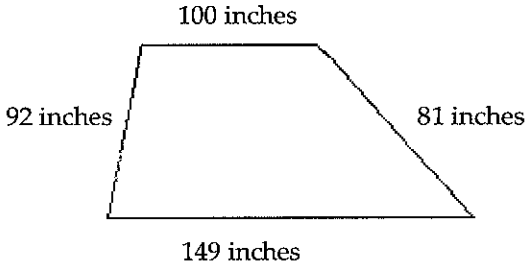
Write the whole number in words.

2) 135,060 2) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. If the correct answer is not there, choose "E" for "none of these".

Find the perimeter.

3) 3) _____



A) 362 inches B) 346 inches C) 422 inches D) 322 inches

Solve.

4) Lew is installing an invisible fence in his back yard which measures 98 feet by 68 feet by 83 feet by 99 feet. How many feet of wiring is needed to enclose his yard? 4) _____

A) 348 feet B) 338 feet C) 368 feet D) 358 feet

Subtract.

5) 55,145 - 36,883 5) _____

A) 18,256 B) 18,262 C) 24,262 D) 18,176

Solve.

6) A stock worth $232 per share on July 12 dropped to $53 per share on July 31 of the same year. Find how much it lost in value from July 12th to the 31st. 6) _____

A) $180 B) $181 C) $179 D) $189

SHORT ANSWER. Show your work where appropriate.

Round the whole number to the given place value.

7) 315 to the nearest ten 7) _____

8) 25,929,265 to the nearest million 8) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. If the correct answer is not there, choose "E" for "none of these".

Estimate the sum or difference by rounding each number to the nearest hundred.

9) 9) _____

$$\begin{array}{r} 826 \\ 933 \\ 831 \\ 696 \\ +\ 846 \\ \hline \end{array}$$

A) 4000 B) 4132 C) 4130 D) 4100

10) 10) _____

$$\begin{array}{r} 728 \\ -\ 365 \\ \hline \end{array}$$

A) 1100 B) 400 C) 300 D) 363

Solve the problem by estimating.

11) Andy wants to buy a refrigerator for $999, a stove for $859, and a dishwasher for $449. Round each cost to the nearest hundred to estimate the total cost. 11) _____

A) $2100 B) $2300 C) $2400 D) $2200

Multiply.

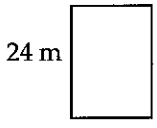
12) 12) _____

$$\begin{array}{r} 664 \\ \times\ 306 \\ \hline \end{array}$$

A) 203,284 B) 203,184 C) 203,174 D) 203,194

Find the area of the rectangle.

13) 13) _____



A) 504 m^2 B) 90 m^2 C) 1008 m^2 D) 45 m^2

Solve.

14) A case of candy bars has 3 layers of candy bars. In each layer are 5 rows with 16 candy bars in each row. Find how many candy bars are in a case. 14) _____

A) 240 candy bars B) 230 candy bars C) 239 candy bars D) 250 candy bars

SHORT ANSWER. Show your work where appropriate.

Find the quotient.

15) $\frac{8}{0}$ 15) _____

16) $0 \div 38$ 16) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. If the correct answer is not there, choose "E" for "none of these".

Divide.

17) $6067 \div 514$ 17) _____

A) 13 R 3 B) 13 R 31 C) 13 R 319 D) 13

Solve.

18) Amy teaches Chinese lessons for \$65 per student for a 6-week session. From one group of students, she collects \$2340. Find how many students are in the group. 18) _____

A) 38 students B) 40 students C) 36 students D) 26 students

SHORT ANSWER. Show your work where appropriate.

Write using exponential notation.

19) $7 \cdot 7 \cdot 4 \cdot 4 \cdot 4 \cdot 4$ 19) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. If the correct answer is not there, choose "E" for "none of these".

Simplify.

20) $7^2 - 2 \cdot 8$ 20) _____

A) 33 B) 376 C) 280 D) 200

21) $[31 - (4 + 6) \div 2] - [1 + 9 \div 3]$ 21) _____

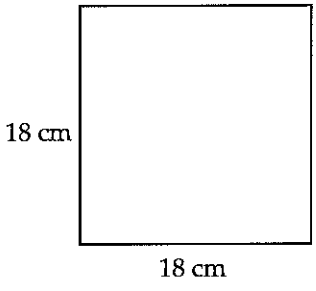
A) 22 B) 17 C) 29 D) 19

22) $\dfrac{32(7 - 4) - 24}{3^2 - 3}$ 22) _____

A) 16 B) 24 C) 12 D) 17

Find the area of the square.

