Exam

Name_____

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

Underline the digit that occupies the given place.
1) 926   Tens place   1) _____
    A) 926   B) 926   C) 926   D) None of these

2) 384   Hundreds place   2) _____
    A) 384   B) 384   C) 384   D) None of these

3) 1,351   Hundreds place   3) _____
    A) 1,351   B) 1,351   C) 1,351   D) 1,351

4) 5,885   Thousands place   4) _____
    A) 5,885   B) 5,885   C) 5,885   D) 5,885

5) 29,415   Hundreds place   5) _____
    A) 29,415   B) 29,415   C) 29,415   D) 29,415

6) 678,636   Ten thousands place   6) _____
    A) 678,636   B) 678,636   C) 678,636   D) 678,636

7) 82,383,859 Millions place   7) _____
    A) 82,383,859   B) 82,383,859   C) 82,383,859   D) 82,383,859

8) 84,817,912 Hundred thousands place   8) _____
    A) 84,817,912   B) 84,817,912   C) 84,817,912   D) 84,817,912

9) 585,159   Hundred thousands place   9) _____
    A) 585,159   B) 585,159   C) 585,159   D) 585,159

10) 4,218,599   Thousands place   10) _____
    A) 4,218,599   B) 4,218,599   C) 4,218,599   D) 4,218,599

Identify the place occupied by the underlined digit.
11) 48,112   11) _____
    A) Ten thousands   B) Thousands   C) Hundreds   D) Tens

12) 16,218   12) _____
    A) Ten thousands   B) Hundreds   C) Tens   D) Thousands

13) 87,293   13) _____
    A) Thousands   B) Tens   C) Hundreds   D) Ten thousands

1

14) 126,679

A) Thousands   B) Hundreds   C) Ten thousands   D) Tens

14) _____

15) 871,854

A) Ten thousands   B) Thousands
C) Hundred thousands   D) Tens

15) _____

16) 1,215, 318

A) Ten thousands   B) Thousands   C) Millions   D) Tens

16) _____

17) 2,936,971

A) Hundred thousands   B) Thousands
C) Millions   D) Tens

17) _____

18) 69,623,883

A) Millions   B) Thousands
C) Ten millions   D) Hundred thousands

18) _____

19) 38,888,888

A) Thousands   B) Ten thousands
C) Hundred thousands   D) Ten millions

19) _____

20) 38,888,888

A) Hundred thousands   B) Ten millions
C) Thousands   D) Millions

20) _____

Insert commas as needed.

21) 375894

A) 3,758,94   B) 375894   C) 3758,94   D) 375,894

21) _____

22) 1749759

A) 1,749759   B) 1,749,759   C) 1749,759   D) 174,9759

22) _____

23) 14489456

A) 14,489,456   B) 144,894,56   C) 144,89,456   D) 1,448,945,6

23) _____

24) 2247747187

A) 2247,747,187   B) 2,247,747,187   C) 2,24774,7187   D) 224,774,718,7

24) _____

25) 5485458

A) 5,485458   B) 548,5458   C) 5,485,458   D) 5485,458

25) _____

26) 39577593

A) 395,77,593   B) 39,577,593   C) 3,957,759,3   D) 395,775,93

26) _____

27) 1888888811

A) 1,888,888,811   B) 18,88,888,811   C) 188,888,881,1   D) 1888,888,811

27) _____

2

Write the number in words.

28) 135,060
    A) One million, thirty-five thousand, sixty   B) One hundred thirty-five thousand, sixty
    C) Thirteen thousand, five hundred sixty   D) Thirteen thousand, five hundred six

28) _____

29) 9,300,695
    A) Nine million, thirty thousand, six hundred ninety-five
    B) Ninety-three thousand, six hundred ninety-five
    C) Nine million, three hundred thousand, six hundred ninety-five
    D) Nine million, three thousand, six hundred ninety-five

29) _____

30) 22,000,674
    A) Twenty-two million, six hundred seventy-four
    B) Twenty-two hundred million, six hundred seventy-four
    C) Two million, two thousand, six hundred seventy-four
    D) Twenty-two million, six thousand seventy-four

30) _____

31) 64,568,009
    A) Sixty million, forty-five thousand, sixty-eight hundred and nine
    B) Sixty-million, five thousand sixty-eight hundred, nine
    C) Sixty-four million, five hundred sixty-eight thousand, nine
    D) Sixty-four million, five hundred thousand, sixty-eight hundred, nine

31) _____

32) 235,060
    A) Twenty-three thousand, five hundred six
    B) Two million, thirty-five thousand, sixty
    C) Twenty-three thousand, five hundred sixty
    D) Two hundred thirty-five thousand, sixty

32) _____

33) 4,200,091
    A) Four million, two hundred ninety-one
    B) Four million, twenty thousand, ninety-one
    C) Four million, two hundred thousand, ninety-one
    D) Forty-two thousand, ninety-one

33) _____

34) 5,168
    A) Five thousand, one hundred sixty-eight
    B) Five million, one thousand, sixty-eight
    C) Fifty-one thousand, sixty-eight
    D) Five hundred thousand, one hundred sixty-eight

34) _____

35) 3,072
    A) Three million, seventy-two   B) Three hundred thousand, seventy-two
    C) Three thousand, seventy-two   D) Thirty thousand, seventy-two

35) _____

36) 24,807
    A) Two thousand, four hundred eighty-seven
    B) Two million, forty-eight thousand, seven
    C) Two hundred forty-eight thousand, seven
    D) Twenty-four thousand, eight hundred seven

36) _____

37) 70,146   37) _____
    A) Seven hundred one thousand, forty-six   B) Seven million, one thousand, forty-six
    C) Seven thousand, one hundred forty-six   D) Seventy thousand, one hundred forty-six

Write the number in standard form.

38) Eight thousand, one hundred sixty-seven   38) _____
    A) 800,167   B) 810,067   C) 81,067   D) 8,167

39) Thirty-two thousand, nine hundred five   39) _____
    A) 3,295   B) 32,905   C) 32,950   D) 320,905

40) Seven thousand, six   40) _____
    A) 7,600   B) 76,000   C) 7,006   D) 7,060

41) Forty-eight thousand, seventeen   41) _____
    A) 47,180   B) 4,817   C) 48,017   D) 48,170

42) Six hundred thirty-eight thousand, nine hundred ninety-seven   42) _____
    A) 638,000   B) 638,997   C) 638,977   D) 638,997,000

43) Two hundred six thousand, one hundred seven   43) _____
    A) 207,106   B) 206,107   C) 260,170   D) 2,617

44) One hundred million, six thousand   44) _____
    A) 106,000,000   B) 100,006,000   C) 1,006   D) 1,600,000

45) Ten million, three hundred fifty-four thousand, two hundred three   45) _____
    A) 1,354,230   B) 10,354,203   C) 1,354,203   D) 135,423

46) Twenty-three billion, one million, fifteen hundred thousand   46) _____
    A) 23,150,000,000   B) 23,000,015,000   C) 23,015,000   D) 23,001,500,000

47) Thirty-three million, one hundred five thousand, one hundred   47) _____
    A) 33,015,100   B) 33,105, 100   C) 33,105,010   D) 33,150,001

Write the number in expanded form.

48) 984   48) _____
    A) 9 thousands + 8 hundreds + 4 tens = 9000 + 800 + 40
    B) 984 hundreds = 984
    C) 9 hundreds + 8 tens + 4 ones = 900 + 80 + 4
    D) 4 hundreds + 8 tens + 9 ones = 400 + 80 + 9

49) 9276   49) _____
    A) 6 thousands + 7 hundreds + 2 tens + 9 ones = 6000 + 700 + 20 + 9
    B) 9 thousands + 2 hundreds + 7 tens + 6 ones = 9000 + 200 + 70 + 6
    C) 9 hundreds + 7 tens + 2 ones = 900 + 70 + 2
    D) 9276 thousands = 9276

50) 85,429

    A) 8 ten thousands + 5 thousands + 4 hundreds + 2 tens + 9 ones = 80,000 + 5000 + 400 + 20 + 9
    B) 8 thousands + 5 hundreds + 4 tens + 29 ones = 8000 + 500 + 40 + 29
    C) 9 ten thousands + 2 thousands + 4 hundreds + 5 tens + 8 ones = 90,000 + 2000 + 400 + 50 + 8
    D) 85,429 ten thousands = 85,429

50) _____

51) 60,800

    A) 6 thousands + 8 hundreds = 6000 + 800
    B) 680 ten thousands = 60,800
    C) 6 ten thousands + 8 thousands = 60,000 + 8000
    D) 6 ten thousands + 8 hundreds = 60,000 + 800

51) _____

52) 6090

    A) 6 ten thousands + 9 thousands = 60,000 + 9000
    B) 609 thousands = 609,000
    C) 6 thousands + 9 tens = 6000 + 90
    D) 6 hundreds + 9 ones = 600 + 9

52) _____

53) 40,260

    A) 4 thousands + 2 hundreds + 6 ones = 4000 + 200 + 6
    B) 4 ten thousands + 2 hundreds + 6 tens = 40,000 + 200 + 60
    C) 4 ten thousands + 2 thousands + 6 tens = 40,000 + 2000 + 60
    D) 4 thousands + 2 tens + 6 ones = 4000 + 20 + 6

53) _____

54) 5,338, 555

    A) 5 millions + 3 hundred thousands + 3 ten thousands + 8 thousands + 5 hundreds + 5 tens + 5 ones =
       5,000,000 + 300,000 + 30,000 + 8000 + 500 + 50 + 5
    B) 5 millions + 5 hundred thousands + 5 ten thousands + 3 thousands + 8 hundreds + 3 tens + 5 ones =
       8,000,000 + 500,000 + 50,000 + 3000 + 800 + 30 + 5
    C) 5 hundred thousands + 3 ten thousands + 3 thousands + 8 hundreds + 5 tens + 5 ones + 5 =
       500,000 + 30,000 + 3000 + 800 + 50 + 5 + 5
    D) 5 millions + 3 hundred thousands + 3 ten thousands + 8 thousands + 5 tens + 5 ones + 5 =
       5,000,000 + 300,000 + 30,000 + 8000 + 50 + 5 + 5

54) _____

Round to the indicated place.

