59

NUMBER SERIES-264

Directions (Q. 1-5): In each of the following number series, a wrong number is given. Find out that number.

1.   1, 12, 31, 63, 101, 156, 227
        (1) 31   (2) 63   (3) 101   (4) 156   (5) 227
2.   4, 9, 28, 99, 415, 2105, 12660
        (1) 9   (2) 28   (3) 99   (4) 415   (5) 2105
3.   7, 26, 64, 124, 215, 342, 511
        (1) 26   (2) 64   (3) 124   (4) 215   (5) 342
4.   9, 28, 63, 120, 205, 323, 483
        (1) 28   (2) 63   (3) 120   (4) 205   (5) 323
5.   26, 57, 102, 164, 250, 366, 518
        (1) 57   (2) 102   (3) 164   (4) 250   (5) 366

Directions (Q. 6-10): In each of the following number series, a wrong number is given. Find out the wrong number.

6.   30, 210, 742, 1716, 3390, 5814
        (1) 210   (2) 742   (3) 1716   (4) 3390   (5) 5814
7.   1440, 1152, 930, 766, 651, 580, 542
        (1) 930   (2) 766   (3) 651   (4) 580   (5) 542
8.   18, 59, 187, 576, 1749, 5269
        (1) 59   (2) 187   (3) 576   (3) 1749   (5) 5269
9.   7, 22, 64, 216, 898, 4525, 27190
        (1) 64   (2) 216   (3) 898   (4) 4525   (5) 27190
10.   16, 9278, 15109, 18484, 20212, 20941, 21157
        (1) 9278   (2) 15109   (3) 18484   (4) 20212   (5) 20941

Directions (Q. Nos. 11-15) What will come in place of question mark (?) in the following number series?

11.   1 7 49 343 (?)
        (1) 16807   (2) 1227   (3) 2058   (4) 2401   (5) None of these
12.   13 20 39 78 145 (?)
        (1) 234   (2) 244   (3) 236   (4) 248   (5) None of these
13.   12 35 81 173 357 (?)
        (1) 725   (2) 715   (3) 726   (4) 736   (5) None of these
14.   3 100 297 594 991 (?)
        (1) 1489   (2) 1479   (3) 1478   (4) 1498   (5) None of these
15.   112 119 140 175 224 (?)
        (1) 277   (2) 276   (3) 287   (4) 266   (5) None of these

Directions (Q. 16 - 20): In each of the following number series, a wrong number is given. Find out that number.

16.   4, 5, 18, 80, 388, 2065, 12606
        (1) 5   (2) 18   (3) 80   (4) 388   (5) 2065
17.   22, 51, 88, 133, 186, 248, 316
        (1) 51   (2) 88   (3) 133   (4) 186   (5) 248
18.   7, 9, 21, 57, 137, 284, 539
        (1) 9   (2) 21   (3) 57   (4) 137   (5) 284

LEARN MATHS FROM S.K. RAJU (9811549822, 9811649822)

60

19.   3, 17, 83, 371, 1907, 11507, 80627
       (1) 17   (2) 83   (3) 371   (4) 1907   (5) 11507
20.   8, 9, 25, 105, 362, 987, 2283
       (1) 9   (2) 25   (3) 105   (4) 362   (5) 987

Directions (Q. 21-25): In each of the following number series, a wrong number is given. Find out the wrong number.

21.   6, 39, 213, 1090, 5496, 27525
       (1) 39   (2) 213   (3) 1090   (4) 5496   (5) 27525
22.   17, 141, 358, 701, 1213, 1942
       (1) 141   (2) 358   (3) 701   (4) 1213   (5) 1942
23.   6, 14, 51, 249, 1486, 10401
       (1) 14   (2) 51   (3) 249   (4) 1486   (5) 10401
24.   8, 24, 88, 232, 488, 887
       (1) 24   (2) 88   (3) 232   (4) 488   (5) 887
25.   8, 21, 85, 421, 2521, 17641
       (1) 21   (2) 85   (3) 421   (4) 2521   (5) 17641

Directions (Q. 26-30): In each of the following number series, a wrong number is given. Find out the wrong number.

26.   13, 16, 38, 124, 504, 2535
       (1) 16   (2) 38   (3) 124   (4) 504   (5) 2535
27.   6, 10, 32, 111, 464, 2345
       (1) 10   (2) 32   (3) 111   (4) 464   (5) 2345
28.   8, 18, 64, 272, 1395, 8424
       (1) 18   (2) 64   (3) 272   (4) 1395   (5) 8424
29.   80, 105, 195, 478, 1350, 3975
       (1) 105   (2) 195   (3) 478   (4) 1350   (5) 3975
30.   8, 18, 78, 420, 2424, 15270
       (1) 18   (2) 78   (3) 420   (4) 2424   (5) 15270

Directions (Q. 31-35): What should come in place of question mark (?) in the following number series?

31.   9480, 5384, 8759, 6015, 8212, ?
       (1) 6218   (2) 6484   (3) 6692   (4) 6816   (5) None of these
32.   12, 21, 78, 458, 3649, ?
       (1) 36039   (2) 36248   (3) 36469   (4) 36878   (5) None of these
33.   8, 71, 565, 3950, 23693, ?
       (1) 118456   (2) 118214   (3) 118684   (4) 118724   (5) None of these
34.   6, 7, 9, 36, 40, ?
       (1) 92   (2) 108   (3) 148   (4) 151   (5) 165
35.   14, 24, 32, 44, 108, 122, ?
       (1) 212   (2) 338   (3) 436   (4) 647   (5) 555

Directions (Q.36-40) What will come in place of question mark (?) in the following number series ?