23) 23) _____



A) 648 cm^2 B) 319 cm^2 C) 324 cm^2 D) 72 cm^2

Evaluate the expression for the given replacement values.

24) $x - y + z$ for $x = 20$, $y = 10$, $z = 4$ 24) _____

A) 34 B) 14 C) 6 D) 15

SHORT ANSWER. **Show your work where appropriate.**

Write the phrase as a variable expression. Use x to represent "a number."

25) 9 less than 5 times a number 25) _____

26) 7 more than 8 times a number 26) _____

Fill in the blank with one of the words or phrases listed below.

place value	**whole numbers**	**perimeter**	**variable**
area	**natural numbers**	**exponent**	

27) The _____ are 0, 1, 2, 3, . . . 27) _____

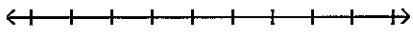
28) The _____ of a polygon is its distance around or the sum of the lengths of its sides. 28) _____

Represent the quantity by an integer.

29) 199 feet below sea level 29) _____

Graph the numbers on the number line.

30) −10, −8, −6, −4 30) _____



MULTIPLE CHOICE. **Choose the one alternative that best completes the statement or answers the question. If the correct answer is not there, choose "E" for "none of these".**

Insert < or > to make the statement true.

31) −30 _____ −19 31) _____

A) −30 > −19 B) −30 < −19

Simplify.

32) |−6| 32) _____

A) −6 B) 6 C) 12 D) 0

Find the opposite of the integer.

33) −10 33) _____

A) 10 B) 0 C) −10 D) $-\frac{1}{10}$

Add.

34) 12 + (−20) + 2 + (−20) + 18 + (−8) 34) _____

A) −80 B) −16 C) −20 D) 20

Solve.

35) The temperature at 1 p.m. on January 2 was −10° Fahrenheit. By 10 p.m. the temperature had risen 21 degrees. Find the temperature at 10 p.m. 35) _____

A) −11° B) −31° C) 11° D) 31°

Perform the indicated operation.

36) $-3 - 9$ 36) _____

A) 12 B) 6 C) −6 D) −12

Simplify.

37) $16 + (-8) - 18 - (-9)$ 37) _____

A) 17 B) 33 C) −19 D) −1

Solve.

38) Gina has \$286 in her checking account. She writes a check for \$37, makes a deposit for \$94, and then writes another check for \$171. Find the amount left in her account. (Write the amount as an integer.) 38) _____

A) 16 dollars B) −16 dollars C) −172 dollars D) 172 dollars

Find the quotient.

39) $-78 \div (-6)$ 39) _____

A) −13 B) 3 C) $\frac{1}{13}$ D) 13

Solve.

40) Ben lost \$270 on each of 6 consecutive days in the stock market. If he had \$15,083 before his loss, how much does he have after his loss? 40) _____

A) \$13,463 B) \$14,813 C) \$1620 D) \$16,703

Simplify.

41) $-8 + 30 \div (-2)$ 41) _____

A) 23 B) −11 C) −23 D) 11

42) $\frac{-102 - 68}{-17}$ 42) _____

A) 2 B) 10 C) −10 D) −17

43) $(-2)(7)^5 - (-7)(-7)$ 43) _____

A) 49 B) −33,614 C) −33,663 D) −33,565

44) $|6 - 11| \cdot (-16) \div (-4)$ 44) _____

A) −20 B) 320 C) −320 D) 20

Evaluate the expression for $x = -2$, $y = 3$, $z = -4$.

45) $(-4z)(-8x - 2y)$ 45) _____

A) −352 B) 160 C) −160 D) −320

Find the average of the list of numbers.

46) −15, 3, −8, 7, −9, 2, −1 46) _____

A) −2 B) 1 C) −3 D) −1

SHORT ANSWER. Show your work where appropriate.

Fill in the blank with one of the words or phrases listed below.

signed	**opposites**	**positive integers**
absolute value	**integers**	**negative integers**

47) Together, positive numbers, negative numbers, and 0 are called _____ numbers. 47) _____

48) The _____ of a number is that number's distance from 0 on the number line. 48) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. If the correct answer is not there, choose "E" for "none of these".

Simplify the expression by combining like terms.

49) $5x + 2 - 3x + 5$ 49) _____

A) $9x$ B) $2x + 7$ C) 9 D) $8x + 7$

Multiply.

50) $2(5x + 4)$ 50) _____

A) $18x$ B) $10x + 8$ C) $7x + 6$ D) $7x + 8$

51) $-(7x - 2)$ 51) _____

A) $-7x - 2$ B) $-7x + 2$ C) $7x - 2$ D) $14x$

Simplify the expression.