55) 6969 to the nearest ten

    A) 6970   B) 6960   C) 7070   D) 6980

55) _____

56) 88,585 to the nearest ten

    A) 88,580   B) 88,590   C) 88,690   D) 88,600

56) _____

57) 5070 to the nearest hundred

    A) 5100   B) 5090   C) 5200   D) 5000

57) _____

58) 20,108 to the nearest hundred

    A) 20,110   B) 20,000   C) 20,200   D) 20,100

58) _____

59) 10,362 to the nearest thousand   59) _____
    A) 11,000   B) 20,000   C) 10,000   D) 10,100

60) 821 to the nearest thousand   60) _____
    A) 1,000   B) 100,000   C) 10,000   D) 100

61) 327,337 to the nearest ten thousand   61) _____
    A) 327,000   B) 320,000   C) 330,000   D) 400,000

62) 35,613,263 to the nearest million   62) _____
    A) 35,700,000   B) 35,613,000   C) 35,000,000   D) 36,000,000

63) 268 to the nearest hundred   63) _____
    A) 300   B) 270   C) 260   D) 200

64) 33,838 to the nearest ten thousand   64) _____
    A) 40,000   B) 3   C) 33,830   D) 30,000

Write the number in words.

65) A company had net revenues of $6,700,625 in one year.   65) _____
    A) Six million, seven hundred thousand, six hundred, twenty-five
    B) Six million, seventy thousand, six hundred, twenty-five
    C) Six million, seven hundred thousand, six thousand, twenty-five
    D) Six million, seven thousand, six hundred, twenty-five

66) While working as a stockbroker, Francois sold securities worth $6,300,100 last year.   66) _____
    A) Six million, three thousand, one dollars
    B) Six million, three thousand, one hundred dollars
    C) Six million, three hundred thousand, one dollars
    D) Six million, three hundred thousand, one hundred dollars

67) A country has an area of approximately 3,800,900 square miles.   67) _____
    A) Three million, eight thousand, nine
    B) Three million, eight hundred thousand, nine hundred
    C) Three million, eight hundred thousand, nine
    D) Three million, eight thousand, nine hundred

68) A recent census confirmed that the population of a major city is 6,200,004.   68) _____
    A) Six million, two hundred thousand, forty   B) Six million, two thousand, four
    C) Six million, two thousand, four hundred   D) Six million, two hundred thousand, four

69) A large cooperation earned approximately $1,300,000,000.   69) _____
    A) One billion, three hundred thousand dollars
    B) One billion, three million dollars
    C) One billion, three hundred million dollars
    D) One million, three thousand dollars

70) An expensive telescope has found evidence that the universe contains about 108,400,000,000   70) _____
   galaxies.
   A) One hundred eight billion, four hundred thousand
   B) One hundred eight million, four thousand
   C) One hundred eight billion, four million dollars
   D) One hundred eight billion, four hundred million

71) A mutual fund purchased a large block of stock valued at $5,400,900.   71) _____
   A) Five million, four thousand, nine
   B) Five million, four hundred thousand, nine
   C) Five million, four hundred thousand, nine hundred
   D) Five million, four thousand, nine hundred

72) A planet orbits its sun at a distance of about 97,958,000 miles.   72) _____
   A) Ninety-seven million, nine hundred fifty-eight miles
   B) Ninety-seven million, nine hundred fifty-eight thousand miles
   C) Ninety-seven billion, nine hundred fifty-eight thousand miles
   D) Ninety-seven billion, nine hundred fifty-eight million miles

Write the number in standard form.
73) The Johnsons have driven their car forty-two thousand, eight hundred two miles in the last few   73) _____
   years.
   A) 42,820   B) 4,282   C) 420,802   D) 42,802

74) A certain exotic sportscar costs three hundred twelve thousand, three hundred ninety-five dollars.   74) _____
   A) 3,203,950   B) 312,395,000   C) 312,395   D) 31,235

75) While traveling on business, Jerel flew sixty-eight thousand, three hundred three miles.   75) _____
   A) 68,0303   B) 608,0303   C) 68,303   D) 608,3003

76) When the stock market went down, Ellen lost one million, two thousand, seventy-two dollars.   76) _____
   A) $1,002,072   B) $1,200,720   C) $1,200,072   D) $1,020,072

77) Last week Tom purchased a used car that had been driven eighty-five thousand, eight hundred   77) _____
   fifty-four miles.
   A) 85,584   B) 850,854   C) 85,854   D) 58, 854

78) An ocean covers approximately three million, five hundred sixty-one thousand, nine hundred   78) _____
   square miles.
   A) 3,561, 090   B) 3,000,561,900   C) 3,561,900   D) 3,561,009

79) The world-wide production of cereal grains has reached about one billion, seven hundred   79) _____
   sixty-nine million, four hundred three thousand, eight hundred tons.
   A) 1,769,403,080   B) 1,769,3043,800   C) 1,769,430,800   D) 1,769,403,800

80) A major league baseball team is expecting attendance of one hundred fifty-seven thousand, five   80) _____
   hundred three for a four game series.
   A) 157,053   B) 157,530   C) 517,503   D) 157,503

Round to the indicated place.

81) Chuck Yeager, who made the first supersonic flight, flew a North American Aircraft X-15 rocket   81) _____
plane to an altitude of 314,650 feet. Round to the nearest thousand feet.
   A) 310,000 feet   B) 315,000 feet   C) 314,000 feet   D) 314,600 feet

82) In 1984, J. W. Kettinger Jr. became the first person to fly a helium balloon solo across the Atlantic   82) _____
Ocean. He flew 3,543 miles. Round to the nearest hundred miles.
   A) 3,640 miles   B) 3,500 miles   C) 3,600 miles   D) 3,540 miles

83) Winds have reached 319 miles per hour during a series of violent tornadoes that hit Oklahoma   83) _____
City. Round to the nearest ten miles per hour.
   A) 320 miles per hour   B) 330 miles per hour
   C) 300 miles per hour   D) 319 miles per hour

84) When lava erupts from a volcano, it could reach a temperature of 2,312° F. Round to the nearest   84) _____
thousand degrees.
   A) 3,000° F   B) 2,000° F   C) 2,300° F   D) 3,300° F

85) Mauna Loa, in Hawaii, is the largest volcano in the world. Its height above sea level is 13,577 feet.   85) _____
Round to the nearest thousand feet.
   A) 13,500 feet   B) 14,500 feet   C) 14,000 feet   D) 13,000 feet

86) Florida, the Sunshine State, has an area of about 58,644 square miles. Round to the nearest ten   86) _____
thousand square miles.
   A) 57,000 square miles   B) 60,000 square miles
   C) 58,000 square miles   D) 59,000 square miles

87) The Missouri River is the second longest river in the United States. The Missouri River flows for   87) _____
about 2,317 miles. Round to the nearest ten miles.
   A) 2,317 miles   B) 2,310 miles   C) 3,300 miles   D) 2,320 miles

88) The moon is the nearest neighbor to the earth. The circumference of the moon is about 6,690 miles.   88) _____
Round to the nearest thousand miles.
   A) 7,000 miles   B) 6,000 miles   C) 6,700 miles   D) 6,600 miles

Add.

```
    8591
89) + 3806
```
  89) _____

   A) 11,297   B) 11,387   C) 12,397   D) 11,397

```
    1477
90) + 559
```
  90) _____

   A) 2026   B) 7067   C) 2036   D) 1936

91) 54,670
     + 249   91) _____

     A) 54,819   B) 57,160   C) 54,929   D) 54,919

92) 97,174
     + 3384   92) _____

     A) 99,558   B) 131,014   C) 100,558   D) 100,758

93) 46,190
     + 13,524   93) _____

     A) 58,614   B) 59,714   C) 69,714   D) 58,714

94) 44,483
     + 40,533   94) _____

     A) 449,813   B) 85,006   C) 105,116   D) 85,016

95) 22,211 + 13,352   95) _____
    A) 35,743   B) 35,563   C) 53,563   D) 35,746

96) 688 + 31,732   96) _____
    A) 38,612   B) 33,850   C) 32,420   D) 31,420

97) 9985 + 8134   97) _____
    A) 17,119   B) 18,019   C) 18,109   D) 18,119

98) 17,988 + 18,398   98) _____
    A) 46,386   B) 31,387   C) 36,386   D) 26,386

99) 7302 + 862 + 9   99) _____
    A) 8183   B) 8158   C) 8273   D) 8173

100) 90,199 + 44,897 + 5214   100) _____
     A) 138,305   B) 139,310   C) 175,310   D) 140,310

101) 580 + 76 + 9586 + 3   101) _____
     A) 10,225   B) 10,265   C) 10,045   D) 10,245

102) 3396 + 703 + 4 + 88   102) _____
     A) 4291   B) 3991   C) 3631   D) 4191

103) 88,549 + 18 + 1730 + 21,538   103) _____
     A) 111,835   B) 112,835   C) 121,835   D) 111,735

```
        1331
        2061
104) + 4423                                                                          104) _____

        A) 7815              B) 6815              C) 7605              D) 7794


      62,702
       7568
105) + 59,983                                                                        105) _____

        A) 129,253           B) 131,353           C) 130,253           D) 130,353
```