36.   17 19 33 (?) 129 227
       (1) 64   (2) 73   (3) 67   (4) 72   (5) None of these
37.   35 256 451 620 763 (?)
       (1) 680   (2) 893   (3) 633   (4) 880   (5) None of these

LEARN MATHS FROM S.K. RAJU (9811549822, 9811649822)

61

38. 18 139 868 917 (?) 1051
    (1) 1042   (2) 1036   (3) 942   (4) 996   (5) None of these '
39. 2890 (?) 1162 874 730 658
    (1) 1684   (2) 1738   (3) 1784   (4) 1672   (5) None of these
40. 14 1004 1202 1251.5 1268 (?)
    (1) 1267.5   (2) 1276.25   (3) 1324.5   (4) 1367.25   (5) None of these

Directions (Q. 41-45): Which is the next number in the given number series.

41. 8, 14, 40, 138, 576, ?
    (1) 2910   (2) 2915   (3) 2920   (4) 2925   (5) 2930
42. 17, 98, 260, 829, 3352, ?
    (1) 16680   (2) 16785   (3) 16890   (4) 16995   (5) 17000
43. 600, 120, 144, 316.8, ?
    (1) 1011.84   (2) 1012.96   (3) 1013.76   (4) 1014.12   (5) 1015.25
44. 472, 1450, 3406, 6340, 10252, ?
    (1) 15142   (2) 15144   (3) 15146   (4) 15148   (5) 15150
45. 8, 18, 42, 108, 300, 870, ?
    (1) 2570   (2) 2572   (3) 2574   (4) 2576   (5) 2578

Directions (Q. 46-50): What is the next number in the given number series?

46. 27,1358, 3086, 5283, 8027
    (1) 11401   (2) 11402   (3) 11403   (4) 11404   (5) 11405
47. 17, 68, 238, 867, 3672, ?
    (1) 18611   (2) 18612   (3) 18613   (4) 18614   (5) 18615
48. 64, 96, 288, 1296, 7776, ?
    (1) 58310   (2) 58320   (3) 58330   (4) 58340   (5) 58350
49. 42, 50, 132, 468, 2000, ?
    (1) 10200   (2) 10300   (3) 10400   (4) 10500   (5) 10600
50. 96, 128, 371, 1395, 4520, ?
    (1) 12292   (2) 12294   (3) 12296   (4) 12298   (5) 12300

Directions (Q. 51-55): Which is the next number in the following number series?

51. 112, 229, 286, 520, 634, 985, ?
    (1) 1152   (2) 1154   (3) 1156   (4) 1158   (5) 1160
52. 17, 38, 122, 500, 2516, ?
    (1) 15115   (2) 15116   (3) 15117   (4) 15118   (5) 15119
53. 48, 72, 144, 360, 1080, ?
    (1) 3780   (2) 3782   (3) 3784   (4) 3786   (5) 3790
54. 7, 71, 583, 2311, 6407, 14407, ?
    (1) 24231   (2) 25231   (3) 26231   (4) 27231   (5) 28231
55. 19874, 19858, 19777, 19521, 18896, ?
    (1) 17600   (2) 17500   (3) 17400   (4) 17300   (5) 17200

Directions (Q. 56-60): What will be the next number in the following number series?

56. 15, 115, 126, 270, 283, 479, ?
    (1) 536   (2) 554   (3) 584   (4) 592   (5) None of these
57. 23, 312, 673, 1114, 1643, ?
    (1) 2024   (2) 2160   (3) 2268   (4) 2304   (5) 2412
58. 6, 28, 110, 476, 2426, ?
    (1) 14612   (2) 14512   (3) 14412   (4) 14312   (5) 14212

LEARN MATHS FROM S.K. RAJU (9811549822, 9811649822)

62

59.   15, 57, 168, 417, 942, ?
      (1) 1816   (2) 1904   (3) 2019   (4) 2146   (5) 2251
60.   12, 24, 44, 74, 116, ?
      (1) 164   (2) 172   (3) 178   (4) 184   (5) 196

Directions (Q. 61-65): Find the next number in the following number series.

61.   215, 302, 517, 732, 947, 1162, ?
      (1) 1372   (2) 1375   (3) 1377   (4) 1379   (5) 1381
62.   192, 292, 400, 516, 640, ?
      (1) 770   (2) 772   (3) 774   (4) 776   (5) 778
63.   19, 29, 41, 55, 71, ?
      (1) 89   (2) 91   (3) 93   (4) 95   (5) 97
64.   768, 512, 320, 192, 112, ?
      (1) 56   (2) 64   (3) 72   (4) 96   (5) 84
65.   18, 42, 78, 132, 210, ?
      (1) 310   (2) 312   (3) 314   (4) 316   (5) 318

Directions (Q. 66-70) : Find the next number in the place of question mark (?) in the following number series.

66.   4, 13, 54, 273, 1642, ?
      (1) 10432   (2) 10968   (3) 11120   (4) 11499   (5) 11562
67.   3, 14, 66, 312, 1640, ?
      (1) 9950   (2) 9960   (3) 9970   (4) 9980   (5) 9990
68.   3, 8, 16, 15, 42, 29, 81, ?
      (1) 50   (2) 54   (3) 72   (4) 78   (5) 96
69.   6, 42, 114, 258, 546, ?
      (1) 1116   (2) 1118   (3) 1120   (4) 1122   (5) 1124
70.   484, 729, 1024, 1369, 1764, ?
      (1) 2204   (2) 2206   (3) 2209   (4) 2212   (5) 2215

Directions (Q. 71-75) : What will be the next number in the following number series?