52) $-4(7x - 7) - 3x$ 52) _____

A) $-25x - 28$ B) $-31x - 28$ C) $-25x + 28$ D) $-31x + 28$

SHORT ANSWER. Show your work where appropriate.

Solve the equation.

53) $9w = -9 + 8w$ 53) _____

54) $-4s = -72$ 54) _____

55) $\frac{x}{4} - 5 = -11$ 55) _____

56) $4(4x - 2) + 50 = 11x + 2$ 56) _____

Write the sentence as an equation. Use x to represent "a number."

57) Six times a number amounts to 60. 57) _____

Solve.

58) Four times the sum of some number plus 3 is equal to 6 times the number minus 6. 58) _____

Fill in the blank with one of the words or phrases listed below.

variable	**simplified**	**numerical coefficient**	**equation**
terms	**combined**	**algebraic expression**	**solution**
like	**constant**	**evaluating the expression**	

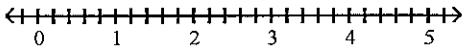
59) A letter used to represent a number is called a(n) _____. 59) _____

60) A(n) _____ of an equation is a value for the variable that makes an equation a true statement. 60) _____

61) A combination of operations on variables and numbers is called a(n) _____. 61) _____

Graph the fraction on a number line.

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



Simplify by dividing.

63) $\frac{-22}{1}$ 63) _____

64) $\frac{-3}{-3}$ 64) _____

Write the prime factorization of the number.

65) 792 65) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. If the correct answer is not there, choose "E" for "none of these".

Perform the indicated operation. Write the answer in simplest form.

66) $\frac{4}{7} \cdot \frac{7}{23}$ 66) _____

A) $\frac{92}{49}$ B) $\frac{27}{14}$ C) $\frac{11}{30}$ D) $\frac{4}{23}$

67) $\frac{a^4}{b^4} \cdot \frac{b^2}{a}$ 67) _____

A) $\frac{4}{b^2}$ B) $\frac{a^5}{b^6}$ C) $\frac{a^4}{b^2}$ D) $\frac{a^3}{b^2}$

68) $\frac{7}{15} \div \frac{7}{12}$ 68) _____

A) $3\frac{33}{49}$ B) $\frac{49}{180}$ C) $\frac{14}{27}$ D) $\frac{4}{5}$

69) $-\frac{1}{2} \div \frac{7}{13}$ 69) _____

A) $\frac{13}{14}$ B) $-\frac{13}{14}$ C) $-\frac{7}{26}$ D) $\frac{14}{13}$

Add or subtract as indicated. Write the answer in simplest form.

70) $\frac{8}{9} - \frac{2}{4}$ 70) _____

A) $\frac{2}{3}$ B) $\frac{7}{18}$ C) $\frac{14}{9}$ D) $\frac{1}{6}$

71) $\frac{7}{20} - \frac{5}{8}$ 71) _____

A) $-\frac{44}{160}$ B) $-\frac{11}{40}$ C) $\frac{13}{16}$ D) $-\frac{1}{96}$

Perform the indicated operations. Write the answer in simplest form.

72) $-\frac{1}{12} + \frac{5}{36} - \frac{1}{4}$ 72) _____

A) $\frac{1}{12}$ B) $-\frac{7}{36}$ C) $-\frac{5}{36}$ D) $\frac{7}{36}$

SHORT ANSWER. Show your work where appropriate.

Solve. Write the answer in simplest form.

73) $h - \frac{2}{3} = \frac{5}{6}$ 73) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. If the correct answer is not there, choose "E" for "none of these".

Simplify the complex fraction.

74) $\frac{\frac{1}{50}}{\frac{1}{40}}$ 74) _____

A) $\frac{1}{2000}$ B) $\frac{1}{45}$ C) $\frac{4}{5}$ D) $\frac{5}{4}$

Simplify.

75) $\frac{2}{3} \div \frac{1}{7} \cdot \frac{1}{4}$ 75) _____

A) $\frac{7}{6}$ B) $\frac{1}{42}$ C) $\frac{8}{21}$ D) $\frac{56}{3}$

SHORT ANSWER. Show your work where appropriate.

Solve the equation.

76) $-\frac{3}{7}y = \frac{1}{3}$ 76) _____

77) $\frac{1}{2} - \frac{x}{3} = \frac{17}{6}$ 77) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. If the correct answer is not there, choose "E" for "none of these".

Perform the indicated operation. Write the answer as a mixed number in simplest form.