106) 800 + 20 + 8000   106) _____
    A) 8830   B) 8820   C) 8810   D) 8720

107) 50,000 + 800 + 50   107) _____
    A) 50,850   B) 50,750   C) 51,850   D) 49,850

108) 4014 meters + 5732 meters   108) _____
    A) 9756 meters   B) 9691 meters   C) 9646 meters   D) 9746 meters

109) 55 miles + 88 miles   109) _____
    A) 243 miles   B) 143 miles   C) 133 miles   D) 153 miles

110) 145 kilometers + 353 kilometers   110) _____
    A) 498 kilometers   B) 488 kilometers   C) 508 kilometers   D) 598 kilometers

111) 1355 square miles + 3510 square miles   111) _____
    A) 4965 square miles   B) 4865 square miles
    C) 4765 square miles   D) 5865 square miles

112) 49 hours + 28 hours + 99 hours   112) _____
    A) 186 hours   B) 176 hours   C) 166 hours   D) 276 hours

113) 9900 square meters + 400 square meters + 77 square meters   113) _____
    A) 10,377 square meters   B) 1207 square meters
    C) 10,017 square meters   D) 1467 square meters

114) $8800 + $111 + $44   114) _____
    A) $1035   B) $8955   C) $9055   D) $243

Use estimation to determine which calculation is incorrect.

115)   115) _____

```
      A)                 B)                 C)                 D)
        7368               262                262               7368
         513               513               3624               3756
      + 6797             + 3756             + 7368             +  580
      ------             ------             ------             ------
      14,578              4531              11,254             11,704
```

116)

A)
```
    302
    617
 + 4424
   5343
```

B)
```
   8461
    617
 + 4699
 13,777
```

C)
```
    552
   3179
 + 4699
   8165
```

D)
```
    302
   3179
 + 8461
 11,942
```

116) _____

117)

A)
```
   8399
    180
 + 3776
 12,355
```

B)
```
    723
    180
 + 3459
   4252
```

C)
```
    528
   3995
 + 3459
   7982
```

D)
```
    723
   3995
 + 8399
 13,117
```

117) _____

118)

A)
```
  60,810
    2832
  + 3422
  67,064
```

B)
```
    8469
  43,235
  + 3422
  55,126
```

C)
```
  30,488
  43,235
  + 2461
  75,174
```

D)
```
  30,488
    2832
  + 8469
  41,789
```

118) _____

119)

A)
```
  2,908,745
       2111
     + 4023
  5,269,655
```

B)
```
     30,590
     41,267
 + 2,458,799
  2,530,656
```

C)
```
  7,227,745
     41,267
     + 4023
  7,273,035
```

D)
```
     30,590
       2111
 + 7,227,745
  7,260,446
```

119) _____

120)

A)
```
  87,306
 - 79,115
 166,751
```

B)
```
  54,638
 - 41,740
  12,898
```

C)
```
  68,559
 - 45,652
  22,907
```

D)
```
  67,251
 - 53,232
  14,019
```

120) _____

121)

A)
```
  874,454
 - 600,540
  273,914
```

B)
```
  676,577
 - 564,703
  122,874
```

C)
```
  660,628
 - 327,621
  333,007
```

D)
```
  710,140
 - 327,064
  383,076
```

121) _____

122)

A)
```
  4,903,536
 - 2,698,377
  2,205,159
```

B)
```
    89,221
  - 32,821
    56,400
```

C)
```
  4,195,200
 - 1,120,643
  3,074,557
```

D)
```
   917,348
 - 598,378
   319,980
```

122) _____

11

123)

A)
```
    53,697,569
  -  6,110,085
  _____
    47,587,484
```

B)
```
    852,294
  - 505,519
  _____
    346,775
```

C)
```
    21,864,721
  -  9,947,812
  _____
    11,916,909
```

D)
```
    736,684
  - 351,575
  _____
    384,999
```

123) _____

124)

A)
```
    802,231
  - 462,804
  _____
    339,537
```

B)
```
    33,824,724
  - 21,658,879
  _____
    12,165,845
```

C)
```
    66,205
  - 32,763
  _____
    33,442
```

D)
```
    1,522,358
  -   993,094
  _____
      529,264
```

124) _____

Subtract.

125)
```
   959
 -  22
 _____
```
A) 981   B) 937   C) 837   D) 933

125) _____

126)
```
   7758
 -  112
 _____
```
A) 7622   B) 646   C) 7642   D) 7646

126) _____

127)
```
   7689
 - 5244
 _____
```
A) 2437   B) 2445   C) 2357   D) 7445

127) _____

128)
```
   6538
 - 5384
 _____
```
A) 1146   B) 1086   C) 6154   D) 1154

128) _____

129)
```
   9598
 - 2523
 _____
```
A) 9075   B) 7069   C) 7029   D) 7075

129) _____

130)
```
   83,158
 - 28,752
 _____
```
A) 62,406   B) 54,402   C) 54,302   D) 54,406

130) _____

131)
```
   55,345
 -  9759
 _____
```
A) 45,496   B) 54,586   C) 45,586   D) 45,576

131) _____

```
      890,478
132) – 384,071                                                              132) _____

        A) 506,307         B) 506,397         C) 506,507         D) 506,407


133) 63 – 36                                                                 133) _____
        A) 47              B) 22              C) 37              D) 27


134) 728 – 243                                                               134) _____
        A) 469             B) 495             C) 485             D) 585


135) 299 – 55                                                                135) _____
        A) 256             B) 344             C) 234             D) 244


136) 9240 – 2848                                                             136) _____
        A) 6892            B) 6352            C) 6482            D) 6392


137) 97,620 – 17,831                                                         137) _____
        A) 79,689          B) 80,189          C) 79,789          D) 81,189


138) 88,828 – 8450                                                           138) _____
        A) 80,378          B) 80,078          C) 84,378          D) 88,198


139) 31,684 – 6909                                                           139) _____
        A) 24,775          B) 28,775          C) 25,075          D) 32,595


140) 8659 – 985                                                              140) _____
        A) 7684            B) 7674            C) 7673            D) 7574


141) 68 miles – 18 miles                                                     141) _____
        A) 45 miles        B) 70 miles        C) 60 miles        D) 50 miles


142) 693 miles – 312 miles                                                   142) _____
        A) 365 miles       B) 381 miles       C) 391 miles       D) 481 miles


143) 970 feet – 86 feet                                                      143) _____
        A) 984 feet        B) 884 feet        C) 896 feet        D) 874 feet


144) 7982 meters – 2614 meters                                               144) _____
        A) 5458 meters     B) 5368 meters     C) 5868 meters     D) 5328 meters


145) 40,213 meters – 16,102 meters                                          145) _____
        A) 24,011 meters   B) 24,511 meters   C) 24,111 meters   D) 25,511 meters


146) 87,504 kilometers – 8096 kilometers                                     146) _____
        A) 79,108 kilometers              B) 79,408 kilometers
        C) 87,228 kilometers              D) 83,408 kilometers
```

13

147) 35,539 hours - 7275 hours

    A) 28,564 hours   B) 32,264 hours   C) 28,264 hours   D) 36,084 hours

147) _____

148) $7315 - $872

    A) $6443   B) $6442   C) $6453   D) $6343

148) _____

Solve.

149) Sue had $635 in her bank account. She deposited a $390 pay check and a $394 pay check. How much did she deposit and what was her new balance?

    A) $784; $1409   B) $784; $1419   C) $1025; $1419   D) $1029; $1319

149) _____

150) In the metropolitan area, car dealers have 9034 foreign sports cars for sale and 6321 domestic sports cars for sale. How many sports cars are for sale?

    A) 14,857 cars   B) 15,355 cars   C) 3632 cars   D) 2713 cars

150) _____

151) In a biology experiment, a scientist collected 9191 mosquitoes in a field and 7905 mosquitoes in an urban area. How many mosquitoes did she collect altogether?

    A) 2323 mosquitoes   B) 17,096 mosquitoes
    C) 1286 mosquitoes   D) 16,749 mosquitoes

151) _____

152) Find the perimeter.
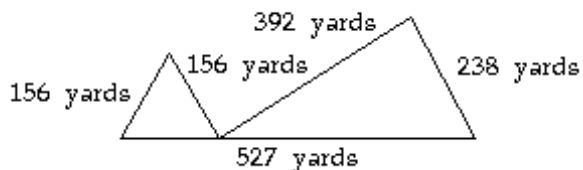
    A) 1,625 yards   B) 1,313 yards   C) 1,231 yards   D) 1,469 yards

152) _____

153) Last year the hatch-back model of a new car cost $17,779. This year's model costs $18,813. How much more does this year's model cost?

    A) $35,592   B) $934   C) $1034   D) $36,592

153) _____

154) A survey of 1612 people found that 465 people were planning to travel on Labor Day weekend. How many people were planning to stay home?

    A) 2077 people   B) 1977 people   C) 1147 people   D) 1047 people

154) _____

155) There are 1234 students registered at Lincoln Community College. 318 of them are boys. How many girls are registered?

    A) 906 girls   B) 1452 girls   C) 1552 girls   D) 916 girls

155) _____

156) While working for a major league baseball team, one of your jobs was to keep a record of the paid attendance for the first five games of the season. After the first seven games you gave this chart to your supervisor. What was the total attendance for the first five games?