71.   27   76   272   713   1497   ?
      (1) 2720   (2) 2721   (3) 2722   (4) 2723   (5) 2724
72.   68   216   444   752   1140   ?
      (1) 1600   (2) 1602   (3) 1604   (4) 1606   (5) 1608
73.   7   14   35   78   151   262   ?
      (1) 417   (2) 419   (3) 421   (4) 423   (5) 425
74.   3   35   99   195   323   483   ?
      (1) 645   (2) 655   (3) 665   (4) 675   (5) 685
75.   5   7   19   49   105   195   ?
      (1) 323   (2) 325   (3) 327   (4) 329   (5) 331

Directions (Q. 76-80): What number should come in place of question mark in the following number series?

76.   5,   21,   57,   121,   221,   365,   ?
      (1) 536   (2) 561   (3) 584   (4) 604   (5) 628
77.   5, 49, 481, 3841, ?
      (1) 23041   (2) 22031   (3) 21021   (4) 20011   (5) 19001
78.   8, 19, 52, 151, 448, ?

LEARN MATHS FROM S.K. RAJU (9811549822, 9811649822)

63

(1) 1120   (2) 1148   (3) 1236   (4) 1284   (5) 1339

79. 9801, 9604, 9409, 9216, 9025, ?

(1) 8836   (2) 8792   (3) 8688   (4) 8542   (5) 8466

80. 339, 733, 1327, 2201, 3371, ?

(1) 4677   (2) 4757   (3) 4837   (4) 4917   (5) 5007

Directions (Q. 81-85): What will be the next number in the following number series?

81. 3, 14, 83, 254, 627, ?

(1) 1292   (2) 1294   (3) 1296   (4) 1298   (5) 1300

82. 18, 31, 83, 317, 1565, ?

(1) 9365   (2) 9375   (3) 9385   (4) 9395   (5) 9405

83. 43, 145, 381, 841, 1639, ?

(1) 2911   (2) 2913   (3) 2915   (4) 2917   (5) 2919

84. 27, 38, 64, 86, 125, ?

(1) 152   (2) 154   (3) 156   (4) 158   (5) 160

85. 12, 39, 120, 363, 1092, ?

(1) 3275   (2) 3279   (3) 3284   (4) 3287   (5) 3291

Directions (Q. 86-88) : What will come in place of question mark (?) in the following number series?

86. 5   15   35   75   155   (?)

(1) 295   (2) 315   (3) 275   (4) 305   (5) None of these

87. 3   6   18   72   360   (?)

(1) 2160   (2) 1800   (3) 2520   (4) 1440   (5) None of these

88. 688   472   347   283   256   (?)

(1) 236   (2) 229   (3) 255   (4) 248   (5) None of these

Directions (Q. 89-93): Find out the next number in place of question mark (?) in the following number series.

89. 25,   42,   85,   174,   335,   ?

(1) 525   (2) 575   (3) 600   (4) 612   (5) 650

90. 365,   728,   2160,   8532,   42340,   ?

(1) 253275 .   (2) 253280   (3) 253285   (4) 253290   (5) 253295

91. 62,   177,   512,   1507,   4482,   ?

(1) 13396   (2) 13397   (3) 13398   (4) 13399   (5) 13400

92. 21,   12342,   22543,   30824,   37385,   ?

(1) 42422   (2) 42424   (3) 42426   (4) 42428   (5) 42430'

93. 800,   160,   48,   19.2,   9.6   ?

(1) 6.48   (2) 5.76   (3) 5.12   (4) 4.84   (5) 4.56

Directions (Q. 94-98): Find the next number in place of question mark (?) in the following number series.

94. 57, 66, 101, 192, 381, ?

(1) 722   (2) 724   (3) 726   (4) 728   (5) 730'

95. 7, 19, 55, 163, 487, ?

(1) 1451   (2) 1453   (3) 1455   (4) 1457   (5) 1459

96. 12, 28, 92, 236, 492, 892, ?

(1) 1458   (2) 1468   (3) 1478   (4) 1488   (5) 1498

97. 8400, 7376, 6592, 6016, 5616, ?

(1) 5360   (2) 5370   (3) 5380   (4) 5390   (5) 5400

98. 7.8, 20.6, 51.2, 117.4, 254.8, ?

LEARN MATHS FROM S.K. RAJU (9811549822, 9811649822)

64

(1) 530.6　　　(2) 532.6　　　(3) 534.6　　　(4) 536.6　　　(5) 538.6

Directions (Q. 99-103) : Find the next number in the following number series.

99. 63　　95　　119　　135　　143　　?
(1) 151　　　(2) 157　　　(3) 162　　　(4) 168　　　(5) None of these

100. 4　　20　　101　　357　　982　　?
(1) 1632　　　(2) 1848　　　(3) 2040　　　(4) 2278　　　(5) 2412

101. 14　　50　　166　　522　　1598　　?
(1) 4832　　　(2) 4834　　　(3) 4836　　　(4) 4838　　　(5) 4840

102. 4830　4556　4290　4032　3782　?
(1) 3510　　　(2) 3520　　　(3) 3530　　　(4) 3540　　　(5) 3550

103. 1320　1313　1288　1227　1106　?
(1) 875　　　(2) 880　　　(3) 885　　　(4) 890　　　(5) 895

Directions (Q.104-108)　In each of these questions a number series is given. In each series only one number is wrong. Find out the wrong number.