78) $7\frac{1}{2} \cdot 1\frac{1}{3}$ 78) _____

A) 13 B) 10 C) 11 D) $7\frac{7}{6}$

79) $6 \div 2\frac{2}{7}$ 79) _____

A) $13\frac{5}{7}$ B) $2\frac{5}{8}$ C) $2\frac{5}{7}$ D) $13\frac{5}{8}$

Add or subtract as indicated. Write the answer as a mixed number in simplest form.

80) 80) _____

$$\begin{array}{r} 5\frac{4}{9} \\ 6\frac{1}{9} \\ +\ \frac{2}{3} \\ \hline \end{array}$$

A) $13\frac{2}{9}$ B) $12\frac{1}{2}$ C) $12\frac{2}{9}$ D) $11\frac{2}{9}$

81) 81) _____

$$\begin{array}{r} 6\frac{4}{9} \\ -\ 2\frac{1}{3} \\ \hline \end{array}$$

A) $-1\frac{8}{9}$ B) $4\frac{7}{9}$ C) $8\frac{1}{9}$ D) $4\frac{1}{9}$

Write the decimal as a fraction or mixed number in lowest terms.

82) 0.54 82) _____

A) $\frac{27}{500}$ B) $\frac{1}{2916}$ C) $\frac{27}{50}$ D) $\frac{1}{54}$

Insert <, >, or = between the pair of numbers to form a true statement.

83) 0.82 _____ 0.83 83) _____

A) > B) = C) <

Round the decimal to the given place value.

84) 19.8, nearest one 84) _____

A) 19.8 B) 20 C) 21 D) 19

85) 3.1555, nearest hundredth 85) _____

A) 3.26 B) 3.06 C) 3.16 D) 3.1555

Perform the indicated operation.

86) 86) _____

$$\begin{array}{r} 7.744 \\ 16.747 \\ +\ 169.480 \\ \hline \end{array}$$

A) 193.871 B) 193.861 C) 193.961 D) 193.971

87) 87) _____

$$\begin{array}{r} 7.24 \\ -\ 2.79 \\ \hline \end{array}$$

A) 4.55 B) 5.45 C) 4.45 D) 6

Simplify by combining like terms.

88) $27.3x - 12.5 - 11.9x + 27.1$ 88) _____

A) $15.4x + 14.6$ B) $16.4x + 14.6$ C) $15.4x + 15.6$ D) $30x$

Solve.

89) Tom bought a car part for $38.70. If he paid with two $20 bills, what was his change? 89) _____

A) $2.00 B) $2.30 C) $1.40 D) $1.30

Multiply.

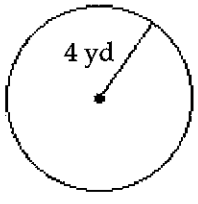
90) 90) _____

$$\begin{array}{r} 0.405 \\ \times\ 0.3 \\ \hline \end{array}$$

A) 0.001215 B) 12.15 C) 1.215 D) 0.1215

Find the circumference of the circle. Then use the approximation 3.14 for π and approximate the circumference.

91) 91) _____



A) 24.32 yd B) 12.16 yd C) 25.12 yd D) 12.56 yd

Solve.

92) The nutrition chart on a bag of flavored potato chips says that each serving contains 0.26 grams of cholesterol. The chart also says that there are 5 servings in the bag. How many grams of cholesterol are in the entire bag of potato chips? 92) _____

A) 1.3 g B) 0.76 g C) 1.35 g D) 1.4 g

Divide.

93) $-4.23 \div 15$ 93) _____

A) −0.282 B) −0.182 C) −0.0182 D) −0.0282

Solve.

94) In a track meet, Lauren runs 800 meters in 123.1 seconds. What was her average speed in meters per second? (Round to the nearest tenth.) 94) _____

A) 65 m/s B) 1.5 m/s C) 0.2 m/s D) 6.5 m/s

Perform the indicated operation. Then estimate to see whether the proposed result is reasonable.

95) 25.3×2.7 95) _____

A) 6.931 B) 6.831 C) 69.31 D) 68.31

Write the fraction as a decimal. Round to the nearest thousandth, if necessary.

96) $-\frac{19}{14}$ 96) _____

A) −4.667 B) −0.136 C) −1.357 D) −0.467

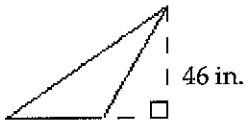
Insert <, >, or = between the pair of numbers to form a true statement.

97) $\frac{16}{3}$ _____ 5.332 97) _____

A) = B) < C) >

Find the area of the triangle or rectangle. Round to the nearest thousandth, if necessary.

98) 98) _____



35.5 in.

A) 1173 sq. in. B) 1633 sq. in. C) 816.5 sq. in. D) 1058 sq. in.