Games	1	2	3	4	5
Attendance	33,847	31,504	29,775	32,035	33,211

    A) 160,261   B) 160,372   C) 161,373   D) 160,483

156) _____

157) At this moment you have $775 in your checking account. Tomorrow you plan to deposit $271, and two days later you are planning to write a check for $746. Will you have enough money to write the check?

157) _____

    A) Yes   B) No

158) The monthly plan for your cellular telephone allows you to use 200 minutes a month. After calling customer service you find that you have used 42 minutes. You are planning to make two short personal calls of about 9 minutes each. Then, you need to make three important long business calls. If the calls are of equal length, approximately how much time will you have for each call? Round to the nearest whole number.

158) _____

    A) 45 minutes   B) 35 minutes   C) 50 minutes   D) 47 minutes

159) During the last four months of a recent year, Annie's Natural Food Store reported the following sales.

159) _____

      September $3140
      October $2440
      November $3071
      December $3911

What were the total sales over this period?

    A) $12,562   B) $12,662   C) $12,672   D) $12,572

160) During the last four months of a recent year, Annie's Natural Food Store reported the following sales.

160) _____

      September $2653
      October $2654
      November $2793
      December $4047

How much more were the sales in December than the sales in November?

    A) $1154   B) $6740   C) $6840   D) $1254

161) Pete is driving across country from Boston to Seattle. He keeps a record of the distance that he drives each day.

161) _____

      Monday   498 miles
      Tuesday   311 miles
      Wednesday 266 miles
      Thursday   320 miles
      Friday   324 miles

How much further did he drive on Monday than on Friday?

    A) 498 miles   B) 822 miles   C) 174 miles   D) 178 miles

162) Pete is driving across country from Boston to Seattle. He keeps a record of the distance that he drives each day.

162) _____

      Monday   407 miles
      Tuesday   326 miles
      Wednesday 324 miles
      Thursday   202 miles
      Friday   316 miles

What was his total mileage for the first three days of the week?

    A) 1047 miles   B) 1157 miles   C) 1575 miles   D) 1057 miles

163) The height of the tallest building in the town of Chorlton is 1170 feet. It is 199 feet taller than the second tallest building. What is the height of the second tallest building in Chorlton?

163) _____

    A) 1369 feet   B) 1368 feet   C) 970 feet   D) 971 feet

164) The balance in your checking account is $928. You write checks for $47, $35, and $128. You then deposit $132 from your paycheck. What is your new balance?

164) _____

    A) $850   B) $586   C) $1270   D) $840

165) An employee was paid $51,935 during the first half of last year. During the second half she was paid $68,463. How much more was her income during the second half?

165) _____

    A) $120,398   B) $16,528   C) $16,538   D) $120,408

166) The list price of a car is $12,234. The manufacturer offers a rebate of $966. What is the final price of the car?

166) _____

    A) $11,268   B) $13,100   C) $13,200   D) $11,168

167) The dimensions of a rectangular yard are 26 feet by 103 feet. What is its perimeter?

167) _____

    A) 2678 feet   B) 129 feet   C) 258 feet   D) 155 feet

Multiply.

168) 5×100

168) _____

    A) 500   B) 5000   C) 50   D) 1000

169) 73×100

169) _____

    A) 14,600   B) 7300   C) 730   D) 73,000

170) 100×25

170) _____

    A) 2500   B) 25,000   C) 5000   D) 250

171) $4,000 \times 1,000$

171) _____

    A) 4,000   B) 4,000,000,000   C) 4,000,000   D) 1,000,000

172) $500 \times 10,000$

172) _____

    A) 500   B) 5,000,000   C) 50,000   D) 5,000

173) 59×10

173) _____

    A) 5900   B) 59,000   C) 1180   D) 590

174) 50×100

174) _____

    A) 10,000   B) 5000   C) 50,000   D) 500

175) 390×40

175) _____

    A) 15,596   B) 15,590   C) 15,600   D) 15,610

176) 940×100

176) _____

    A) 18,800   B) 9400   C) 94,000   D) 940

177) 9400×400

177) _____

    A) 3,761,000   B) 3,760,000   C) 3,759,501   D) 3,759,000

178)

56
× 3

178) _____

A) 159 B) 268 C) 158 D) 168

179)

608
× 7

179) _____

A) 4256 B) 476 C) 98 D) 4760

180)

462
× 7

180) _____

A) 3244 B) 3334 C) 3134 D) 3234

181)

4441
× 8

181) _____

A) 35,428 B) 35,628 C) 35,528 D) 35,538

182)

48,539
× 3

182) _____

A) 145,617 B) 145,717 C) 145,597 D) 145,607

183)

875,458
× 8

183) _____

A) 7,084,474 B) 7,003,654 C) 7,084,464 D) 7,003,664

184)

4,770,000
× 9

184) _____

A) 42,931,100 B) 42,918,900 C) 43,031,000 D) 42,930,000

185)

5,700,000
× 4

185) _____

A) 22,801,100 B) 22,788,900 C) 22,901,000 D) 22,800,000

186)

    18
× 35

  A) 620   B) 640   C) 730   D) 630

186) _____

187)

  455
×   15

  A) 6825   B) 6925   C) 5824   D) 6835

187) _____

188)

 7189
×   22

  A) 157,157   B) 158,259   C) 158,058   D) 158,158

188) _____

189)

 9376
×   90

  A) 844,850   B) 842,730   C) 843,840   D) 844,940

189) _____

190)

  155
× 791

  A) 122,605   B) 122,705   C) 122,615   D) 122,595

190) _____

191)

 7909
× 345

  A) 2,728,705   B) 2,728,605   C) 2,738,605   D) 2,727,605

191) _____

192)

 3271
× 5940

  A) 19,429,740 B) 19,439,740 C) 19,429,840 D) 19,428,740

192) _____

193)

 45,162
×   1803

  A) 81,417,076 B) 81,437,096 C) 81,427,086 D) 81,426,086

193) _____

194) (45)(95)
    A) 4275   B) 4375   C) 4285   D) 4265

194) _____

195) (44)(412)
    A) 18,138   B) 18,118   C) 18,128   D) 18,228

195) _____

196) (232)(98)
    A) 22,736   B) 22,726   C) 22,836   D) 22,746

196) _____

197) $238 \cdot 272$
    A) 64,435   B) 64,736   C) 64,726   D) 64,837

197) _____

198) $79 \cdot 54$
    A) 4266   B) 4367   C) 4256   D) 3965

198) _____

199) (386)(808)
    A) 311,888   B) 311,587   C) 311,989   D) 311,878

199) _____

200) 6500×17
    A) 11,050   B) 11,049   C) 110,499   D) 110,500

200) _____

201) 600×106
    A) 96,000   B) 123,600   C) 6360   D) 63,600

201) _____

202) 609×806
    A) 556,140   B) 551,754   C) 523,740   D) 490,854

202) _____

203) 802×24
    A) 19,680   B) 19,248   C) 27,268   D) 99,448

203) _____

204) $54 \cdot 7 \cdot 9$
    A) 3402   B) 3391   C) 3412   D) 3392

204) _____

205) $48 \cdot 9 \cdot 8$
    A) 3467   B) 3446   C) 3445   D) 3456

205) _____

206) $9 \times 9 \times 75$
    A) 6086   B) 6064   C) 6075   D) 6065

206) _____

207) $12 \times 6 \times 13$
    A) 936   B) 937   C) 935   D) 925

207) _____

208) (10) (20) (400)
    A) 80,100   B) 80,000   C) 79,800   D) 79,900

208) _____

209) (20)(10)(10)
    A) 2000   B) 1990   C) 1900   D) 2100

209) _____

210) $82 \times 19 \times 4$

    A) 6332   B) 6222   C) 6232   D) 6132

210) _____

211) $45 \times 2 \times 50$

    A) 4490   B) 4500   C) 4489   D) 4511

211) _____

In each group of four products, one is wrong. Use estimation to determine which product is incorrect.

212)
    A) $54 \times 362 = 19{,}658$ B) $268 \times 56 = 15{,}008$
    C) $548 \times 87 = 47{,}676$ D) $140 \times 42 = 5880$

212) _____

213)
    A) $64 \times 247 = 15{,}808$ B) $440 \times 99 = 43{,}560$
    C) $277 \times 56 = 15{,}523$ D) $216 \times 43 = 9288$

213) _____

214)
    A) $1513 \times 6 = 7978$ B) $7 \times 1455 = 10{,}185$
    C) $219 \times 95 = 20{,}805$ D) $2962 \times 84 = 248{,}808$

214) _____

215)
    A) $146 \times 36 = 5256$ B) $38 \times 455 = 17{,}811$
    C) $4357 \times 68 = 296{,}276$ D) $194 \times 84 = 16{,}296$

215) _____

216)
    A) $34 \times 348 = 11{,}832$ B) $191 \times 46 = 8786$
    C) $313 \times 82 = 26{,}096$ D) $394 \times 80 = 31{,}520$

216) _____

Solve.

217) How many months are there in 22 years?

    A) 274 months   B) 44 months   C) 264 months   D) 34 months

217) _____

218) Sergey averages 30 miles per gallon of gasoline in his car. How far can he travel on 13 gallons of gasoline?

    A) 43 miles   B) 390 miles   C) 48 miles   D) 395 miles

218) _____

219) Each box of matches contains 120 matches. Boxes of matches are shipped in cartons. Each carton contains 10 boxes of matches. How many matches are in each carton?

    A) 120   B) 12   C) 130   D) 1200

219) _____

220) A map has a scale of 3 miles to the inch. How far apart in reality are two cities that are 18 inches apart on the map? How far apart on the map are two cities that, in reality, are 18 miles apart?