104. 5531　　5506　　5425　　5304　　5135　　4910　　4621
(1) 5531　　　(2) 5425　　　(3) 4621　　　(4) 5135　　　(5) 5506

105. 6　　7　　9　　13　　26　　37　　69
(1) 7　　　(2) 26　　　(3) 69　　　(4) 37　　　(5) 9

106. 1　3　10　36　152　760　4632
(1) 3　　　(2) 36　　　(3) 4632　　　(4) 760　　　(5) 152

107. 4　3　9　34　96　219　435
(1) 4　　　(2) 9　　　(3) 34　　　(4) 435　　　(5) 219

108. 157.5　45　15　6　3　2　1
(1) 1　　　(2) 2　　　(3) 6　　　(4) 157.5　　　(5) 45

Directions (Q. 109-113) : Find out the next number in place of question mark (?) in the following number series.

109. 27,　50,　192,　1140,　9104,　?
(1) 90080　　　(2) 91020　　　(3) 92410　　　(4) 92740　　　(5) None of these

110. 16,　49,　345,　3798,　?
(1) 56974　　　(2) 56812　　　(3) 55784　　　(4) 54312　　　(5) None of these

111. 5,　47,　417,　3327,　23277,　?
(1) 131642　　　(2) 133712　　　(3) 135416　　　(4) 139647　　　(5) None of these

112. 3,　37,　285,　1749,　8797,　?
(1) 34856　　　(2) 35062　　　(3) 35253　　　(4) 35416　　　(5) 35622

113. 7,　736,　1248,　1591,　1807,　?
(1) 1932　　　(2) 2008　　　(3) 2140　　　(4) 2190　　　(5) 2216

Directions (Q. 114-118) : What will come in place of question mark (?) in the following number series?

114. 161　199　241　287　337　?
(1) 391　　　(2) 401　　　(3) 412　　　(4) 416　　　(5) 421

115. 141　2885　4613　5613　6125　?
(1) 6311　　　(2) 6321　　　(3) 6331　　　(4) 6341　　　(5) 6351

116. 1664　4160　1040　2600　?　1625
(1) 630　　　(2) 640　　　(3) 650　　　(4) 660　　　(5) 675

117. 43.5　57　70.5　84　97.5　?
(1) 109　　　(2) 111　　　(3) 115　　　(4) 121　　　(5) 124

118. 5　87　601　?　10785　26415
(1) 2775　　　(2) 2848　　　(3) 2915　　　(4) 3005　　　(5) 3135

Directions (Q. 119-123): What will be the next number in the question mark (?) in the following number series?

119. 7922, 7746, 7572, 7400, 7230, ?
(1) 7060　　　(2) 7062　　　(3) 7064　　　(4) 7066　　　(5) 7068

LEARN MATHS FROM S.K. RAJU (9811549822, 9811649822)

65

120.   54, 68, 84,   102,   122,   144, ?
    (1) 162   (2) 164   (3) 166   (4) 168   (5) 170
121.   18, 32, 74,   200,   578,   1712, ?
    (1) 5110   (2) 5112   (3) 5114   (4) 5116   (5) 5118
122.   7, 1338, 2067, 2410, 2535,   2562,   ?
    (1) 2563   (2) 2572   (3) 2584   (4) 2590   (5) None of these
123.   36, 77, 241, 979, 4915, ?
    (1) 29505   (2) 29510   (3) 29515   (4) 29520   (5) 29525

Directions (Q. 124-128) : Find out the next number in place of question mark(?) in the following number series.

124.   1320   990   720   504   336   ?
    (1) 204   (2) 206   (3) 208   (4) 210   (5) 212
125.   8   73   587   4114   24691 ?
    (1) 123456   (2) 123464   (3) 123454   (4) 123446   (5) None of these
126.   81   512   2401   7776   ?
    (1) 12525   (2) 14275   (3) 15625   (4) 17525   (5) 18250
127.   5679   5560   5322   4965   4489   ?
    (1) 3890   (2) 3891   (3) 3892   (4) 3893   (5) 3894
128.   12   27   73   212   630   1885   ?
    (1) 5651   (2) 5652   (3) 5653   (4) 5654   (5) 5655

Directions (Q. 129-133) : Find out the next number in the following number series.

129.   840   1112   1322   1478   1588   ?
    (1) 1672   (2) 1668   (3) 1665   (4) 1662   (5) 1660
130.   76   588   2316   6412   14412   ?
    (1) 28216   (2) 28226   (3) 28236   (4) 28246   (5) 28256
131.   20   100   244   452   724   1060   ?
    (1) 1450   (2) 1460   (3) 1470   (4) 1480   (5) 1490
132.   4984   4408   3967   3643   3418   3274   ?
    (1) 3193   (2) 3183   (3) 3173   (4) 3163   (5) 3153
133.   1338 2328   3048   3552   3888   4098   ?
    (1) 4332   (2) 4223   (3) 4218   (4) 4232   (5) 4323

Directions (Q. 134-136) : What will come in place of question mark (?) in the following number series?

134.   987, 587 331   187   123   ?
    (1) 104   (2) 113   (3) 107   (4) 114   (5) None of these
135.   125   171   263   401   585   ?
    (1) 835   (2) 815   (3) 792   (4) 788   (5) None of these
136.   121   132   167   226   309   ?
    (1) 424   (2) 413   (3) 427   (4) 416   (5) None of these

Directions (Q. 137-138) : In the following number series, only one is wrong. Find out the wrong number.

