Exam

Name_____

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

1) Empty   1) _____

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

2) Name the place value of the digit 3 in the number 3,048.   2) _____
   A) thousands   B) ten-thousands
   C) hundreds   D) hundred-thousands

3) Name the place value of the digit 4 in the number 462,937.   3) _____
   A) hundred-thousands   B) millions
   C) ten-thousands   D) thousands

4) Name the place value of the digit 1 in the number 52,123,708,205.   4) _____
   A) hundred-billions   B) ten-millions
   C) hundred-millions   D) hundred-thousands

5) Determine the place value of the underlined digit.   5) _____
     17,483
   A) hundred-thousands   B) thousands
   C) ten-thousands   D) hundreds

6) Determine the place value of the underlined digit.   6) _____
   The number of U.S. travelers abroad in a recent year was 11,299,890.
   A) billions   B) thousands   C) millions   D) ten-millions

7) Determine the place value of the underlined digit.   7) _____
   For a recent year, the total number of U.S. $1 bills in circulation was 7,653,418,440.
   A) hundred-millions   B) hundred-thousands
   C) ten-millions   D) ten-thousands

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

8) Convert 792 to expanded form.   8) _____

1

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

9) Convert 10,875 to expanded form.   9) _____
   A) 1 ten-thousand + 8 hundreds + 7 tens + 5 ones
   B) 5 ten-thousands + 7 thousands + 8 hundreds + 1 ten
   C) 5 ten-thousands + 7 thousands + 8 hundreds + 1 one
   D) 1 thousand + 8 hundreds + 7 tens + 5 ones

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

10) Convert to standard form: 6 thousands + 7 hundreds + 2 ones.   10) _____

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

11) Convert to standard form: 3 ten-thousands + 1 thousand + 8 ones.   11) _____
    A) 3,108   B) 318   C) 31,800   D) 31,008

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

12) Write the number in words: 9,819.   12) _____

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

13) Write the number in words: 32,458.   13) _____
    A) Thirty thousand, two thousand four hundred fifty-eight
    B) Three hundred two thousand, four hundred fifty-eight
    C) Three thousand, two hundred four, fifty-eight
    D) Thirty-two thousand, four hundred fifty-eight

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

14) Write the number in words: 900,408.   14) _____

15) Convert to standard form: eight thousand, four.   15) _____

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

16) Convert to standard form: four hundred twenty-eight thousand.   16) _____
    A) 4,028   B) 4,002,800   C) 428,000   D) 42,800

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

17) Convert to standard form: one million, nine hundred eighty thousand, two   17) _____
    hundred seventy.

18) Graph the numbers on the number line.   18) _____
    a. 4   b. 12   c. 2   d. 7

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

19) On a number line, what number is 3 units to the right of 4?   19) _____
    A) 7   B) 1   C) 8   D) 6

20) On a number line, what number is 5 units to the left of 13?   20) _____
    A) 9   B) 8   C) 19   D) 18

21) Translate the inequality to words: $15 > 12$ 21) _____
    A) 15 is less than 12   B) 15 is equal to 12
    C) 12 is greater than 15   D) 15 is greater than 12

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

22) Fill in the blank with $<$ or $>$.   4 ___ 9   22) _____

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

23) Fill in the blank with $<$ or $>$.   70 ___ 89   23) _____
    A) $<$ B) $>$

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

24) Identify the addends and the sum: $2 + 8 = 10$.   24) _____

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

25) Add.

$$
\begin{array}{r}
30 \\
5 \\
+\ 10 \\
\hline
\end{array}
$$

25) _____

    A) 45   B) 55   C) 35   D) 50

26) Add: $108 + 13 + 3$.

26) _____

    A) 134   B) 119   C) 114   D) 124

27) Add.

$$
\begin{array}{r}
84 \\
+\ 27 \\
\hline
\end{array}
$$

27) _____

    A) 111   B) 102   C) 112   D) 101

28) Add. $371 + 276$

28) _____

    A) 547   B) 646   C) 648   D) 647

29) Add. $5760 + 10{,}355$

29) _____

    A) 15,015   B) 16,115   C) 16,015   D) 15,115

30) Add. $10{,}291 + 28{,}753 + 4{,}890$

30) _____

    A) 43,934   B) 39,533   C) 43,944   D) 43,834

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

31) Rewrite using the commutative property of addition.

