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

Write the words used to read the number.

1) 3,890
   A) thirty eight hundred nine
   B) three thousand, eight hundred ninety
   C) thirty eight thousand, ninety
   D) three thousand, eight hundred nine

   Answer: B

2) 52,802
   A) fifty thousand, two hundred eighty two
   B) fifty- two thousand, eight hundred twenty
   C) fifty thousand, eight hundred two
   D) fifty- two thousand, eight hundred two

   Answer: D

3) 536,060
   A) five thousand, thirty- six hundred six
   B) fifty- three million, six thousand, sixty
   C) five hundred thirty- six thousand, sixty
   D) fifty- three thousand, six hundred sixty

   Answer: C

4) 5,300,525
   A) five million, three thousand, five hundred twenty- five
   B) five million, three hundred thousand, five hundred twenty- five
   C) five million, thirty thousand, five hundred twenty- five
   D) five million, three hundred thousand, five thousand, twenty- five

   Answer: B

5) 85,000,645
   A) eighty- five million, six hundred forty- five
   B) eight million, five hundred thousand, six hundred forty- five
   C) eighty- five million, six thousand, forty- five
   D) eighty- five thousand, six hundred forty- five

   Answer: A

Provide an appropriate response.

6) Our number system is made up of eleven digits (0 through 10).
   A) True
   B) False

   Answer: B

7) The value of a digit is based solely upon how large it is in relation to the other numbers.
   A) True
   B) False

   Answer: B

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8) The hundreds position is to the right of the tens position.
A) True
B) False

Answer: B

9) Our number system is based on ten.
A) True
B) False

Answer: A

10) The ten thousands position is to the right of the hundreds position.
A) True
B) False

Answer: B

11) The value of a digit, in a number, is based on its position.
A) True
B) False

Answer: A

12) Our number system is made up of:
A) 11 digits (0 through 10)
B) 10 digits (0 through 9)
C) 100 digits (1 through 100)
D) 10 digits (1 through 10)

Answer: B

13) If the digit to the right of the number that you are rounding is less than 5:
A) keep the number the same
B) round the number up
C) add 1 to the number
D) round the number down

Answer: A

14) Our number system is called the:
A) place- value system
B) metric system
C) digit system
D) decimal system

Answer: D

Write as a number.

15) Forty five thousand, eight hundred six.
A) 450,806
B) 4,586
C) 45,860
D) 45,806

Answer: D

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16) Sixty thousand, nine hundred sixty- four.
A) 600,964
B) 60,064
C) 60,964
D) 6964

Answer: C

17) Three hundred twelve thousand, eight hundred ninety- four.
A) 312,894
B) 3,208,940
C) 31,284
D) 312,894,000

Answer: A

18) Four hundred eighty- three thousand, one hundred twenty- eight.
A) 400,083,128
B) 408,128
C) 483,128
D) 480,128

Answer: C

19) Five million, seventeen.
A) 50,00,017
B) 517,000,000
C) 5,170,000
D) 5,000,017

Answer: D

20) Seven million, nine hundred sixty- seven thousand, three hundred sixteen.
A) 7,967,316
B) 79,067,316
C) 7,000,967,316
D) 70,967,316

Answer: A

21) Eighty million, four hundred seven thousand, one hundred eighty- five.
A) 80,000,407,185
B) 8,407,185
C) 84,007,185
D) 80,407,185

Answer: D

22) One hundred million, nine hundred thirty- two thousand, three hundred eight.
A) 100,932,308
B) 100,932,000,308
C) 1,932,308
D) 10,932,308

Answer: A

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23) One billion, two hundred twenty- seven million, four hundred thirty- one thousand, eleven.
A) 10,227,431,011
B) 1,227,431,110
C) 1,227,431,000,011
D) 1,227,431,011

Answer: D

24) Ninety- three billion, two hundred four thousand.
A) 93,204,000
B) 93,000,204,000
C) 93,000,204
D) 93,204,000,000

Answer: B

Provide an appropriate response.

25) Commas separate every three digits from left to right.
A) True
B) False

Answer: B

26) Starting at the right side of a number, commas are used to separate the number into groups of three digits.
A) True
B) False

Answer: A

Write as a number.