137.   454 327 648 524 842 713   1036
    (1) 327   (2) 648   (3) 521   (4) 842   (5) 713
138. 72.5 86 113   168 275 491 923
    (1) 86   (2) 113   (3) 168   (4) 275   (5) 491

Directions (Q. 139 - 143) : Find out the number in place of question mark(?) in the following number series.

139.   112   121   146   195   276   ?   566
    (1) 381   (2) 392   (3) 397   (4) 403   (5) 411
140.   1365   2590   4190 6215   ?   11740
    (1) 8525   (2) 8715   (3) 8945   (4) 9175   (5) 9295

LEARN MATHS FROM S.K. RAJU (9811549822, 9811649822)

66

141. 5   153   2430   ?   350053   3150801
    (1) 29615   (2) 29832   (3) 30640   (4) 30998   (5) 31798
142. 240   163   108   75   64   ?
    (1) 55   (2) 52   (3) 51   (4) 45   (5) None of these
143. 12.8   11.52   10.16   8.82   7.5   ?   4.92
    (1) 6.20   (2) 6.14   (3) 5.84   (4) 5.44   (5) 5.12

Directions (Q. 144-148) : Find out the next number in place of question mark (?) in the following number series.

144. 1   8   21   42   73   116   ?
    (1) 173   (2) 177   (3) 181   (4) 184   (5) 187
145. 15   96   160   209   245   ?
    (1) 295   (2) 286   (3) 278   (4) 270   (5) 264
146. 5   16   25.8   37.8   52   68.4   ?
    (1) 82.8   (2) 84   (3) 85.4   (4) 87   (5) 89.2
147. 12   37   43   92   100   ?
    (1) 132   (2) 158   (3) 164   (4) 181   (5) 195
148. 1   28   92   217   433   776   ?
    (1) 924   (2) 1148   (3) 1288   (4) 1304   (5) 1321

Directions (Q. 149–153) : In each of these questions a number series is given. In each series only one number is wrong. Find out the wrong number.

149. 4   11   36   96   218   429
    (1) 11   (2) 36   (3) 96   (4) 218   (5) 429
150. 68   127   333   1232   5985   35640
    (1) 127   (2) 333   (3) 1232   (4) 5985   (5) 35640
151. 14   17   35   83   188   379
    (1) 17   (2) 35   (3) 83   (4) 188   (5) 379
152. 1248   1872   4680   16380   73712   405405
    (1) 1872   (2) 4680   (3) 16380   (4) 73712   (5) 405405
153. 36   20   44   28   64   40   96   62
    (1) 20   (2) 44   (3) 28   (4) 64   (5) 40

Directions (Q, 154-158) : What will come in place of question mark (?) in the following number series?

154. 123   277   459   669   907   ?
    (1) 1179   (2) 1173   (3) 1167   (4) 1169   (5) None of these
155. 456.5   407   368.5   341   324.5''?
    (1) 321   (2) 319   (3) 317   (4) 323   (5) None of these
156. 23   42.2   80.6   157.4   311   ?
    (1) 618.2   (2) 623.6   (3) 624.2   (4) 616.6   (5) None of these
157. 36   154   232   278   300   ?
    (1) 304   (2) 313   (3) 308   (4) 307   (5) None of these
158. 24   536   487   703   678   ?
    (1) 768   (2) 748   (3) 764   (4) 742   (5) None of these

Directions (Q. 159-163) : Find out the number in place of question mark(?) in the following number series.

159. 232   360   530   748   1020   ?
    (1) 1350   (2) 1352   (3) 1354   (4) 1356   (5) 1358
160. 6   21   101   601   4201   ?
    (1) 33601   (2) 33602   (3) 33603   (4) 33604   (5) 33605
161. 117   365   861   1853   3837   ?
    (1) 7801   (2) 7802   (3) 7803   (4) 7804   (5) 7805
162. 15   66   321   1596   7971   ?
    (1) 39842   (2) 39844   (3) 39846   (4) 39848   (5) 39850

LEARN MATHS FROM S.K. RAJU (9811549822, 9811649822)

67

163. 27   370   1099   2430   4627   ?
(1) 8002   (2) 8004   (3) 8006   (4) 8008   (5) 8010

Directions (Q. 164-168) : Find out the number in place of question mark(?) in the following number series.

164. 2   29   93   218   434   777   1289   ?
(1) 2015   (2) 2016   (3) 2017   (4) 2018   (5) 2019

165. 3   10   46   284   2282   22832 ?
(1) 273994   (2) 273996   (3) 273998   (4) 273992   (5) 273990

166. 13   39   73   115   165   223   ?
(1) 289   (2) 287   (3) 285   (4) 283   (5) 281

167. 13   19   50   168   696   3510   ?
(1) 21090   (2) 21092   (3) 21094   (4) 21096   (5) 21098

168. 11   31   55   83   115   151   ?
(1) 190   (2) 191   (3) 192   (4) 193   (5) 194

Directions (Q. 169-173) : Find out the number in place of question mark(?) in the following number series.

169. 429   351   281   219   165   ?
(1) 72   (2) 119   (3) 64   (4) 123   (5) 72

170. 900 810 448 392 180 ?
(1) 48   (2) 150   (3) 90   (4) 45   (5) 78

171. 330   261   200   147   102   ?
(1) 105   (2) 103   (3) 102   (4) 98   (5) 65

172. 66.5   93.5   112.5   123.5   126.5   ?
(1) 121.5   (2) 108.5   (3) 138.9   (4) 136.9   (5) 135.9

173. 39   48   53   54   51   ?
(1) 59   (2) 44   (3) 33   (4) 46   (5) 48

Directions (Q. 174-178) : Find out the next number in place of question mark (?) in the following number series.