    A) 6 miles; 6 inches   B) 54 miles; 54 inches
    C) 6 miles; 54 inches   D) 54 miles; 6 inches

220) _____

221) A community garden contains 35 rectangular plots each measuring 4 yd by 10 yd. What is the total area available for gardening?

    A) 980 yd^2 B) 1435 yd^2 C) 40 yd^2 D) 1400 yd^2

221) _____

222) From the building floor plan depicted in the figure, calculate the floor space area. 222) _____

5 m   6 m

5 m

23 m

19 m
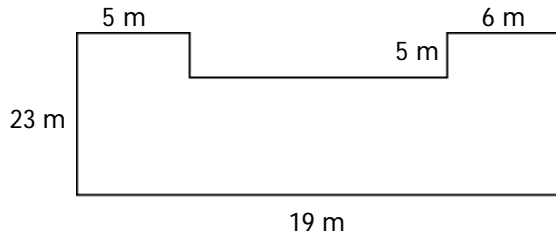
A) 397 m^2 B) 407 m^2 C) 412 m^2 D) 75 m^2

223) Susan's back yard is rectangular with dimensions 44 yd. by 76 yd. Carlos's back yard is rectangular with dimensions 25 yd. by 48 yd. How much larger is the area of Susan's back yard than the area of Carlos's back yard? 223) _____

A) 2144 yd.^{2} B) 4544 yd.^{2} C) 94 yd.^{2} D) 3344 yd.^{2}

224) A travel agent arranged a payment plan for a client. It required a down payment of $150 and 9 monthly payments of $714. What was the total cost of the plan? 224) _____

A) $6476   B) $6576   C) $6426   D) $6526

225) Anna owns 25 acres of land which she rents to a rancher for $3731 per acre per year. Her property taxes are $845 per acre per year. How much profit does she make on the land each year? 225) _____

A) $72,150   B) $94,120   C) $114,400   D) $92,430

226) In preparation for his new job, Luke bought two suits at $169 a piece, four shirts at $28 a piece, two pairs of shoes at $74 a piece, four ties at $25 a piece, and five pairs of socks at $6 a piece. What was the total cost of these items? 226) _____

A) $747   B) $302   C) $698   D) $728

Divide.

227) $4\overline{)60,000}$ 227) _____

A) 15,001   B) 15,000   C) 1500   D) 150,000

228) $6\overline{)792}$ 228) _____

A) 133   B) 134   C) 132   D) 131

229) $5\overline{)630}$ 229) _____

A) 124   B) 127   C) 125   D) 126

230) $3\overline{)5103}$ 230) _____

A) 1699   B) 1702   C) 1700   D) 1701

231) $8\overline{)4368}$ 231) _____

A) 546   B) 545   C) 547   D) 548

232) $3\overline{)59,220}$ 232) _____

A) 19,739   B) 19,741   C) 19,742   D) 19,740

233) $5 \overline{)38,360}$
A) 7674   B) 7673   C) 7672   D) 7670

233) _____

234) $4 \overline{)2160}$
A) 540   B) 539   C) 541   D) 542

234) _____

235) $5 \overline{)72,420}$
A) 14,486   B) 14,484   C) 14,485   D) 14,483

235) _____

236) $5 \overline{)2,980,260}$
A) 596,052   B) 596,051   C) 596,053   D) 596,054

236) _____

237) $800 \div 80$
A) 1000   B) 10   C) 640   D) 64,000

237) _____

238) $600 \div 50$
A) 1200   B) 30,000   C) 12   D) 300

238) _____

239) $3000 \div 50$
A) 1500   B) 150,000   C) 60   D) 600

239) _____

240) $\dfrac{800}{20}$
A) 160   B) 16,000   C) 4000   D) 40

240) _____

241) $\dfrac{9000}{90}$
A) 810,000   B) 100   C) 10,000   D) 8100

241) _____

242) $\dfrac{60,000}{50}$
A) 30,000   B) 3,000,000   C) 12,000   D) 1200

242) _____

243) $660 \div 19$
A) 32 R 7   B) 33 R 10   C) 34   D) 34 R 14

243) _____

244) $6636 \div 42$
A) 159   B) 158   C) 158 R 33   D) 159 R 32

244) _____

245) $23 \overline{)1456}$
A) 66 R 15   B) 63   C) 66 R 5   D) 63 R 7

245) _____

246) $26 \overline{)28,262}$
A) 1097 R 25   B) 1077   C) 1092 R 17   D) 1087

246) _____

247) 30)7469   247) _____
    A) 29   B) 248 R 29   C) 248   D) 248 R 17

248) 461)299,650   248) _____
    A) 651   B) 650   C) 6500   D) 649

249) 43)48,504   249) _____
    A) 11,280   B) 1129   C) 1127   D) 1128

250) 334,531 ÷ 67   250) _____
    A) 49,930   B) 4994   C) 4993   D) 4992

251) 21)19,960   251) _____
    A) 9500 R 10   B) 950 R 12   C) 950 R 10   D) 950 R 8

252) 38)190,665   252) _____
    A) 50,170 R 19   B) 5017 R 17   C) 5017 R 19   D) 5017 R 21

Use estimation to determine which quotients is wrong.

253)   253) _____
    A) 16,366,358 ÷ 37 = 442,334   B) 1,707,905 ÷ 71 = 27,055
    C) 8,310,942 ÷ 342 = 24,301   D) 3,168,706 ÷ 61 = 51,946

254)   254) _____
    A) 16,961,480 ÷ 40 = 424,037   B) 4,252,402 ÷ 77 = 56,226
    C) 1,601,544 ÷ 56 = 28,599   D) 4,277,030 ÷ 139 = 30,770

255)   255) _____
    A) 11,555,610 ÷ 66 = 175,085   B) 852,348 ÷ 21 = 40,588
    C) 522,116 ÷ 28 = 22,647   D) 5,242,482 ÷ 207 = 25,326

256)   256) _____
    A) 962,780 ÷ 26 = 37,030   B) 930,726 ÷ 29 = 30,094
    C) 4,462,614 ÷ 162 = 27,547   D) 17,697,150 ÷ 75 = 235,962

257)   257) _____
    A) 825,942 ÷ 39 = 21,178   B) 1,149,552 ÷ 27 = 42,576
    C) 4,364,442 ÷ 174 = 20,083   D) 14,096,690 ÷ 86 = 163,915

258)   258) _____
    A) 687,680 ÷ 40 = 17,192   B) 11,246,556 ÷ 57 = 193,308
    C) 1,344,018 ÷ 39 = 34,462   D) 2,611,794 ÷ 134 = 19,491

Solve.

259) A group of 5 people wants to buy a boat. The boat costs $695. If they all pay the same amount, how   259) _____
    much is each person's share?
      A) $139   B) $149   C) $115   D) $129

260) The city bridge has 4 lanes, all carrying equal numbers of cars. If 252 cars drive across the bridge, how many cars cross in each lane?

    A) 64 cars   B) 63 cars   C) 256 cars   D) 67 cars

260) _____

261) Richard's team wants to plant 140 trees in 5 months. How many trees per month do they need to plant?

    A) 33 trees   B) 38 trees   C) 56 trees   D) 28 trees

261) _____

262) Alicia sold $1169 in paintings at the art fair. If she sold 7 paintings total, and they all sold for the same amount, what was the price of one painting?

    A) $185   B) $204   C) $167   D) $67

262) _____

263) Just Hardware has a profit of $182,990. This profit is to be divided evenly between 29 employee owners. Find the profit received by each owner.

    A) $18,655   B) $5,306,710   C) $6310   D) $11,309

263) _____

264) Mr. and Mrs. Gutierrez borrow $7020 to buy a new car. The loan is to be paid off in 27 equal monthly payments. How much is each payment?

    A) $6993   B) $7047   C) $26   D) $260

264) _____

265) 234 chocolates are to be packed into boxes each of which will contain 11 chocolates. How many boxes of chocolates will there be? How many chocolates will be left over?

    A) 20 boxes; 3 chocolates left over   B) 21 boxes; no chocolates left over
    C) 20 boxes; 4 chocolates left over   D) 21 boxes; 3 chocolates left over

265) _____

266) A spreadsheet contains 646 entries in a rectangular array which has 38 rows. How many entries are in each row?

    A) 27   B) 24,548   C) 608   D) 17

266) _____

267) Danny buys 8 books at $35 each and pays for them with 10-dollar bills. How many $10 bills did it take?

    A) 270   B) 28   C) 280   D) 5

267) _____

Simplify.

268) 7^2

    A) 49   B) 50   C) 14   D) 15

268) _____

269) 17^2

    A) 34   B) 289   C) 290   D) 35

269) _____

270) 3^3

    A) 28   B) 10   C) 9   D) 27

270) _____

271) 9^3

    A) 729   B) 28   C) 27   D) 730

271) _____

Express as a power of 10.

272) 1000

    A) 10   B) 10^4 C) 10^2 D) 10^3

272) _____

273) 1,000,000

    A) 10^6 B) 10^5 C) 10^8 D) 10^7

273) _____

274) 10,000,000,000

    A) 10^{10} B) 10^{12} C) 10^9 D) 10^{11}

274) _____

275) 100

    A) 10^1 B) 10^4 C) 10^2 D) 10^3

275) _____

276) 10,000,000

    A) 10^6 B) 10^7 C) 10^8 D) 10^9

276) _____

Express the number in terms of powers of the numbers in the expression.