$2 + 3 = \underline{\quad} + \underline{\quad}$

31) _____

32) Rewrite using the associative property of addition by inserting a pair of parentheses.

$(15 + 8) + 7 = 15 + 8 + 7$

32) _____

33) Simplify using the addition property of zero: $490 + 0$.

33) _____

34) Identify the minuend, subtrahend, and the difference: $6 - 4 = 2$.

34) _____

35) Subtract: $8 - 2$.

35) _____

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

36) Subtract.   36) _____
      87
   - 36
   _____

   A) 61   B) 51   C) 55   D) 41

37) Subtract: 14,709 – 4705.   37) _____
      A) 1004   B) 19,414   C) 32,341   D) 10,004

38) Subtract.   91 – 12   38) _____
      A) 89   B) 80   C) 70   D) 79

39) Subtract.   710 – 159   39) _____
      A) 651   B) 550   C) 551   D) 560

40) Subtract. 9036 – 4877   40) _____
      A) 5041   B) 4041   C) 4159   D) 5259

41) Write an English phrase for the mathematical statement.   41) _____
      165 – 45

      A) The difference of 45 and 165   B) 45 decreased by 165
      C) 165 less than 45   D) Subtract 45 from 165

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

42) Translate the English phrase into a mathematical statement and simplify.   42) _____
      44 more than 5

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

43) Translate the English phrase into a mathematical statement and simplify.   43) _____
      1,361 increased by 40

      A) $1,361 + 40 = 1,401$ B) $1,361 \div 40 = 34$
      C) $1,361^{40} = 54,440$ D) $1,361 \cdot 40 = 54,440$

5

44) Translate the English phrase into a mathematical statement and simplify.   44) _____
      84 decreased by 2

      A) 84 - 2 = 81   B) 84 + 2 = 86   C) 84 - 2 = 82   D) 84 - 2 = 83

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

45) Translate the English phrase into a mathematical statement and simplify.   45) _____
      64 less than 1,030

46) Translate the English phrase into a mathematical statement and simplify.   46) _____
      The difference of 17 and 6

47) Translate the English phrase into a mathematical statement and simplify.   47) _____
      The sum of 364 and 65

48) Mt. Haleakala in Hawaii is 10,032 feet high. Mt. Fuji in Japan is 12,395 feet   48) _____
      high. How much higher is Mt. Fuji than Mt. Haleakala?

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

49) Kelly will need 84 paving stones to construct a pathway in the garden. If she has 30   49) _____
      paving stones in the shed, how many more will she need to purchase?
      A) 54 paving stones   B) 51 paving stones
      C) 53 paving stones   D) 50 paving stones

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

50) A $50 bill was used to purchase $40 worth of gasoline. Find the amount of   50) _____
      change received.

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

51) An employee earning $35,000 a year had his yearly salary increased by $2,500. What is   51) _____
      his new salary?
      A) $37,500   B) $60,000   C) $35,250   D) $37,000
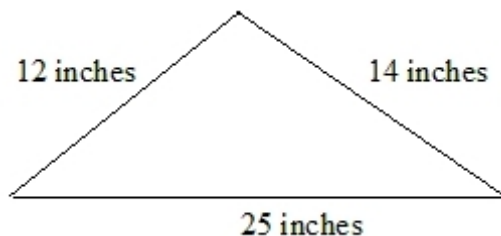
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

52) The Atlantic Ocean covers 81,663,000 square kilometers, while the Arctic Ocean covers 14,350,000 square kilometers.
   a. What is the difference between the area of the Atlantic Ocean versus the Arctic Ocean?
   b. What is the total number of square kilometers covered by the two oceans?