27) Round 9,956 to tens.
A) 10,060
B) 9,950
C) 9,970
D) 9,960

Answer: D

28) Round 32,486 to tens.
A) 32,480
B) 32,590
C) 32,490
D) 32,500

Answer: C

29) Round 625 to hundreds.
A) 500
B) 700
C) 610
D) 600

Answer: D

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30) Round 7,835 to hundreds.
A) 7,900
B) 7,700
C) 7,800
D) 7,810

Answer: C

31) Round 32,406 to hundreds.
A) 32,410
B) 32,400
C) 32,300
D) 32,500

Answer: B

32) Round 5,419 to thousands.
A) 6,000
B) 4,900
C) 5,100
D) 5,000

Answer: D

33) Round 7,959 to the first digit.
A) 7,890
B) 8,100
C) 8,000
D) 9,000

Answer: C

34) Round 87,091 to thousands.
A) 97,000
B) 88,000
C) 87,000
D) 87,100

Answer: C

35) Round 85,004 to thousands.
A) 85,000
B) 85,100
C) 85,010
D) 86,000

Answer: A

36) Round 533 to thousands.
A) 100,000
B) 100
C) 1000
D) 10,000

Answer: C

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Provide an appropriate response.

37) If the digit to the right of the number that you are rounding is 5 or less, round the digit up.
A) True
B) False

Answer: B

38) Rounding can be used to approximate an answer.
A) True
B) False

Answer: A

39) The first step in rounding is to identify the digit to be rounded.
A) True
B) False

Answer: A

Solve the problem.

40) A certain exotic sports car costs three hundred twelve thousand, three hundred ninety- two dollars. Write as a number.
A) 312,392,000
B) 31,232
C) 312,392
D) 3,203,920

Answer: C

41) A company had net revenues of $5,600,895 in one year. Write the words used to read the revenues.
A) five million, sixty thousand, eight hundred ninety- five
B) five million, six hundred thousand, eight thousand, ninety- five
C) five million, six thousand, eight hundred ninety- five
D) five million, six hundred thousand, eight hundred ninety- five

Answer: D

42) A car company sold 8,309 cars over the last 5 years. Round the number of cars to the nearest hundred.
A) 8,200
B) 8,400
C) 8,310
D) 8,300

Answer: D

43) In Cairo, Egypt, the average number of protestors in Tahrir Square at any given moment during the anti- Mubarak protests was 76,001. Round the number of protestors to the nearest thousand.
A) 76,100
B) 76,000
C) 77,000
D) 76,010

Answer: B

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Provide an appropriate response.

44) The integer - 9,644 written as words is:

I. negative nine thousand, six hundred forty- four
II. minus nine thousand, six hundred forty- four
III. negative 9 thousand, six forty- four

A) III only
B) I only
C) II only
D) either I or II

Answer: D

45) When rounding negative integers, the rules are:

A) first convert the integer to a positive whole number
B) the same as for rounding whole numbers
C) the same as for multiplying negative integers
D) negative integers should not rounded

Answer: B

Mentally estimate the sum by rounding each number to the first digit.

46)

$$\begin{array}{r} 3{,}826 \\ 66 \\ 919 \\ +\,6{,}261 \\ \hline \end{array}$$

A) 11,070
B) 10,970
C) 11,072
D) 11,080

Answer: B

47)

$$\begin{array}{r} 45 \\ 56 \\ 47 \\ 83 \\ +\,51 \\ \hline \end{array}$$

A) 280
B) 300
C) 290
D) 282

Answer: C

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48)

675
933
847
847
+ 860

A) 4,160
B) 4,100
C) 4,162
D) 4,200

Answer: B

Add to get the exact answer.

49) 5,829 + 687 + 55 + 8,136

A) 13,607
B) 13,697
C) 14,597
D) 14,707

Answer: D

50)

4,644
639
49
+ 9,890

A) 15,222
B) 15,112
C) 14,122
D) 14,212

Answer: A

51)

39
735
4,673
+ 16,123

A) 21,470
B) 20,570
C) 21,570
D) 21,550

Answer: C

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52)

```
  7,524
    177
     28
    238
+ 8,574
```

A) 15,441
B) 15,531
C) 16,541
D) 16,431

Answer: C

53)

```
  32,455
   8,925
+ 12,447
```

A) 53,927
B) 54,927
C) 52,827
D) 53,827

Answer: D

Subtract and check the difference.