174. 150   252   392   576   810   ?
(1) 1100   (2) 1200   (3) 1300   (4) 1089   (5) 1144

175. 100   3700   10900   21700   36100   ?
(1) 37528   (2) 44881   (3) 95964   (4) 78873   (5) 54100

176. 1482   1406   1332   ?   1190   1122
(1) 1352   (2) 1781   (3) 1260   (4) 3192   (5) 1159

177. 2   12   30   56   ?   132
(1) 78   (2) 88   (3) 90   (4) 84   (5) 81

178. 1023   1224   ?   1680   1935   2208
(1) 1395   (2) 1482   (3) 1443   (4) 1485   (5) 1681

Directions (Q. 179-183): In each of these questions a number series is given. In each series only one number is wrong. Find out the wrong number.

179. 1716   1320   1000   720   504   336   210
(1) 720   (2) 504   (3) 1000   (4) 210   (5) 336

180. 1217   1083   957   833   720   618   524
(1) 720   (2) 833   (3) 618   (4) 524   (5) 957

181. 16   47   199   771   2283   4585   4581
(1) 4581   (2) 199   (3) 4585   (4) 2283   (5) 771

182. 2769 2213   1737   1335   1000   810   576
(1) 810   (2) 1335   (3) 2213   (4) 576   (5) 1000

183. 165   286   363   396   385   350   231

LEARN MATHS FROM S.K. RAJU (9811549822, 9811649822)

68

(1) 350 (2) 363 (3) 396 (4) 231 (5) 286

Directions (Q. 184-188) : In each of these questions a number series is given. In each series only one number is wrong. Find out the wrong number.

184. 6821 5868 4879 4130 3345 2272 2171
 (1) 4879 (2) 4130 (3) 2171 (4) 3345 (5) 2272
185. 1095 1217 1379 1508 1686 1842 2034
 (1) 1508 (2) 1686 (3) 1842 (4) 2034 (5) 1379
186. 31.5 47.5 59.5 67.5 71.5 79.5 67.5
 (1) 71.5 (2) 79.5 (3) 31.5 (4) 59.5 (5) 47.5
187. 15 8 35 24 63 49 99
 (1) 35 (2) 63 (3) 49 (4) 24 (5) 8
188. 132 200 253 288 308 312 300
 (1) 132 (2) 253 (3) 288 (4) 312 (5) 308

Directions (Q. 189-191) : What will come in place of question mark (?) in the following number series.

189. 53 74 123 100 145 ?
 (1) 196 (2) 172 (3) 136 (4) 96 (5) 78
190. 145 180 395 444 813 ?
 (1) 900 (2) 948 (3) 975 (4) 1015 (5) 1125
191. 12 24 84 112 220 ?
 (1) 248 (2) 264 (3) 278 (4) 284 (5) 296

Directions (Q. 192-194): What will come in place of question mark (?) in the following number series?

192. 180 364 528 648 700 ?
 (1) 840 (2) 800 (3) 760 (4) 720 (5) 660
193. 1 33 161 513 1249 ?
 (1) 2213 (2) 2353 (3) 2463 (4) 2593 (5) 2603
194. 28 126 378 860 1720 ?
 (1) 3066 (2) 2066 (3) 3056 (4) 3266 (5) None of these

195. What will come in place of question mark (?) in the given number series

 7, 15, 53, 239, 1259, ?
 (1) 7246 (2) 7312 (3) 7468 (4) 7549 (5) 7679

Directions (Q. 196-200) : Find out the number in place of question mark (?) in the following number series.

196. 529 841 961 1369 1681 1849 ?
 (1) 2809 (2) 3249 (3) 2208 (4) 6424 (5) 2209
197. 1108 1117 1142 1191 ? 1481
 (1) 1312 (2) 1272 (3) 1300 (4) 1204 (5) None of these
198. 841 961 1089 1225 1369 1521 ?
 (1) 1785 (2) 1581 (3) 1681 (4) 1881 (5) 1781
199. 12 14 32 102' 416 2090 ?
 (1) 15522 (2) 12552 (3) 13525 (4) 17552 (5) None of these
200. 384 381 372 345 264 ?
 (1) 25 (2) 27 (3) 44 (4) 49 (5) None of these

Directions (Q. 201-205) : Find the number in place of question mark (?) in the following number series.

LEARN MATHS FROM S.K. RAJU (9811549822, 9811649822)

69

201. 3   81   ?   1029   2187   3993
  (1) 375   (2) 648   (3) 192   (4) 575   (5) 243
202. 30   45   75   105   165   ?
  (1) 185   (2) 205   (3) 215   (4) 195   (5) 230
203. 8   24   12   36   18   54   ?
  (1) 64   (2) 79   (3) 34   (4) 37   (5) 27
204. 4320   720   144   ?   12   6   6
  (1) 56   (2) 60   (3) 26   (4) 36   (5) 16
205. 26   63   124   215   342   ?
  (1) 511   (2) 509   (3) 504   (4) 515   (5) 525

Directions (Q. 206-210): Find the number that will come in place of question mark (?) in the following number series.