52) _____

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

53) Jill has two children attending college. Her son attended a community college where the yearly tuition and fees came to $2,800. Her daughter attended a private university where the yearly tuition and fees totaled $31,590. If Jill paid the full amount for both children to go to school, what was her total expense for tuition and fees for 1 year?
   A) $33,390   B) $34,490   C) $34,390   D) $34,290

53) _____

54) When Al and Jim leave the parking lot, Al travels east and Jim travels west. After 3 hours, Al has gone 168 miles and Jim has gone 87 miles. How far apart are they?
   A) They are 255 miles apart.   B) They are 258 miles apart.
   C) They are 84 miles apart.   D) They are 81 miles apart.
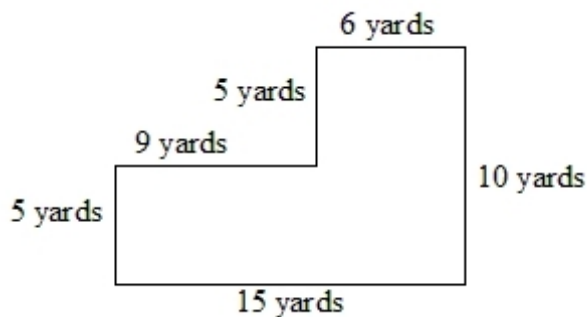
54) _____

55) Find the perimeter.

12 inches   14 inches

25 inches

   A) 50 inches   B) 52 inches   C) 53 inches   D) 51 inches

55) _____

7

56) Find the perimeter.

6 yards

5 yards

9 yards

10 yards

5 yards

15 yards

56) _____

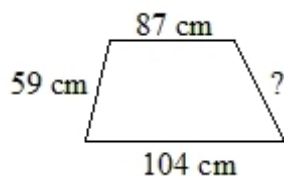A) 40 yards   B) 50 yards   C) 55 yards   D) 45 yards

57) The perimeter of the figure is 315 cm. Find the missing length.

87 cm

59 cm

?

104 cm

57) _____

A) 50 cm   B) 65 cm   C) 60 cm   D) 70 cm

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

58) Round to the tens place. 457

58) _____

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

59) Round to the hundreds place. 9,962
   A) 10,000   B) 9,900   C) 9,960   D) 10,100

59) _____

60) Round to the hundreds place. 7,138
   A) 7,140   B) 7,200   C) 7,100   D) 7,000

60) _____

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

61) Round to the thousands place. 26,591

61) _____

8

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

62) Round to the thousands place. 838,516
    A) 830,000   B) 839,000   C) 840,000   D) 838,000

62) _____

63) Round to the ten-thousands place. 414,471
    A) 410,000   B) 420,000   C) 415,000   D) 414,000

63) _____

64) A book contains 12,591 words. Round this number to the thousands place.
    A) 10,000 words   B) 12,600 words
    C) 12,000 words   D) 13,000 words

64) _____

65) Estimate the sum by first rounding each number to the nearest ten.

$$\begin{array}{r} 43 \\ 31 \\ + 65 \\ \hline \end{array}$$

    A) 120   B) 140   C) 150   D) 130

65) _____

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

66) Estimate the difference by first rounding each number to the nearest hundred.

$$\begin{array}{r} 809 \\ - \ 121 \\ \hline \end{array}$$

66) _____

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

67) Estimate the difference by first rounding each number to the nearest hundred.

$$\begin{array}{r} 578 \\ - \ 152 \\ \hline \end{array}$$

    A) 500   B) 400   C) 420   D) 430

67) _____

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

68) In 2003, the population of a certain region was 29,866. By 2004, the population increased to 32,122. Round each value to the nearest thousand to estimate how many more people lived in the region in 2004.

68) _____

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

69) Round the revenues shown in the table to the nearest hundred-thousand to estimate the total revenue for the years 2000 through 2004.

Year	Revenue
2001	$1,704,364
2002	$1,248,100
2003	$1,689,472
2004	$1,880,219

69) _____

A) $6,600,000   B) $6,3400,000   C) $6,500,000   D) $6,400,000

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

70) Determine the year with the greatest revenue. Round this revenue to the nearest hundred-thousand.