54)

```
  95
- 42
```

A) 73
B) 49
C) 53
D) 137

Answer: C

55)

```
  767
- 433
```

A) 1,200
B) 334
C) 328
D) 234

Answer: B

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56)

$$\begin{array}{r} 8{,}928 \\ -\ 1{,}272 \\ \hline \end{array}$$

A) 7,652
B) 7,612
C) 8,656
D) 7,656

Answer: D

Provide an appropriate response.

57) Sums are numbers added together.
A) True
B) False

Answer: B

58) The sum is the answer or result of an addition problem.
A) True
B) False

Answer: A

59) The addend is the total of the sums.
A) True
B) False

Answer: B

60) Estimating the answer, before calculating the exact answer, in some situations is beneficial.
A) True
B) False

Answer: A

61) The result or answer, in a subtraction problem, is the minuend.
A) True
B) False

Answer: B

62) Adding the minuend and the subtrahend, in a subtraction problem, is one way of proving your answer.
A) True
B) False

Answer: B

63) Changing positional notation is the result of borrowing in subtraction.
A) True
B) False

Answer: A

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64) You must first regroup the digits in the minuend, when it becomes necessary to subtract a digit from a smaller digit.
A) True
B) False
Answer: A

65) Estimating your answer, in a subtraction problem, is not as advantageous as in an addition problem and should be avoided.
A) True
B) False
Answer: B

66) The original amount, in a subtraction problem, is called the:
A) difference
B) minuend
C) subtrahend
D) borrowing
Answer: B

Add the integers.

67) - 49 + 93
A) 38
B) 142
C) 44
D) 54
Answer: C

68) - 175 + 859
A) 1,034
B) 584
C) 674
D) 684
Answer: D

69) - 2,286 + (- 3,385)
A) - 1,028
B) - 927
C) - 5,671
D) - 1,061
Answer: C

Subtract the integers.

70) 36 - (- 32)
A) 95
B) 59
C) 86
D) 68
Answer: D

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71) - 59 - (92)

A) - 152
B) - 141
C) - 150
D) - 151

Answer: D

72) - 53 - (- 98)

A) 151
B) 39
C) 125
D) 45

Answer: D

Provide an appropriate response.

73) To add two integers with unlike signs:

A) add and keep the sign of the smaller value
B) subtract and use the sign of the larger value
C) subtract and the answer is positive
D) add and use the sign of the larger value

Answer: B

74) When adding two negative integers:

I. add the numbers without regard to the signs
II. assign a negative to the sum

A) I
B) II
C) neither I nor II
D) both I and II

Answer: D

Multiply and check the product.

75)

$$\begin{array}{r} 23 \\ \times \quad 6 \\ \hline \end{array}$$

A) 138
B) 238
C) 129
D) 128

Answer: A

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76)
379
× 8

A) 3,042
B) 2,932
C) 3,032
D) 3,132

Answer: C

77)
7,698
× 2

A) 15,496
B) 15,396
C) 15,296
D) 15,406

Answer: B

78)
808
× 14

A) 11,312
B) 11,304
C) 11,320
D) 1,232

Answer: A

79) 728 by 32
A) 23,396
B) 23,286
C) 23,306
D) 23,296

Answer: D

80) 6,230 by 7
A) 43,510
B) 43,610
C) 43,620
D) 43,710

Answer: B

81) (733)(6)
A) 4,398
B) 4,298
C) 4,498
D) 4,408

Answer: A

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82) (- $1,338)(25)
A) - $3,676
B) - $33,450
C) - $9,366
D) - $26,765

Answer: B

Provide an appropriate response.