277) $3 \cdot 3 \cdot 7 \cdot 7$

    A) $2(3) \cdot 2(7)$ B) $3^2 \cdot 7^2$ C) $3^4 \cdot 7^4$ D) $3 \cdot 7$

277) _____

278) $2 \cdot 5 \cdot 2 \cdot 5$

    A) $2^4 \cdot 5^4$ B) $2 \cdot 5$ C) $2^2 \cdot 5^2$ D) $2(2) \cdot 2(5)$

278) _____

279) $2 \cdot 2 \cdot 2 \cdot 3$

    A) $3(2) \cdot 3$ B) $2 \cdot 3^3$ C) $2 \cdot 3$ D) $2^3 \cdot 3$

279) _____

280) $2 \cdot 3 \cdot 2$

    A) $2 \cdot 3^2$ B) $2(2) \cdot 3$ C) $2 \cdot 3$ D) $2^2 \cdot 3$

280) _____

281) $3 \cdot 7 \cdot 7 \cdot 7$

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

281) _____

282) $7 \cdot 3 \cdot 7 \cdot 3 \cdot 7$

    A) $3^5 \cdot 7^5$ B) $2(3) \cdot 3(7)$ C) $3^2 \cdot 7^3$ D) $3 \cdot 7$

282) _____

Write the number in standard form.

283) $9^2 \cdot 3^2$

    A) 729   B) 144   C) 90   D) 108

283) _____

284) $6^2 \cdot 10^3$

    A) 1036   B) 36,000   C) 360   D) 4.6656e+10

284) _____

285) $3^5 \cdot 7^2$

    A) 1.801088541e+09   B) 11,907

    C) 210   D) 292

285) _____

286) $2^5 \cdot 5^2$

    A) 800   B) 57   C) 10,000,000   D) 100

286) _____

Evaluate.

287) $240 \div 8 - 4$

    A) 26   B) 236   C) 228   D) 60

287) _____

288) $4^2 + 9^2$

    A) 97   B) 52   C) 169   D) 26

288) _____

289) $28 + 22 \cdot 18$

    A) 634   B) 900   C) 424   D) 68

289) _____

290) $7 \cdot 2 - 2$

    A) 12   B) 28   C) 16   D) 0

290) _____

291) $89 - 2 \cdot 3 \cdot 5$

    A) 59   B) 79   C) 1305   D) 415

291) _____

292) $9^2 - 5 \cdot 2$

    A) 72   B) 152   C) 32   D) 71

292) _____

293) $8^2 + 6^2 \div 2^2$

    A) 73   B) 49   C) 25   D) 104

293) _____

294) $(4 + 2)^2$

    A) 20   B) 8   C) 18   D) 36

294) _____

295) $(12 - 11)^2 + (1 + 3)^2$

    A) 17   B) 25   C) 11   D) 33

295) _____

296) $4 \cdot (3 + 2)^2 - 2 \cdot (6 - 4)^2$

    A) 392   B) 188   C) 92   D) 384

296) _____

297) $\dfrac{5 + 3}{5 - 3}$

    A) 2   B) 5   C) 4   D) 7

297) _____

298) $\dfrac{9 - 3}{4 + 2}$

    A) 1   B) 9   C) 4   D) 6

298) _____

299) $6^2 - 1$

    A) 37   B) 35   C) 36   D) 11

299) _____

300) $(5 + 1)(5 - 1)$

    A) 9   B) 26   C) 24   D) 25

300) _____

301) $\left(\dfrac{13-3}{4+1}\right)^2$

    A) 4   B) 9   C) 2   D) 100

301) _____

302) $\dfrac{3^2+5^2}{2}$

    A) 34   B) 8   C) 1   D) 17

302) _____

303) $73 + 5 \cdot 120 \div 6$

    A) 103   B) 173   C) 468   D) 1560

303) _____

304) $79 \cdot 22 + 12 \cdot 17^2 \div 2$

    A) 3482   B) 1952   C) 1942   D) 3472

304) _____

305) $53(53 - 18)(53 - 13)(53 - 21)$

    A) 2,114,700   B) 1,780,800   C) 2,819,600   D) 2,374,400

305) _____

306) $160^2 - 9(21)(13)$

    A) 21,639   B) 21,623   C) 28,057   D) 23,143

306) _____

Solve the problem.

307) The three squares stand for the numbers 4,6 and 8 in some order. Fill in the squares to make a true statement.

$3 \cdot \square + \square \cdot 7 + 7 \cdot \square = 110$

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

307) _____

308) The three squares stand for the numbers 4,6 and 8 in some order. Fill in the squares to make a true statement.

$\square + 6 \times \square - \dfrac{\square}{2} = 29$

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

308) _____

309) The three squares stand for the numbers 4,6 and 8 in some order. Fill in the squares to make a true statement.

$\square (6 + \square) - 3 \cdot \square = 36$

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

309) _____

310) The three squares stand for the numbers 4,6 and 8 in some order. Fill in the squares to make a true statement.

$\dfrac{8}{\square} - \dfrac{\square}{2} + (2 + \square)^2 = 63$

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

310) _____

311) The three squares stand for the numbers 4,6 and 8 in some order. Fill in the squares to make a true statement.

$\square + 9 \times \square - \square \div 2 = 38$

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

311) _____

27

312) Insert parentheses, if needed, so that the expression on the left is equal to the number on the right.   312) _____

$6 + 2 \cdot 8^2 = 512$

A) $(6 + 2) \cdot 8^2$

B) $6 + (2 \cdot 8)^2$

C) $6 + (2 \cdot 8^2)$

D) No parentheses needed

313) Insert parentheses, if needed, so that the expression on the left is equal to the number on the right.   313) _____

$8 + 9 \cdot 6^2 = 332$

A) $8 + 9 \cdot (6^2)$

B) $8 + (9 \cdot 6^2)$

C) $(8 + 9) \cdot 6^2$

D) No parentheses needed

314) Insert parentheses, if needed, so that the expression on the left is equal to the number on the right.   314) _____

$7 + 6 \cdot 5^2 = 907$

A) $7 + (6 \cdot 5^2)$

B) $7 + (6 \cdot 5)^2$

C) $(7 + 6) \cdot 5^2$

D) No parentheses needed

315) Insert parentheses, if needed, so that the expression on the left is equal to the number on the right.   315) _____

$24 - 24 \div 2^2 + 7 = 25$

A) $(24 - 24) \div 2^2 + 7$

B) $(24 - 24) \div (2^2 + 7)$

C) $24 - 24 \div (2^2 + 7)$

D) No parentheses needed

316) Insert parentheses, if needed, so that the expression on the left is equal to the number on the right.   316) _____

$27 - 23 \div 2^2 + 8 = 9$

A) $27 - (23 \div 2^2) + 8$

B) No parentheses needed

C) $(27 - 23) \div 2^2 + 8$

D) $27 - 23 \div (2^2 + 8)$
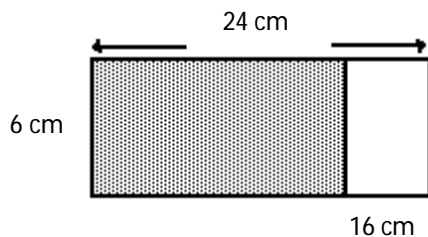
Find the area of the shaded region.

317)   317) _____

8 cm

9 cm   8 cm
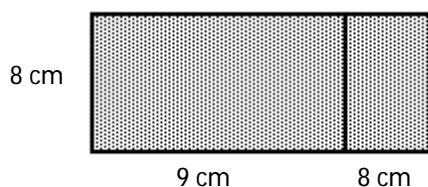
A) 576 square centimeters

B) 8 square centimeters

C) 146 square centimeters
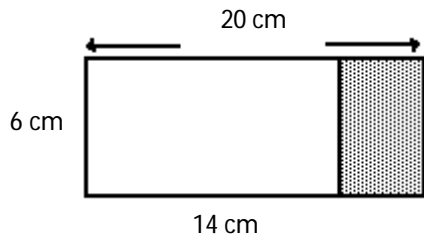
D) 136 square centimeters

318)   318) _____

24 cm

6 cm

16 cm

A) 58 square centimeters

B) 384 square centimeters

C) 48 square centimeters

D) 144 square centimeters
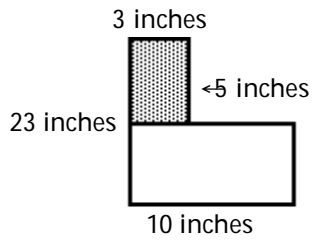
319)   319) _____

20 cm

6 cm

14 cm

A) 120 square centimeters   B) 46 square centimeters
C) 280 square centimeters   D) 36 square centimeters

320)   320) _____

3 inches

←5 inches

23 inches

10 inches

A) 230 square inches   B) 5 square inches
C) 15 square inches   D) 245 square inches

321)   321) _____

4 feet

19 feet

27 feet
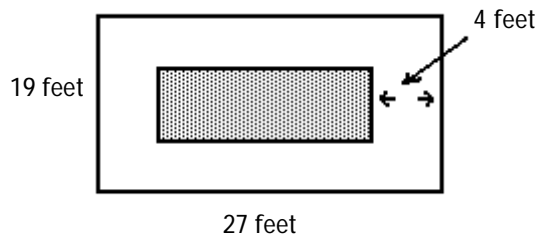
A) 505 square feet   B) 497 square feet   C) 209 square feet   D) 219 square feet

322)   322) _____

3 feet

15 feet

29 feet
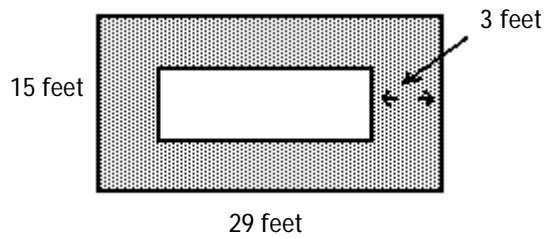
A) 426 square feet   B) 218 square feet   C) 228 square feet   D) 423 square feet