Year	Revenue
2001	$1,704,364
2002	$1,248,100
2003	$1,689,472
2004	$1,880,219

70) _____

71) Determine the year with the least revenue. Round this revenue to the nearest hundred-thousand.

Year	Revenue
2001	$1,704,364
2002	$1,248,100
2003	$1,689,472
2004	$1,880,219

71) _____

72) Write the repeated addition as a multiplication and simplify.
$$4 + 4 + 4 + 4 + 4 + 4$$

72) _____

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

73) Identify the factors and the product.
$$33 \times 9 = 297$$

73) _____

A) factors: 9, 297; product: 33   B) factors: 33, 297; product 9
C) factors: 33, 9; product: 297   D) factor: 33; product: 9

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

74) Identify the factors and the product.   74) _____

$1 \cdot 4 \cdot 5 = 20$

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

75) Which property is illustrated by the following statement?   75) _____

$8 \cdot 1 = 8$

A) Multiplication property of 1
B) Commutative property of multiplication
C) Multiplication property of 0

76) Which property is illustrated by the following statement?   76) _____

$13 \cdot 20 = 20 \cdot 13$

A) Distributive property of multiplication over addition
B) Associative property of multiplication
C) Commutative property of multiplication

77) Which property is illustrated by the following statement?   77) _____

$13(8 + 16) = 13 \cdot 8 + 13 \cdot 16$

A) Distributive property of multiplication over addition
B) Commutative property of multiplication
C) Associative property of multiplication

78) Which property is illustrated by the following statement?   78) _____

$(3 \cdot 2) \cdot 15 = 3 \cdot (2 \cdot 15)$

A) Commutative property of multiplication
B) Distributive property of multiplication over addition
C) Associative property of multiplication

79) Which property is illustrated by the following statement?   79) _____

$18 \cdot 0 = 0$

A) Multiplication property of 0
B) Commutative property of multiplication
C) Multiplication property of 1

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

80) Use the indicated property to rewrite the expression.

      $15 \cdot 13$;   commutative property of multiplication

80) _____

81) Use the indicated property to rewrite the expression.

      $(11 \cdot 0) \cdot 5$;   associative property of multiplication

81) _____

82) Use the indicated property to rewrite the expression.

      $6(14 + 10)$;   distributive property

82) _____

83) Multiply.

      41
    $\times\ 2$

83) _____

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

84) Multiply.

     630
   $\times\ 8$

   A) 4,840   B) 5,040   C) 504   D) 484

84) _____

85) Multiply.

     3017
   $\times\ \ 7$

   A) 2219   B) 210,749   C) 21,119   D) 21,749

85) _____

86) Multiply.

     (98,001)(7)

   A) 6,867   B) 6,860,007   C) 686,007   D) 68,607

86) _____

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

87) Multiply: $42 \cdot 63$.

87) _____

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

88) Multiply.   88) _____

$$\begin{array}{r} 231 \\ \times\ 146 \\ \hline \end{array}$$

    A) 33,726   B) 2126   C) 32,536   D) 2541

89) Multiply.   89) _____

$$\begin{array}{r} 4623 \\ \times\ 7015 \\ \hline \end{array}$$

    A) 32,330,345   B) 31,330,345   C) 32,430,345   D) 31,430,345

90) Multiply: 9,000 · 400.   90) _____
    A) 36,000   B) 3,600,000   C) 360,000   D) 36,000,000

91) Multiply.   91) _____

$$\begin{array}{r} 40,000 \\ \times\ \ \ 5,000 \\ \hline \end{array}$$

    A) 20,000,000   B) 200,000,000
    C) 2,000,000   D) 2,000,000,000

92) Estimate the product by first rounding each number to nearest ten thousand.   92) _____
    31,355 · 46,609

    A) 15,000,000   B) 1,500,000,000
    C) 150,000,000   D) 1,457,000,000

93) A local high school must purchase a set of 68 textbooks. If each textbook costs $128,   93) _____
    estimate the total cost by rounding the numbers to the tens place.
    A) $8,700   B) $8,704   C) $9,100   D) $8,840

94) A fuel efficient vehicle gets 51 miles per gal (mpg) on the highway. How many miles   94) _____
    can it go on 28 gal of gas?