83) A shortcut to repeated addition is multiplication.
A) True
B) False

Answer: A

84) The product is equal to the multiplicand times the multiplier.
A) True
B) False

Answer: A

85) The multiplicand is the answer to a multiplication problem.
A) True
B) False

Answer: B

86) 47 × 1,000 means adding 3 zeros to the number being multiplied.
A) True
B) False

Answer: A

87) Proper placement of the partial products is essential when multiplying numbers that contain more than 2 digits.
A) True
B) False

Answer: A

88) In the multiplication problem 623 × 32 = 19,936, the number 623 is the multiplier.
A) True
B) False

Answer: B

89) Zeros at the end of the multiplier or multiplicand should be added to the right of the product.
A) True
B) False

Answer: A

90) Failure to indent the product is a common mistake in multiplication.
A) True
B) False

Answer: B

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91) A factor is a number involved in multiplication.
A) True
B) False
Answer: A

92) Multiplying 137 by 1,000 means adding one zero to the number being multiplied.
A) True
B) False
Answer: B

93) How many zeros are affixed to the number to multiply it by 1000?
A) three
B) one
C) two
D) four
Answer: A

94) When multiplying integers:
A) multiply and use the sign of the larger value
B) multiply and make the product negative
C) multiply and use a positive sign if the two integers have different signs
D) multiply and use the negative sign if the two integers have different signs
Answer: D

95) A common mistake, in multiplication, is the failure to indent the:
A) multiplier
B) product
C) partial products
D) multiplicand
Answer: C

Divide and check the quotient.

96) 14 ÷ 2
A) 7
B) 6
C) 8
D) - 8
Answer: A

97) 82,773 ÷ 51
A) 1,628
B) 1,633
C) 1,623
D) 1,613
Answer: C

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98) $40\overline{)2{,}560}$
A) 65
B) 64
C) 30
D) 31
Answer: B

99) $44\overline{)76{,}296}$
A) 1,739
B) 1,744
C) 1,734
D) 1,724
Answer: C

100) (- 4,112) ÷ (- 16)
A) 257
B) 6
C) 258
D) 7
Answer: A

101) - 176 ÷ 11
A) - 16
B) - 17
C) 16
D) - 3
Answer: A

102) - $23,769 ÷ 57
A) - $407
B) - $417
C) - $427
D) - $422
Answer: B

Divide.

103) 7,112,400 ÷ 200
A) 355,620
B) 71,124
C) 106,686
D) 35,562
Answer: D

104) 14,484,000 ÷ 200
A) 724,200
B) 217,260
C) 144,840
D) 72,420
Answer: D

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Provide an appropriate response.

105) Division offers a way of understanding how the parts fit together as a whole.
A) True
B) False
Answer: A

106) In division, the number doing the dividing is called the divisor.
A) True
B) False
Answer: A

107) In a division problem, the answer is said to consist of a divisor and a remainder when the result does not come out even.
A) True
B) False
Answer: B

108) The divisor plus the quotient plus the remainder equals the dividend.
A) True
B) False
Answer: B

109) In division, the number being divided is called the dividend.
A) True
B) False
Answer: A

110) The reverse of multiplication is division.
A) True
B) False
Answer: A

111) McCormack Realty Company had an annual loss of $1,896. In order to find the average loss per month, the answer would be:
A) negative, and a result of multiplication
B) negative, and a result of division
C) positive, and a result of multiplication
D) positive, and a result of division
Answer: B

112) In division, the answer is called the:
A) quotient
B) dividend
C) remainder
D) divisor
Answer: A

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113) If the answer in division does not come out evenly, the difference is called the:
A) divisor
B) dividend
C) remainder
D) quotient

Answer: C

114) In a division problem that comes out evenly (with no remainder), the dividend always equals the _____ times the _____.
A) dividend, divisor
B) quotient, remainder
C) divisor, quotient
D) remainder, divisor

Answer: C

Perform the operation by applying the standard order of operations for a series of calculations.

115) $4 \times 7 - 5$
A) 33
B) 8
C) 140
D) 23

Answer: D

116) $32 + 8 \times 9$
A) 544
B) 360
C) - 40
D) 104

Answer: D

117) $34 - 8 \times 3$
A) 170
B) 78
C) 58
D) 10

Answer: D

118) $240 \div 5 - 3$
A) 232
B) 238
C) 45
D) 120

Answer: C

119) $240 \div 6 - 4$
A) 238
B) 120
C) 230
D) 36

Answer: D

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120) $13 \times 8 + 15 \times 7$
A) 833
B) 1,469
C) 2,093
D) 209
Answer: D

121) $10 + 26 \times 3 - 6$
A) 102
B) 0
C) 82
D) 33
Answer: C

122) $9 + 9 \div 3 \times 2 - 7$
A) 22
B) 23
C) 5
D) 8
Answer: D

123) $26 - (5 + 11)$
A) 20
B) 32
C) 42
D) 10
Answer: D

124) $(\$18 + \$24 + \$48 + \$51) \div 3$
A) $50
B) $41
C) $47
D) $30
Answer: C

Provide an appropriate response.