323)

11 meters

3 meters

18 meters   5 meters
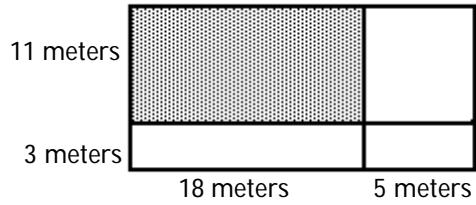
A) 104 square meters   B) 183 square meters
C) 208 square meters   D) 198 square meters

324)

12 meters

4 meters

18 meters   2 meters
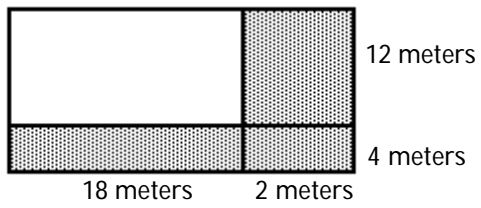
A) 114 square meters   B) 224 square meters
C) 104 square meters   D) 36 square meters

325)

11 meters

4 meters

20 meters   5 meters
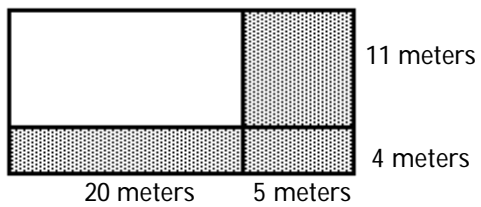
A) 155 square meters   B) 140 square meters
C) 145 square meters   D) 40 square meters

Complete the table.

326)

Input	Output
0	16 + 8 × 0 =
1	16 + 8 × 1 =
2	16 + 8 × 2 =

A)

Input	Output
0	16 + 8 × 0 = 0
1	16 + 8 × 1 = 8
2	16 + 8 × 2 = 16

B)

Input	Output
0	16 + 8 × 0 = 16
1	16 + 8 × 1 = 24
2	16 + 8 × 2 = 48

C)

Input	Output
0	16 + 8 × 0 = 0
1	16 + 8 × 1 = 24
2	16 + 8 × 2 = 48

D)

Input	Output
0	16 + 8 × 0 = 16
1	16 + 8 × 1 = 24
2	16 + 8 × 2 = 32

327)

Input	Output
0	21 − 4 × 0 =
1	21 − 4 × 1 =
2	21 − 4 × 2 =

A)

Input	Output
0	21 − 4 × 0 = 0
1	21 − 4 × 1 = 17
2	21 − 4 × 2 = 34

B)

Input	Output
0	21 − 4 × 0 = 21
1	21 − 4 × 1 = 17
2	21 − 4 × 2 = 34

C)

Input	Output
0	21 − 4 × 0 = 0
1	21 − 4 × 1 = 4
2	21 − 4 × 2 = 8

D)

Input	Output
0	21 − 4 × 0 = 21
1	21 − 4 × 1 = 17
2	21 − 4 × 2 = 13

Find the average.

328) 60, 82

   A) 71   B) 142   C) 72   D) 70

329) 152, 136

   A) 143   B) 288   C) 144   D) 145

330) 191, 197, 203

   A) 201   B) 194   C) 197   D) 196

331) 60, 53, 73   331) _____
    A) 186   B) 63   C) 62   D) 61

332) 27, 32, 31   332) _____
    A) 29   B) 30   C) 90   D) 31

333) 30, 35, 34, 41   333) _____
    A) 34   B) 36   C) 35   D) 140

334) Eight 6's and four 3's   334) _____
    A) 6   B) 4   C) 3   D) 5

335) 18 pounds, 23 pounds, 13 pounds   335) _____
    A) 18 pounds   B) 53 pounds   C) 54 pounds   D) 17 pounds

336) 66 hours, 65 hours, 58 hours   336) _____
    A) 64 hours   B) 190 hours   C) 189 hours   D) 63 hours

Solve.

337) A 41 -story high rise apartment has 304,753 square feet of space to rent. What is the average rental   337) _____
space on a floor?
    A) 12,494,873 sq ft   B) 19,778 sq ft   C) 7433 sq ft   D) 12,432 sq ft

338) For five 18 hole rounds of golf, your scores were 75, 74, 78, 71, 72. What was your average score?   338) _____
    A) 73   B) 75   C) 74   D) 72

339) For three months the sales for your department were $9108, $9608, $8608. What was your   339) _____
departmental average?
    A) $8108   B) $44,540   C) $8608   D) $9108

340) For four airplane, trips you experienced the following delays 28 minutes, 32 minutes, 20 minutes,   340) _____
24 minutes. What was the average delay?
    A) 104 min   B) 26 min   C) 25 min   D) 105 min

341) A survey of hourly wages stated that the hourly wages for an entry level worker for clerk's position   341) _____
were $8, $8, $11. Find the average hourly wage.
    A) $9   B) $28   C) $10   D) $27

342) The weights of five National Football League football players are 237 pounds, 211 pounds,   342) _____
209 pounds, 243 pounds, 255 pounds. Find the average weight.
    A) 215 lb   B) 1155 lb   C) 230 lb   D) 231 lb

343) For three days on your vacation you drove 504 miles, 478 miles, 476 miles. What was the average   343) _____
daily miles driven?
    A) 1458 mi   B) 487 mi   C) 1459 mi   D) 486 mi

344) In your department the ages of the employees are 28, 40, and 43. Find the average age of the three   344) _____
employees.
    A) 38   B) 37   C) 36   D) 35

345) Are these three numbers a Pythagorean triple?   345) _____
       8, 15, 17
          A) Yes
          B) No
          C) Not possible to determine

346) If an object is dropped off a cliff, after 7 seconds it will have fallen $\frac{32 \cdot 7^2}{2}$ feet, ignoring air   346) _____

       resistance. Express this distance in standard form, without exponents.
          A) 1568 ft   B) 65 ft   C) 784 ft   D) 39 ft

Choose a strategy and solve.
347) Your car gets about 29 miles per gallon. You are planning to drive to see your friends who live   347) _____
       about 644 miles away. How many gallons of gas will need to purchase to make the trip to see your
       friends and to return home? State your answer to the nearest gallon.
          A) About 29 gallons   B) About 20 gallons
          C) About 44 gallons   D) About 27 gallons

348) Originally your car cost $13,661. Four years later your car cost $19,291. How much did the price   348) _____
       increase?
          A) No increase, it was a decrease.   B) $4630
          C) $6630   D) $5630

349) Next year you anticipate that your property tax will be $4517. You have already saved $1427. How   349) _____
       much more do you need to save?
          A) No need to save, you have saved enough money.
          B) $2990
          C) $3090
          D) $3190

350) Tuition at your college is $45 per credit hour. You are planning to take four 3 credit hour courses.   350) _____
       What will the tuition bill be for all of your courses?
          A) $630   B) $180   C) $135   D) $540

351) While shopping for used books, you note that the average price is about $8 per book including tax.   351) _____
       You have $94 in your pocket. About how many books can you buy?
          A) 11 books   B) 15 books   C) 13 books   D) 8 books

352) You are planning a driving vacation, and you want to estimate the cost of the gas. While on   352) _____
       vacation, you are planning to drive 3000 miles. Your car gets about 30 miles per gallon, and you
       estimate that the cost of gas is $1.69 per gallon. What is your estimate for the cost of the gasoline for
       the the vacation?
          A) $169.00   B) $207.87   C) $135.20   D) $211.25

353) You are planning a driving vacation, and you want to estimate the cost of the gas. While on   353) _____
       vacation, you are planning to drive 3000 miles. Your car gets about 30 miles per gallon, and you
       estimate that the cost of gas is $1.86 per gallon. If your take home pay for your part time job
       $10 per hour, about how many hours will you need to work to pay for the gas? Round to the
       nearest hour.
          A) 186 hours   B) 18 hours   C) 16 hours   D) 20 hours

354) Your daily routine consists of driving 31 minutes to college in the morning, then driving 16 minutes to your job, and finally 16 minutes driving home. You do this every day, Monday through Friday. How many minutes do you spend in your car Monday through Friday on these routine trips? Express your answer in minutes.

    A) 325 minutes   B) 252 minutes   C) 315 minutes   D) 63 minutes

354) _____

355) Two years ago you weighed 224 pounds. A year ago you weighed 199 pounds, and this year you weigh 175 pounds. How many pounds did you lose overall?

    A) 25 pounds   B) No weight loss, you gained weight.
    C) 24 pounds   D) 49 pounds

355) _____

356) You need to purchase four tires for your car, and you found that the tire you need is $61.39 per tire installed including all taxes. You have $233 in your checking account. Do you have enough money in your checking account?

    A) No   B) Yes

356) _____

Use a calculator to solve.

357) After agreeing to purchase a car, you are told that your monthly payment will be $413.41 for 24 months. In addition, you are required to make a down payment of $1,000. What will be the total amount you will pay for the car?

    A) $10,021.84   B) $10,921.84   C) $9921.84   D) $8921.84

357) _____

358) You attend a college and are taking a mathematics class. A total of 32 students are registered for the course. The class is a 5 credit course, and the tuition rate is $35 per credit. What is the total amount of tuition paid by all the students in the class?

    A) $1120   B) $5600   C) $5590   D) $160

358) _____

359) A large company decided to reduce the number of its employees. Prior to the reduction the company employed 45,910 people. The company decided to fire 3027 employees. How people were employed after the reduction?