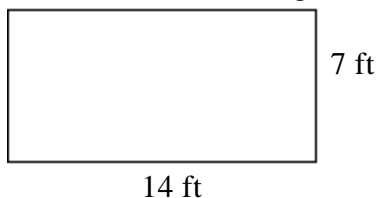   A) 79 mi   B) 168 mi   C) 510 mi   D) 1,428 mi

95) An ounce of a certain dark chocolate bar contains 17 grams of fat. If Angela eats 3   95) _____
ounces of the chocolate a day for 5 days, how many grams of fat will she ingest?
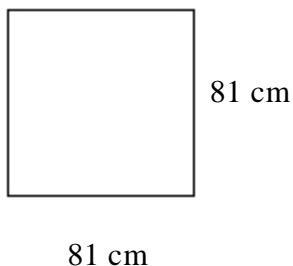   A) 255 grams   B) 245 grams   C) 265 grams   D) 275 grams

96) A store manager has 15 employees who work an average of 35 hr per week. How many   96) _____
hours of work does the manager have to schedule each week?
    A) 525 hr   B) 120 hr   C) 210 hr   D) 50 hr

97) Find the area of the rectangle.   97) _____

7 ft

14 ft

    A) 42 ft^2 B) 21 ft^2 C) 98 ft^2 D) 49 ft^2

98) Find the area.   98) _____

81 cm

81 cm

    A) 13,122 cm^2 B) 6,561 cm^2 C) 162 cm^2 D) 324 cm^2

99) A rectangular patio has 78 rows of tile with 45 tiles in each row. How many tiles total   99) _____
are there in the patio?
    A) There are 3,510 tiles.   B) There are 3,520 tiles.
    C) There are 3,530 tiles.   D) There are 3,500 tiles.

100) To carpet a rectangular room, John must find the area of the floor. If the dimensions of   100) _____
the room are 12 yd by 26 yd, how much carpeting does he need?

    A) 312 yd^2 B) 38 yd^2 C) 350 yd^2 D) 76 yd^2

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

101) Simplify the expression. Then identify the dividend, divisor, and quotient.   101) _____

   $63 \div 9$

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

102) Simplify the expression. Then identify the dividend, divisor, and quotient.   102) ____

   $\dfrac{20}{4}$

   A) 5; the dividend is 4; the divisor is 20; the quotient is 5
   B) 4; the dividend is 4; the divisor is 4; the quotient is 4
   C) 5; the dividend is 20; the divisor is 4; the quotient is 5
   D) 4; the dividend is 20; the divisor is 4; the quotient is 4

103) Use the properties of division to simplify the expression, if possible.   103) ____
   $10 \div 1$
   A) 10   B) 0   C) 1   D) undefined

104) Use the properties of division to simplify the expression, if possible.   104) ____
   $\dfrac{0}{14}$
   A) 0   B) 1   C) undefined   D) 14

105) Use the properties of division to simplify the expression, if possible.   105) ____
   $\dfrac{16}{0}$
   A) 1   B) undefined   C) 16   D) 0

106) Use the properties of division to simplify the expression, if possible.   106) ____
   $18 \div 18$
   A) 1   B) undefined   C) 0   D) 18

107) Divide. $6\overline{)258}$ 107) ____
   A) 42   B) 41   C) 44   D) 43

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

108) Divide. $\dfrac{510}{2}$

108) _____

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

109) Divide. $6,032 \div 8$

A) 754 B) 854 C) 744 D) 764

109) ____

110) Check the division problem. If it does not check, find the correct answer.

$957 \div 8 = 119$

A) Correct B) Incorrect; 119 R4
C) Incorrect; 119 R6 D) Incorrect; 119 R5

110) ____

111) Check the division problem. If it does not check, find the correct answer.

$$\begin{array}{r} 124 \text{ R2} \\ 3\overline{)380} \end{array}$$

A) Incorrect; 126 R2 B) Correct.
C) Incorrect; 123 R2 D) Incorrect; 124 R1

111) ____

112) Divide.