206. 90   110   132   156   182   ?
  (1) 207   (2) 307   (3) 309   (4) 323   (5) 210
207. 2   18   95   384   1155   ?
  (1) 2212   (2) 2629   (3) 2735   (4) 2312   (5) 2412
208. 7   18   51   106   183   ?
  (1) 282   (2) 395   (3) 295   (4) 280   (5) None of these
209. 37   42   57   82   117   ?
  (1) 166   (2) 162   (3) 157   (4) 159   (5) None of these
210. 33   321   465   537   573   591   ?
  (1) 600   (2) 610   (3) 590   (4) 595   (5) None of these

Directions (Q. 211-215): In each of these questions a number series is given. In each series only one number is wrong. Find out the wrong number,

211. 17   20   46   147   599   3015   18108
  (1) 20   (2) 46   (3) 599   (4) 147   (5) 3015
212. 9   14   40   129   536   2705   16260
  (1) 14   (2) 40   (3) 536   (4) 9   (5) 129
213. 8   18   64   272   1395   8424   59045
  (1) 18   (2) 64   (3) 272   (4) 1395   (5) 8424
214. 90   135   286   750   2160   6405   19155
  (1) 90   (2) 750   (3) 6405   (4) 286   (5) 2160
215. 17   36   132   635   3500   21750   153762
  (1) 635   (2) 700   (3) 132   (4) 3500   (5) 36

Directions (Q. 216-220): In each of these questions a number series is given. In each series only one number is wrong. Find out the wrong number.

216. 3   14   40   84   155   258
  (1) 84   (2) 14   (3) 40   (4) 155   (5) 258

217. $\dfrac{3}{2}$ $\dfrac{2}{3}$ $\dfrac{5}{12}$ $\dfrac{3}{14}$ $\dfrac{7}{30}$ $\dfrac{4}{21}$ $\dfrac{9}{56}$

  (1) $\dfrac{3}{2}$ (2) $\dfrac{3}{14}$ (3) $\dfrac{5}{12}$ (4) $\dfrac{7}{30}$ (5) $\dfrac{9}{56}$

218. 6   6 $\dfrac{20}{3}$ $\dfrac{15}{2}$ $\dfrac{42}{5}$ $\dfrac{28}{3}$ $\dfrac{72}{11}$

  (1) 6   (2) $\dfrac{20}{3}$ (3) $\dfrac{15}{2}$ (4) $\dfrac{28}{3}$ (5) $\dfrac{72}{11}$

LEARN MATHS FROM S.K. RAJU (9811549822, 9811649822)

70

219. 6   24   60   120   210   340   504
(1) 24   (2) 60   (3) 340   (4) 210   (5) 504

220. 3   4   16   75   366   1945   11886
(1) 16   (2) 366   (3) 75   (4) 1945   (5) 11886

Directions (Q. 221-225): In each of these questions a number series is given. In each series only one number is wrong. Find out that number.

221. 5   22   56   116   205   330   497
(1) 5   (2) 56   (3) 116   (4) 330   (5) 497

222. 14   29   50   77   110   150   194
(1) 14   (2) 29   (3) 77   (4) 150   (5) 194

223. 176   275   396   539   704   891   998
(1) 176   (2) 275   (3) 539   (4) 704   (5) 998

224. $\dfrac{10}{3}$ 10 $\dfrac{50}{3}$ $\dfrac{70}{3}$ 30 $\dfrac{118}{3}$ $\dfrac{130}{3}$

(1) 10   (2) $\dfrac{70}{3}$ (3) 30   (4) $\dfrac{118}{3}$ (5) $\dfrac{130}{3}$

225. $\sqrt{5625}$ $\sqrt{5776}$ $\sqrt{5929}$ $\sqrt{6085}$ $\sqrt{6241}$ $\sqrt{6400}$ $\sqrt{6561}$

(1) $\sqrt{5625}$ (2) $\sqrt{5929}$ (3) $\sqrt{6085}$ (4) $\sqrt{6400}$ (5) $\sqrt{6561}$

Directions (Q. 226-2230): What will come in place of question mark (?) in the following number series?

226. 2   123   223   ?   368   417
(1) 392   (2) 304   (3) 287   (4) 225   (5) 227

267. 16   896   1336   ?   1666   1721
(1) 1556   (2) 1566   (3) 1586   (4) 1436   (5) None of these

228. 19   46   110   235   ?   794
(1) 351   (2) 551   (3) 451   (4) 345   (5) 349

229. 13   36   70   ?   179   258
(1) 115   (2) 106   (3) 109   (4) 117   (5) 128

230. 679   1230   2332   3985   ?   8944
(1) 6819   (2) 6198   (3) 6109   (4) 6289   (5) 6189

Directions (Q. 231-233): In the following number series, only one number is wrong. Find out that number.

231. 2   6   9   36   39   200   205
(1) 6   (2) 36   (3) 205   (4) 200   (5) 39

232. 169   183   223   292   389   514   667
(1) 183   (2) 223   (3) 389   (4) 667   (5) 292

233. 243   258   288   334   393   468   558
(1) 558   (2) 258   (3) 334   (4) 393   (5) 468

Directions (Q. 234-238): In each of these questions a number series is given. In each series only one number is Wrong. Find out that number.

234. 32   75   144   244   567   800   1089
(1) 32   (2) 75   (3) 244   (4) 800   (5) 1089

235. $\dfrac{15}{8}$ $\dfrac{35}{8}$ $\dfrac{105}{16}$ $\dfrac{693}{80}$ $\dfrac{429}{40}$ $\dfrac{715}{56}$ $\dfrac{1615}{96}$

71

(1) $\dfrac{15}{8}$ (2) $\dfrac{105}{16}$ (3) $\dfrac{693}{80}$ (4) $\dfrac{715}{56}$ (5) $\dfrac{1615}{96}$

236.   12   13   25   38   63   104   164   265

(1) 63   (2) 25   (3) 38   (4) 104   (5) 265

237.   287496   274625   262144   246078   238328   226981   216000

(1) 287496   (2) 274625   (3) 262144   (4) 246078   (5) 216000

238.   42   63   94.5   141.75   212.92   318.9375   478.40625

(1) 94.5   (2) 63   (3) 42   (4) 212.92   (5) 478.40625

Directions (Q. 239-243): In each question a number series is given. In each series only one number is wrong. Find out that number.