SHORT ANSWER. Show your work where appropriate.

Solve the equation.

99) $-5.8 = 13.7 - x$ 99) _____

100) $-0.7x + 1.15 = -0.4x + 3.85$ 100) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. If the correct answer is not there, choose "E" for "none of these".

Find the unit price.

101) $31.50 for 3 cassette tapes 101) _____

A) $15.75/cassette tape B) $10.90/cassette tape

C) $10.40/cassette tape D) $10.50/cassette tape

SHORT ANSWER. Show your work where appropriate.

Solve the proportion for the given variable.

102) $\frac{4}{x} = \frac{2}{\frac{1}{4}}$ 102) _____

103) $\frac{6}{x} = \frac{0.4}{3.2}$ 103) _____

104) $\frac{x}{5} = \frac{12}{30}$ 104) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. If the correct answer is not there, choose "E" for "none of these".

Solve.

105) The ratio of a quarterback's completed passes to attempted passes is 5 to 8. If he attempted 24 passes, find how many passes he completed. Round to the nearest whole number if necessary. 105) _____

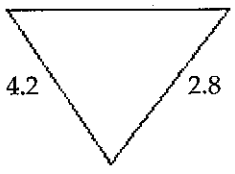
A) 3 passes B) 38 passes C) 8 passes D) 15 passes

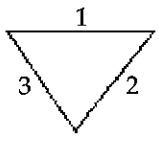
106) The ratio of a basketball player's completed free throws to attempted free throws is 5 to 8. If she completed 10 free throws, find how many free throws she attempted. Round to the nearest whole number if necessary. 106) _____

A) 2 free throws B) 16 free throws C) 6 free throws D) 5 free throws

Find the ratio of the corresponding sides of the given similar triangles. Write the ratio in simplest form.

107) 107) _____





A) $\frac{5}{7}$ B) $\frac{1}{2}$ C) $\frac{3}{2}$ D) $\frac{7}{5}$

Write the percent as a decimal.

108) 31.2% 108) _____

A) 0.0312 B) 31.2 C) 3.12 D) 0.312

109) 1.3% 109) _____

A) 0.013 B) 13.0 C) 0.13 D) 1.3

Write the decimal as a percent.

110) 2 110) _____

A) 0.02% B) 20% C) 0.2% D) 200%

111) 0.9251 111) _____

A) 0.9251% B) 9251% C) 9.251% D) 92.51%

Write the percent as a fraction or mixed number in simplest form.

112) 30% 112) _____

A) $\frac{3}{20}$ B) $\frac{3}{10}$ C) 3 D) $\frac{3}{5}$

Write the fraction or mixed number as a percent.

113) $\frac{51}{100}$ 113) _____

A) 5.1% B) 510% C) 51% D) 0.51%

Translate the question into an equation. Do not solve.

114) 89% of 81 is what number? 114) _____

A) $89\% \cdot x = 81$ B) $89\% \cdot 81 = x$ C) $89 \cdot 81 = x$ D) $89\% = 81 \cdot x$

Translate to an equation and solve.

115) What number is 46% of 24? 115) _____

A) 110.4 B) 11.04 C) 1104 D) 1.104

Translate the question into a proportion. Do not solve.

116) 67% of 15.9 is what number? 116) _____

A) $\frac{15.9}{67} = \frac{p}{100}$ B) $\frac{67}{15.9} = \frac{p}{100}$ C) $\frac{15.9}{b} = \frac{67}{100}$ D) $\frac{a}{15.9} = \frac{67}{100}$

Translate to a proportion and solve.

117) 293.7 is what percent of 33? 117) _____

A) 11.24% B) 890% C) 8.9% D) 1.12%

Solve.

118) An inspector found 30 defective calculators during an inspection. If this is 0.012% of the total number of calculators inspected, how many calculators were inspected? 118) _____

A) 2500 calculators B) 25,000 calculators

C) 3000 calculators D) 250,000 calculators

Solve. Round the answer to the nearest cent, if necessary.

119) A union contract calls for a 7.5% salary increase for all employees. Determine the increase for a worker who is currently making $28,170. 119) _____

A) $26,057.25 B) $21,127.50 C) $30,282.75 D) $2112.75

120) A union contract calls for a 5.1% salary increase for all employees. Determine the new salary for a worker who is currently making $38,920. 120) _____

A) $40,904.92 B) $38,971 C) $51 D) $1984.92

121) Last year the profit for a company was $43,000. This year's profit decreased by 4.6%. Find this year's profit. 121) _____

A) $41,022 B) $23,220 C) $1978 D) $19,780

Solve. Round to the nearest tenth, if necessary.