$43 \div 5$

A) 7 R8 B) 7 R3 C) 8 R3 D) 8 R8

112) ____

113) Divide.

$8\overline{)65}$

A) 7 R1 B) 8 R9 C) 8 R1 D) 7 R9

113) ____

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

114) Divide. $\dfrac{515}{9}$

114) _____

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

115) Divide. $5,500 \div 9$

A) 611 R2 B) 621 R2 C) 621 D) 611 R1

115) ____

116) Divide. $2\overline{)1301}$ 116) ____

    A) 651   B) 650 R1   C) 649 R1   D) 649 R3

117) Divide. $9{,}804 \div 11$ 117) ____

    A) 901 R4   B) 891 R3   C) 901   D) 891 R4

118) Divide. $\dfrac{9{,}328}{53}$ 118) ____

    A) 166   B) 166 R1   C) 176   D) 186

119) Divide. $206\overline{)69{,}506}$ 119) ____

    A) 335 R96   B) 337 R84   C) 337 R74   D) 335 R86

120) Divide. $66{,}223 \div 244$ 120) ____

    A) 271 R343   B) 271 R99   C) 270 R343   D) 270 R99

121) For the English sentence below, write a mathematical expression and simplify.   121) ____
      Find the quotient of 288 and 96.

    A) $288 \div 96$; 2   B) $96 \div 288$; 2   C) $96 \div 288$; 3   D) $288 \div 96$; 3

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

122) For the English sentence below, write a mathematical expression and simplify.   122) _____
      Divide 2 into 174.

123) For the English sentence below, write a mathematical expression and simplify.   123) _____
      Divide 802 by 39.

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

124) The math department has $300 to spend on a set of calculators. If the calculators cost   124) ____
      $32 each, how many calculators can the department purchase, and how much money
      will be left over?
    A) 9 calculators; $12 left over   B) 8 calculators; $12 left over
    C) 9 calculators; $2 left over   D) 8 calculators; $2 left over

125) A wedding reception is planned to take place in the fellowship hall of a church. The bride anticipates 242 guests, and each table will seat 9 people. How many tables should be set up for the reception to accommodate all of the guests? How many seats will be left unoccupied?

    A) 27 tables; 1 unoccupied seats   B) 26 tables; 17 unoccupied seats

    C) 26 tables; 8 unoccupied seats   D) 25 tables; 17 unoccupied seats

125) _____

126) An inheritance of $41,103 is to be equally shared by 9 people. How much money will each person receive?

    A) Each person will receive $4,567.   B) Each person will receive $4,557.

    C) Each person will receive $4,577.   D) Each person will receive $4,667.

126) _____

127) A couple traveled at an average speed of 56 mph for a cross-country trip. If the couple drove 1,232 miles, how many hours was the trip?

    A) 21 hours   B) 24 hours   C) 22 hours   D) 23 hours

127) _____

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

128) Bob drove 488 miles in 8 hours. Find Bob's average speed (in miles per hour).   128) _____

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

129) Write an exponential expression with 7 as the base and 2 as the exponent.   129) _____

    A) $2 \cdot 7$ B) 7^2 C) $7 + 2$ D) 2^7

130) Write the repeated multiplication in exponential form. Do not simplify.   130) _____

    $4 \cdot 4 \cdot 4 \cdot 4 \cdot 4$

    A) $4 \cdot 5$ B) 5^4 C) 4^4 D) 4^5

131) Write the repeated multiplication in exponential form. Do not simplify.   131) _____

    $7 \cdot 7 \cdot 7 \cdot 7 \cdot 5 \cdot 5 \cdot 5$

    A) $7^4 5^4$ B) $7^4 5^3$ C) $4(7) \cdot 3(5)$ D) $7^3 5^4$

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

132) Expand the exponential expression as a repeated multiplication. Do not simplify.   132) _____