    A) 42,894 people   B) 42,883 people   C) 42,872 people   D) 48,937 people

359) _____

360) A large company decided to reduce the number of its employees. The company decided to fire 4589 employees. After the reduction the company employed 45,679 people. How people were employed prior to the reduction?

    A) 50,268 people   B) 41,101 people   C) 50,257 people   D) 41,090 people

360) _____

361) You have agreed purchase a washer and dryer for $1140 including installation and taxes. You also agree to make a down payment of $192 and pay the balance in four payments. How much is each of the four payments?

    A) $333   B) $237   C) $1150   D) $182

361) _____

Solve.

362) I am thinking of a whole number. My number, rounded to the nearest hundred, is 400. When the number is rounded to the nearest ten, it is 440. What numbers am I thinking of?

    A) 440, 441, 442, 443, 444   B) 435, 436, 437, 438, 439
    C) 450, 451, 452, 453, 454   D) 445, 446, 447, 448, 449

362) _____

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

363) Why is the symbol, 0, important for base ten number system?   363) _____

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

364) Write this expression in words.   364) _____
   3 + 16 = 19
      A) The difference between 3 and 16 is 19.   B) The quotient of 3 and 16 is 19.
      C) The sum of 3 and 16 is 19.   D) The product of 3 and 16 is 19.

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

365) Write a response.   365) _____
   Show that 35 ÷ 7 = 5 is repeated subtraction.

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

366) Answer the question true or false.   366) _____
   $7^2 + 9^2 = (7 + 9)^2$
      A) False   B) True

367) In this expression, which symbol is the base?   367) _____
   5^6
      A) 5^6 B) 5
      C) 6   D) There is no base in this expression.

368) In this expression, which symbol is the exponent?   368) _____
   4^5
      A) 4   B) 4^5
      C) 5   D) There is no exponent in this expression.

369) Use one of the following names to identify the property illustrated by this expression: associative,   369) _____
   commutative, identity, or distributive.
   25 + 88 = 88 + 25
      A) Identity   B) Commutative   C) Associative   D) Distributive

370) Use one of the following names to identify the property illustrated by this expression: associative,   370) _____
   commutative, identity, or distributive.
   50 + 0 = 50
      A) Commutative   B) Identity   C) Associative   D) Distributive

371) Use one of the following names to identify the property illustrated by this expression: associative,   371) _____
   commutative, identity, or distributive.
   24 × (47 + 71) = 24 × 47 + 24 × 71
      A) Associative   B) Identity   C) Distributive   D) Commutative

Provide an appropriate response.
372) Write one hundred fifty-nine thousand two hundred fifty-three in standard form.   372) _____
   A) 159,253   B) 590,253   C) 1,509,253   D) 592,053

35

373) Underline the digit that occupies the ten thousands place in 1,698,883.   373) _____
    A) 1,698,883   B) 1,698,883   C) 1,698,883   D) 1,698,883

374) Write 403,700,060 in words.   374) _____
    A) four hundred three million, seven hundred thousand, six hundred
    B) four hundred three million, seventy thousand, six
    C) four hundred three million, seventy thousand, sixty
    D) four hundred three million, seven hundred thousand, sixty

375) Round 793,749,621 to the nearest hundred thousand.   375) _____
    A) 700,000,000   B) 793,800,000   C) 800,000,000   D) 793,700,000

376) Find the sum of 1608 and 410.   376) _____
    A) 1918   B) 2018   C) 2008   D) 5708

377) Subtract 3752 from 9030.   377) _____
    A) 5278   B) 6722   C) 7788   D) 6388

378) Subtract: 80,000 – 37,632   378) _____
    A) 105,698   B) 57,632   C) 107,632   D) 42,368

379) Multiply: 557 × 605   379) _____
    A) 337,086   B) 336,684   C) 336,985   D) 336,975

380) Compute: $\dfrac{57,134}{49}$ 380) _____

    A) 1176 R 46   B) 1171 R 38   C) 1166   D) 1156

381) Find the quotient: $37\overline{)31,252}$ 381) _____
    A) 844   B) 844 R 20   C) 844 R 24   D) 24

382) Evaluate: 6^4 382) _____
    A) 24   B) 216   C) 4096   D) 1296

383) Write $3 \cdot 3 \cdot 5 \cdot 5 \cdot 5$ using exponents.   383) _____
    A) $2(3) \cdot 3(5)$ B) $3^5 \cdot 5^5$ C) $3 \cdot 5$ D) $3^2 \cdot 5^3$

Simplify.
384) $2 \cdot 4 + 4 \cdot 5^2$ 384) _____
    A) 160   B) 400   C) 108   D) 48

385) $65 - 2^3 \cdot (12 - 7)$ 385) _____
    A) 25   B) 38   C) 62   D) 285

Solve.
386) Last year the base model of a new car cost $15,568. This year's model costs $17,262. How much   386) _____
    more does this year's model cost?
    A) $32,830   B) $1694   C) $31,830   D) $1594

387) A plot of land which is up for sale is advertised as being 25 acres. If there are 43,560 square feet in an acre, how many square feet does the plot of land cover?   387) _____
   A) 1,089,500 sq ft   B) 1,088,750 sq ft   C) 43,585 sq ft   D) 1,089,000 sq ft

388) Ginger has a total of $2600 in her checking account. If she writes a check for each of the items below, how much money will be left in her account?   388) _____
phone $ 48
rent $750
car $429
   A) $1372   B) $1363   C) $1373   D) $1227

389) A florist filled four orders for wedding flowers and made the following amounts of money: $370, $796, and $817. How much money on the average did she make per order?   389) _____
   A) $686   B) $586   C) $710   D) $736

390) Vinyl sheet flooring is to be installed in an area shaped as shown. If the vinyl flooring costs $3 for each square meter, how much will it cost to cover the area?   390) _____

```
      29 m
    ┌────────┐ 7 m
    └──┐  ┌──┘
 23 m  │  │
       └──┘
       7 m
```
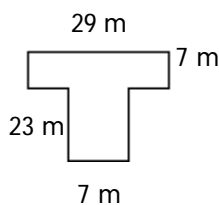
   A) $420   B) $1092   C) $720   D) $657

391) For lunch, you have an 8-ounce (oz) serving of skim milk, 1/2 cup of broccoli, and 2 cups of salmon salad. Based on the following table, how much more calcium do you need to reach the recommended 65 milligrams (mg)?   391) _____

Food	Quantity	Calcium Content
Skim milk	8 oz	29 mg
Broccoli	1 cup	16 mg
Salmon salad	1 cup	10 mg

   A) 7 mg   B) 8 mg   C) 28 mg   D) 10 mg

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

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

101) D
102) D
103) A
104) A
105) C
106) B
107) A
108) D
109) B
110) A
111) B
112) B
113) A
114) B
115) A
116) C
117) B
118) C
119) A
120) A
121) B
122) D
123) D
124) A
125) B
126) D
127) B
128) D
129) D
130) D
131) C
132) D
133) D
134) C
135) D
136) D
137) C
138) A
139) A
140) B
141) D
142) B
143) B
144) B
145) C
146) B
147) C
148) A
149) B
150) B

151) B
152) D
153) C
154) C
155) D
156) B
157) A
158) D
159) A
160) D
161) C
162) D
163) D
164) A
165) B
166) A
167) C
168) A
169) B
170) A
171) C
172) B
173) D
174) B
175) C
176) C
177) B
178) D
179) A
180) D
181) C
182) A
183) D
184) D
185) D
186) D
187) A
188) D
189) C
190) A
191) B
192) A
193) C
194) A
195) C
196) A
197) B
198) A
199) A
200) D

201) D
202) D
203) B
204) A
205) D
206) C
207) A
208) B
209) A
210) C
211) B
212) A
213) C
214) A
215) B
216) C
217) C
218) B
219) D
220) D
221) D
222) A
223) A
224) B
225) A
226) D
227) B
228) C
229) D
230) D
231) A
232) D
233) C
234) A
235) B
236) A
237) B
238) C
239) C
240) D
241) B
242) D
243) D
244) B
245) D
246) D
247) B
248) B
249) D
250) C

251) C
252) C
253) B
254) B
255) C
256) B
257) C
258) B
259) A
260) B
261) D
262) C
263) C
264) D
265) D
266) D
267) B
268) A
269) B
270) D
271) A
272) D
273) A
274) A
275) C
276) B
277) B
278) C
279) D
280) D
281) C
282) C
283) A
284) B
285) B
286) A
287) A
288) A
289) C
290) A
291) A
292) D
293) A
294) D
295) A
296) C
297) C
298) A
299) B
300) C

301) A
302) D
303) B
304) D
305) D
306) D
307) D
308) D
309) A
310) C
311) C
312) A
313) D
314) B
315) D
316) C
317) D
318) C
319) D
320) C
321) C
322) C
323) D
324) C
325) A
326) D
327) D
328) A
329) C
330) C
331) C
332) B
333) C
334) D
335) A
336) D
337) C
338) C
339) D
340) B
341) A
342) D
343) D
344) B
345) A
346) C
347) C
348) D
349) C
350) D

351) A
352) A
353) B
354) C
355) D
356) A
357) B
358) B
359) B
360) A
361) B
362) A
363) The symbol, 0, is a place holder and enables the reader to easily distinguish between 302, 3,002 and 320. Thus, identical symbols can be used for a variety of numbers.
364) C
365) 7 can be subtracted five times from 35.
366) A
367) B
368) C
369) B
370) B
371) C
372) A
373) D
374) D
375) D
376) B
377) A
378) D
379) C
380) C
381) C
382) D
383) D
384) C
385) A
386) B
387) D
388) C
389) A
390) B
391) B