122) Find the amount of decrease and the percent decrease if the original amount is 540 and the new amount is -28,620. 122) _____

A) 29,160; 5395% B) 29,160; 5400% C) 29,160; 5500% D) 29,160; 5410%

Solve.

123) A coat has a purchase price of $42. If the sales tax on this purchase is $3.36, find the sales tax rate. 123) _____

A) 0.92% B) 8% C) 0.08% D) 0.074%

124) The sales tax on the purchase of a truck is $3265.98. If the tax rate is 8.7%, find the purchase price of the truck. 124) _____

A) $40,805.98 B) $32,659.80 C) $37,540.00 D) $1,226,048.89

125) A salesperson earned a commission of $5621 for selling $51,100 worth of books to various stores. Find the commission rate. 125) _____

A) 9.1% B) 1.1% C) 11% D) 0.9%

126) Find the sale price when the original price is $92.00 and the discount rate is 12%. 126) _____

A) $90.90 B) $80.96 C) $11.04 D) $1.10

127) A $310 camera is on sale at 5% off. Find the discount. 127) _____

A) $308.45 B) $15.50 C) $294.50 D) $1.55

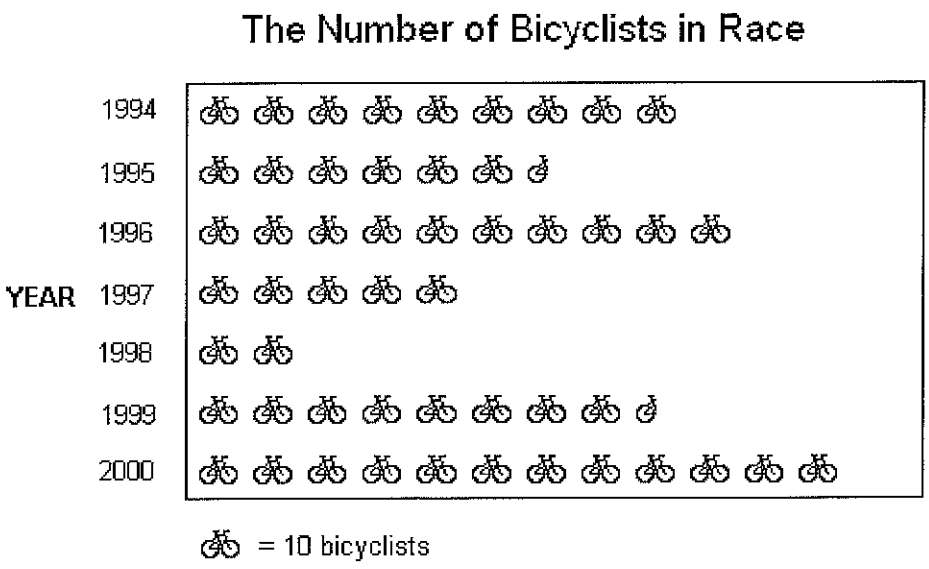
128) Find the simple interest when: Principal = $360, Rate = 3%, Time = 4 years. 128) _____

A) $10.80 B) $43.20 C) $108.00 D) $432.00

129) Find the simple interest when: Principal = $2616, Rate = 26%, Time = 20 months. 129) _____

A) $1133.60 B) $136,032.00 C) $13,603.20 D) $680.16

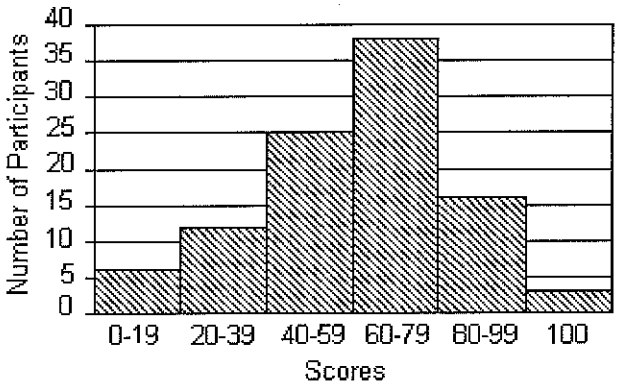
The pictograph shows the number of bicyclists who participated in the Labor Day weekend bicycle race for the years 1994–2000.