    4^7

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

133) Evaluate. 5^3 133) ____
     A) 243   B) 125   C) 1   D) 15

134) Evaluate: 13^2 134) ____
     A) 26   B) 169   C) 15   D) 27

135) Evaluate. 1^3 135) ____
     A) 4   B) 3   C) 0   D) 1

136) Evaluate. 10^5 136) ____
     A) 10,000   B) 1,000,000   C) 100,000   D) 50

137) Evaluate. $\sqrt{64}$ 137) ____
     A) 8   B) 64   C) 1   D) 4

138) Evaluate: $\sqrt{9}$ 138) ____
     A) 2   B) 3   C) 6   D) 9

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

139) Evaluate: $\sqrt{0}$ 139) _____

140) Simplify. $6 + 5 \cdot 3$ 140) _____

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

141) Simplify. $10 - 3^2$ 141) ____
     A) 14   B) 4   C) 1   D) 49

142) Simplify. $(7 - 4)^2$ 142) ____
     A) 33   B) 9   C) 65   D) 6

143) Simplify. $80 \div 5 \div 2$ 143) ____
     A) 10   B) 8   C) 9   D) 11

144) Simplify. 15 - (5 + 8)   144) _____

    A) 18   B) 19   C) 3   D) 2

145) Simplify. $10 \div 5 \cdot \sqrt{25}$ 145) _____

    A) $\dfrac{2}{25}$ B) $\dfrac{2}{125}$ C) 10   D) 50

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

    146) Simplify. $9^2 - 2^2$ 146) _____

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

    147) Simplify. $630 \div 9 \cdot 7$ 147) _____

        A) 490   B) 10   C) 70   D) 90

    148) Simplify. 12 - 2(8 - 3)   148) _____

        A) 50   B) 16   C) 10   D) 2

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

    149) Simplify. $\dfrac{67 - 19}{5^2 - 9}$ 149) _____

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

    150) Simplify. $70 - (30 \div 5) + 8$ 150) _____

        A) 84   B) 16   C) 72   D) 56

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

    151) Evaluate. $(17 - 7) - (15 - \sqrt{49})$ 151) _____

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

152) Simplify. $80 \div (8^2 - 6 \cdot 10)^2$ 152) _____
     A) 20   B) 40   C) 5   D) 10

153) Simplify. $53 - 5(\sqrt{49} - 4)^2$ 153) _____
     A) 38   B) 172   C) 39   D) 8

154) Simplify. $10^2 - 2[14 - (7 - 2)]$ 154) _____
     A) 90   B) 10   C) 82   D) 162

155) Simplify. $4\{31 - [5^2 - (5 - 2)]\}$ 155) _____
     A) 36   B) 4   C) 52   D) 102

156) Evaluate the following expression when $x = 18$ and $w = 16$.   156) _____
     $7w - 5x$
     A) 112   B) 46   C) 2   D) 22

157) Evaluate the following expression when $x = 17$, $y = 3$, and $z = 28$.   157) _____
     $(z - x - y)^2$
     A) 64   B) 196   C) 588   D) 486

158) Paul purchased a sofa for $1130. He paid $350 at the time of purchase and then paid   158) _____
     off the rest in equal monthly payments over 1 year. How much was his monthly
     payment?
     A) $67   B) $55   C) $61   D) $65

159) Phil wants to fence off his rectangular yard. If the yard is 65 feet by 80 feet, and   159) _____
     fencing costs $6 per foot, how much will it cost Phil to fence the yard?
     A) It will cost $31,200.   B) It will cost $870.
     C) It will cost $15,600.   D) It will cost $1740.

160) Find the cost to carpet the room whose dimensions are shown in the figure if the cost   160) _____
for carpeting and installation is $47 per square yard.

4 yd

8 yd

A) The cost is $564.   B) The cost is $1,504.
C) The cost is $1,128.   D) The cost is $752.

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

161) The balance in Joe's checking account is $382. If he writes checks for $91, $57,   161) _____
and $106, how much will be left over?

162) Tickets to a theater production cost $17 for children and $30 for adults. How   162) _____
much money is required to buy tickets for 41 children and 5 adults?