125) When applying the standard order of operations to a series of operations, which of the following operations would you perform first?
A) multiplication
B) any operation inside parentheses
C) addition
D) division
Answer: B

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Solve the problem.

126) On a normal week day the vending machines at Green Lake College dispense 1,260 sodas, 450 candy bars, 570 snack items, and 210 cups of coffee. If it takes Jim Lewis six hours to restock the vending machines, how many items does he restock each hour?

A) 415 items
B) 830 items
C) 340 items
D) 320 items

Answer: A

127) During one year 22 new employees started working at McIntosh Manufacturing Company. At the beginning of the year there are 230 employees in the factory and 45 employees in the office. What is the total number of employees at the end of the year?

A) 275 employees
B) 297 employees
C) 67 employees
D) 253 employees

Answer: B

128) Jose Ramirez, a salesperson for a chemical company, travelled 1,800 miles on Monday, 461 miles on Tuesday, and 2,043 miles on Thursday. Find the total number of miles he travelled during these three days.

A) 3,382 mi
B) 4,204 mi
C) 3,843 mi
D) 4,304 mi

Answer: D

129) Sales at Andrea's Formal Wear Shop were $1,036 this week. This is $196 less than the sales last week. What were last week's sales?

A) $840
B) $1,232
C) $1,243
D) $1,221

Answer: B

130) A baby weighed 8 pounds at birth and gained 2 pounds a month. How much did the baby gain in 6 months?

A) 60 lb
B) 12 lb
C) 16 lb
D) 20 lb

Answer: B

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131) Brandy's Gift House pays employees for each gift they gift wrap. Assume they are paid as follows:

gifts 1- 10	$14 each
gifts 11- 15	$20 each
gifts 16 and up	$26 each

If Lee wraps 12 gifts, what are her gross earnings?

A) $192
B) $180
C) $168
D) $240

Answer: B

132) Gina is buying a used car that has an advertised price of $3,000. She is buying the car on credit and must make a down payment of $1,050 and 24 monthly payments of $103. What is the total cost of the car?

A) $3,419
B) $3,625
C) $3,522
D) $3,103

Answer: C

133) Jack borrowed $1,650 from his brother. Jack's brother wants 12 monthly payments of $150 to repay the loan. How much extra is Jack's brother charging for the loan?

A) $0
B) $150
C) $1,900
D) $1,800

Answer: B

Provide an appropriate response.

134) The problem- solving strategy includes:

I. identifying what you know
II. knowing what you are looking for
III. performing the solution plan

A) all of these
B) II
C) I
D) III

Answer: A

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1) B
2) D
3) C
4) B
5) A
6) B
7) B
8) B
9) A
10) B
11) A
12) B
13) A
14) D
15) D
16) C
17) A
18) C
19) D
20) A
21) D
22) A
23) D
24) B
25) B
26) A
27) D
28) C
29) D
30) C
31) B
32) D
33) C
34) C
35) A
36) C
37) B
38) A
39) A
40) C
41) D
42) D
43) B
44) D
45) B
46) B
47) C
48) B
49) D
50) A

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51) C
52) C
53) D
54) C
55) B
56) D
57) B
58) A
59) B
60) A
61) B
62) B
63) A
64) A
65) B
66) B
67) C
68) D
69) C
70) D
71) D
72) D
73) B
74) D
75) A
76) C
77) B
78) A
79) D
80) B
81) A
82) B
83) A
84) A
85) B
86) A
87) A
88) B
89) A
90) B
91) A
92) B
93) A
94) D
95) C
96) A
97) C
98) B
99) C
100) A

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101) A
102) B
103) D
104) D
105) A
106) A
107) B
108) B
109) A
110) A
111) B
112) A
113) C
114) C
115) D
116) D
117) D
118) C
119) D
120) D
121) C
122) D
123) D
124) C
125) B
126) A
127) B
128) D
129) B
130) B
131) B
132) C
133) B
134) A

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