130) What was the least number of cyclists to participate in any one year? 130) _____

A) 50 cyclists B) 100 cyclists C) 20 cyclists D) 120 cyclists

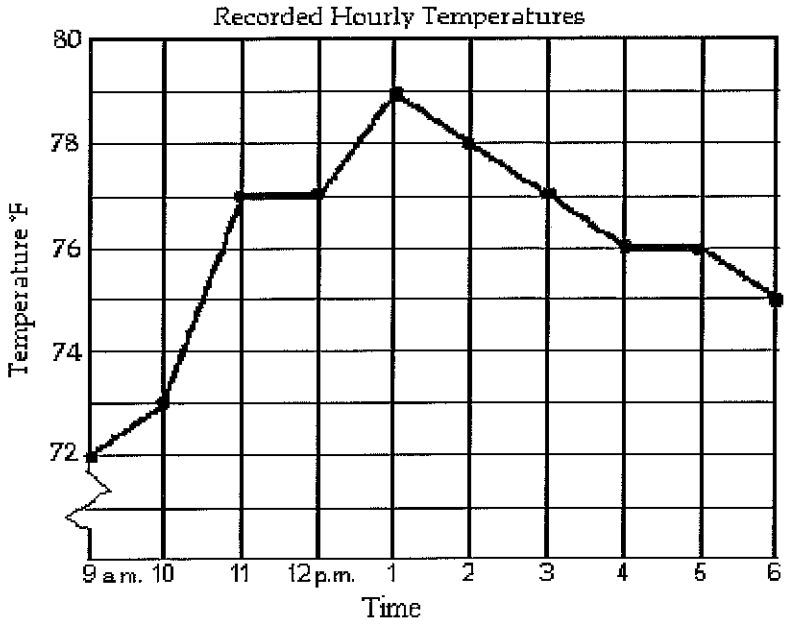
The histogram shows the scores of each participant in a game from a total of 100 participants.



131) How many participants scored 60–79? 131) _____

A) 16 participants B) 38 participants C) 3 participants D) 6 participants

The line graph shows the recorded hourly temperatures in degrees Fahrenheit at an airport.



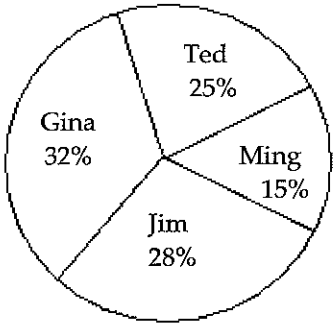
132) During which hour did the temperature increase the most? 132) _____

A) 12 p.m. to 1 p.m. B) 10 a.m. to 11 a.m.

C) 9 a.m. to 10 a.m. D) 1 p.m. to 2 p.m.

The circle graph shows the results of the student council presidential election and the percent of the vote each person received.

133) Student Council President 133) _____



600 total votes

How many votes did Gina get?

A) 192 B) 150 C) 168 D) 90

Find the mean. If necessary, round to one decimal place.

134) 1.1, 0.5, 0.7, 1.1, 0.3, 1.3, 0.3, 1.4, 1.8 134) _____

A) 0.8 B) 1 C) 0.9 D) 8.5

Find the median. If necessary, round to one decimal place.

135) 6, 2, 24, 17, 26, 49, 35, 32 135) _____

A) 23.5 B) 24 C) 25 D) 26

136) 5, 3, 29, 13, 45, 31, 30 136) _____

A) 13 B) 30 C) 22.8 D) 29

Find the mode or modes (if any).

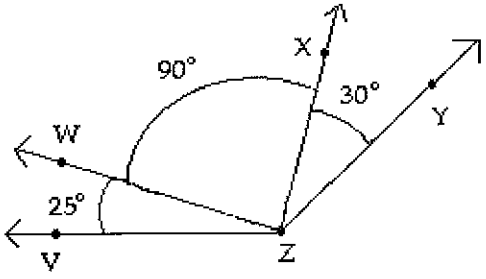
137) 5, 9, 64, 3, 2, 8, 63, 1, 4, 16 137) _____

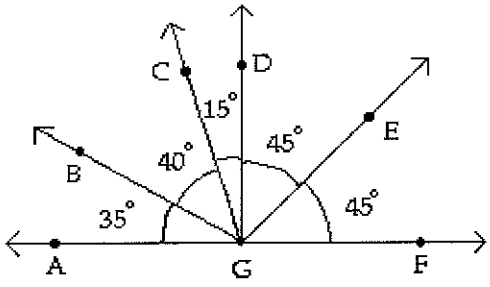
A) 8 B) 16.9 C) 9 D) no mode

138) 20, 25, 46, 25, 49, 25, 49 138) _____

A) 49 B) 34.1 C) 46 D) 25

Find the measure of the angle.