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

163) A farmer wishes to place 3572 eggs in containers holding 12 eggs each. How many   163) _____
containers will be filled completely, and how many eggs will be left over?
    A) 296 containers will be filled completely with 6 eggs left over.
    B) 297 containers will be filled completely with 6 eggs left over.
    C) 296 containers will be filled completely with 8 eggs left over.
    D) 297 containers will be filled completely with 8 eggs left over.

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

164) Ella pays for a grocery bill of $175 with $20 bills.   164) _____
    a. How many bills must she use?
    b. How much change will she receive?

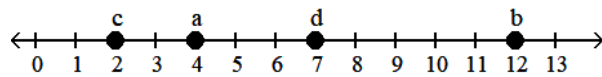165) Find the mean (average).   1, 2, 6, 10, 11   165) _____

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

166) A student received test scores of 82%, 94%, 89%, and 91%. What is the student's test average?

    A) 88%   B) 90%   C) 89%   D) 356%

166) ____

167) Jake's commute time to work varies from day to day. In a one-week period, he spent 17 minutes, 15 minutes, 29 minutes, 25 minutes, and 24 minutes commuting to work. What is Jake's average commute time to work in a day?

    A) 23 minutes   B) 110 minutes   C) 16 minutes   D) 22 minutes

167) ____

1)

2) A

3) A

4) C

5) C

6) C

7) D

8) 7 hundreds + 9 tens + 2 ones

9) A

10) 6,702

11) D

12) nine thousand, eight hundred nineteen

13) D

14) nine hundred thousand, four hundred eight

15) 8,004

16) C

17) 1,980,270

18)

19) A

20) B

21) D

22) <

23) A

24) addends: 2, 8; sum: 10

25) A

26) D

27) A

28) D

29) B

30) A

31) 3 + 2

32) 15 + (8 + 7)

33) 490

34) minuend: 6, subtrahend: 4, difference: 2

35) 6

36) B

37) D

38) D

39) C

40) C
41) D
42) 5 + 44; 49
43) A
44) C
45) 1,030 – 64; 966
46) 17 – 6; 11
47) 364 + 65; 429
48) Mt. Fuji is 2363 feet higher than Mt. Haleakala.
49) A
50) $10
51) A
52) a. The difference is 67,313,000 square kilometers.
    b. The total is 96,013,000 square kilometers.
53) C
54) A
55) D
56) B
57) B
58) 460
59) A
60) C
61) 27,000
62) B
63) A
64) D
65) B
66) 700
67) B
68) 2,000 more people
69) C
70) 2004; $1,900,000
71) 2002; $1,200,000
72) 6 · 4; 24
73) C
74) factors: 1, 4, 5; product: 20
75) A
76) C
77) A
78) C
79) A

80) $13 \cdot 15$

81) $11 \cdot (0 \cdot 5)$

82) $6 \cdot 14 + 6 \cdot 10$

83) 82

84) B

85) C

86) C

87) 2,646

88) A

89) C

90) B

91) B

92) B

93) C

94) D

95) A

96) A

97) C

98) B

99) A

100) A

101) 7; the dividend is 63; the divisor is 9; the quotient is 7

102) C

103) A

104) A

105) B

106) A

107) D

108) 255

109) A

110) D

111) A

112) C

113) C

114) 57 R2

115) D

116) B

117) B

118) C

119) B

120) B

121) D

122) $174 \div 2$; 87
123) $802 \div 39$; 20 R22
124) A
125) A
126) A
127) C
128) 61 miles per hour
129) B
130) D
131) B
132) $4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4$
133) B
134) B
135) D
136) C
137) A
138) B
139) 0
140) 21
141) C
142) B
143) B
144) D
145) C
146) 77
147) A
148) D
149) 3
150) C
151) 2
152) C
153) D
154) C
155) A
156) D
157) A
158) D
159) D
160) B
161) There will be $128 left in Joe's account.
162) The amount of money required is $847.
163) D

164) a. Ella needs 9 $20 bills.
   b. She will receive $5 in change.
165) 6
166) C
167) D