139) ∠XZV 139) _____

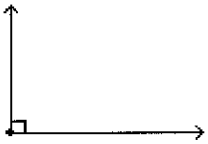
A) 105° B) 115° C) 125° D) 120°

SHORT ANSWER. Show your work where appropriate.

Fill in the blank.

140) _____ angle measures between 0° and 90°. 140) _____

Classify the angle as acute, right, obtuse, or straight.

141) P  141) _____

Find the indicated angle.

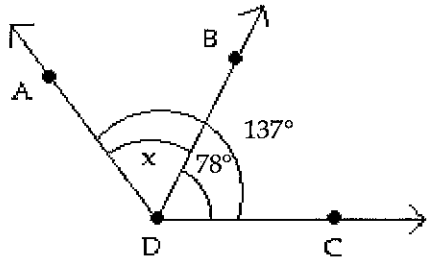
142) Find the supplement of 83°. 142) _____

143) Find the complement of 82°. 143) _____

MULTIPLE CHOICE. **Choose the one alternative that best completes the statement or answers the question. If the correct answer is not there, choose "E" for "none of these".**

Find the measure of the unknown angle. Figure is not drawn to scale.

144) 144) _____



Find the measure of ∠x.

A) 43° B) 215° C) 47° D) 59°

Convert as indicated.

145) 9300 mm to meters 145) _____

A) 93 m B) 930 m C) 9.3 m D) 0.93 m

146) 30 m to centimeters 146) _____

A) 3000 cm B) 0.3 cm C) 3.0 cm D) 300 cm

147) 19 mg to grams 147) _____

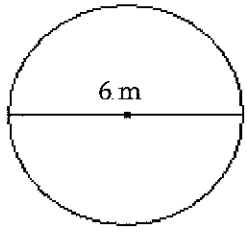
A) 0.19 g B) 0.019 g C) 19,000 g D) 1900 g

148) 2.53 kg to grams 148) _____

A) 0.00253 g B) 2530 g C) 0.0253 g D) 253 g

Find the area of the geometric figure.

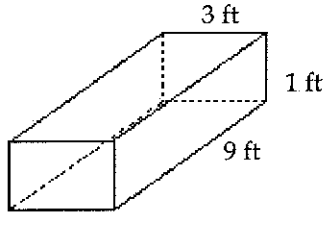
149) 149) _____



Use 3.14 for π. Round to the nearest hundredth, if necessary.

A) 37.68 sq. m B) 56.52 sq. m C) 113.04 sq. m D) 28.26 sq. m

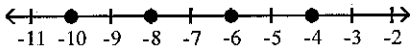
Find the volume of the solid.



150) 150) _____

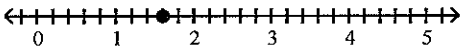
A) 13 cu. ft B) 3 cu. ft C) 81 cu. ft D) 27 cu. ft

1) hundred-thousands
2) One hundred thirty-five thousand, sixty
3) C
4) A
5) B
6) C
7) 320
8) 26,000,000
9) A
10) C
11) B
12) B
13) A
14) A
15) undefined
16) 0
17) C
18) C
19) $7^2 \cdot 4^4$
20) A
21) A
22) C
23) C
24) B
25) $5x - 9$
26) $8x + 7$
27) whole numbers
28) perimeter
29) -199
30)



31) B
32) B
33) A
34) B
35) C
36) D
37) D
38) D
39) D
40) A
41) C
42) B
43) C
44) D
45) B
46) C
47) signed

48) absolute value
49) B
50) B
51) B
52) D
53) –9
54) 18
55) –24
56) –8
57) $6x = 60$
58) 9
59) variable
60) solution
61) algebraic expression
62)



63) –22
64) 1
65) $2^3 \cdot 3^2 \cdot 11$
66) D
67) D
68) D
69) B
70) B
71) B
72) B
73) $\frac{3}{2}$
74) C
75) A
76) $-\frac{7}{9}$
77) – 7
78) B
79) B
80) C
81) D
82) C
83) C
84) B
85) C
86) D
87) C
88) A
89) D
90) D
91) C
92) A

93) A
94) D
95) D
96) C
97) C
98) C
99) 19.5
100) -9
101) D
102) $\frac{1}{2}$
103) 48
104) 2
105) D
106) B
107) D
108) D
109) A
110) D
111) D
112) B
113) C
114) B
115) B
116) D
117) B
118) D
119) D
120) A
121) A
122) B
123) B
124) C
125) C
126) B
127) B
128) B
129) A
130) C
131) B
132) B
133) A
134) C
135) C
136) D
137) D
138) D
139) B
140) An acute
141) Right

142) 97°
143) 8°
144) D
145) C
146) A
147) B
148) B
149) D
150) D