239. $\dfrac{25}{12}$ $\dfrac{41}{20}$ $\dfrac{61}{30}$ $\dfrac{85}{40}$ $\dfrac{113}{56}$ $\dfrac{145}{72}$ $\dfrac{181}{90}$

(1) $\dfrac{25}{12}$ (2) $\dfrac{61}{30}$ (3) $\dfrac{113}{56}$ (4) $\dfrac{181}{90}$ (5) $\dfrac{85}{40}$

240.   14   39   84   156   258   399   584

(1) 14   (2) 156   (3) 84   (4) 258   (5) 584

241.   421875   438976   456533   474551   493039   512000   531441

(1) 421875   (2) 493039   (3) 474551   (4) 531441   (5) 512000

242. $\dfrac{9}{5}$ $\dfrac{35}{13}$ $\dfrac{94}{25}$ $\dfrac{189}{41}$ $\dfrac{341}{61}$ $\dfrac{559}{85}$ $\dfrac{855}{113}$

(1) $\dfrac{855}{113}$ (2) $\dfrac{35}{13}$ (3) $\dfrac{94}{25}$ (4) $\dfrac{341}{61}$ (5) $\dfrac{559}{85}$

243. $\dfrac{9}{4}$ 4 $\dfrac{35}{6}$ $\dfrac{59}{7}$ $\dfrac{77}{8}$ $\dfrac{104}{9}$ 13.5

(1) $\dfrac{9}{4}$ (2) $\dfrac{77}{8}$ (3) $\dfrac{35}{6}$ (4) $\dfrac{104}{9}$ (5) $\dfrac{59}{7}$

Directions (Q. 244-246): In the following number series, only one number is wrong. Find out that number.

244.   2   36   150   393   810   1452   2366

(1) 810   (2) 393   (3) 36   (4) 2   (5) 1452

245.   88   115   145   175   208   243   280

(1) 88   (2) 175   (3) 145   (4) 243   (5) 280

246.   448   294   180   100   48   19   4

(1) 4   (2) 180   (3) 294   (4) 100   (5) 19

Directions (Q. 247-251): In each of these questions a number series is given. In each series only one number is wrong. Find out that number.

247.   6   60   210   500   990   1716   2730

(1) 60   (2) 210   (3) 500   (4) 990   (5) 1716

248.   4   12   24   36   52   69   84

(1) 84   (2) 24   (3) 36   (4) 52   (5) 69

249.   8   12   18   27   40.5   60   91.125

(1) 60   (2) 18   (3) 40.5   (4) 91.125   (5) 27

250.   999   1331   1727   1098   2743   3375   4095

(1) 3374   (2) 1331   (3) 1098   (4) 3300   (5) 4095

72

251. 89   87   91   84   99   67   131
      (1) 131   (2) 91   (3) 87   (4) 84   (5) 67

Directions (Q. 252-256): What will come in place of question mark (?) in the following number series?

252. 17   45   172   ?   5088   35602
      (1) 712   (2) 784   (3) 804   (4) 850   (5) 904

253. 9   333   ?   785   929   1029
      (1) 572   (2) 589   (3) 596   (4) 602   (5) 616

254. 1328   1722   2188   2732   3360   ?
      (1) 4072   (2) 4075   (3) 4078   (4) 4081   (5) 4084

255. 13   ?   570   2846   11376   34116
      (1) 84   (2) 91   (3) 95   (4) 98   (5) 102

256. 34   47   41   44   55   38   76   ?
      (1) 29   (2) 27   (3) 25   (4) 22   (5) 18

Directions (Q. 257-259): What should come in place of question mark (?) in the following number series.

257. 10 22 8 24 6 ?
      (1) 16   (2) 18   (3) 12   (4) 26   (5) None of these

258. 60.5 72 84.5 98 112.5 ?
      (1) 125   (2) 122   (3) 126   (4) 127   (5) None of these

259. 96 107 129 162 206 ?
      (1) 258   (2) 261   (3) 256   (4) 260   (5) 252

Directions (Q. 260-264): In each of these questions a number series is given. In each series only one number is wrong. Find out that number.

260. 2 12 36 81   150 252
      (1) 2   (2) 81   (3) 36   (4) 150   (5) 252

261. 5 16 27 44 65 90
      (1) 16   (2) 5   (3) 44   (4) 65   (5) 90

262. 4 2 0 -5 -12 -21
      (1) 0   (2) 4   (3) 2   (4) -5   (5) -21

263. 101 123 149 179 218 251
      (1) 251   (2) 123   (3) 179   (4) 218   (5) 101

264. 9 21 45 101 211 433 879
      (1) 21   (2) 45   (3) 211   (4) 433   (5) 101

LEARN MATHS FROM S.K. RAJU (9811549822, 9811649822)

73
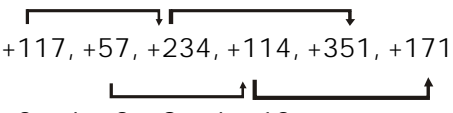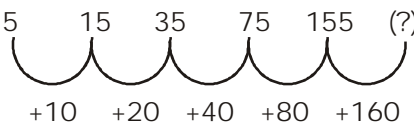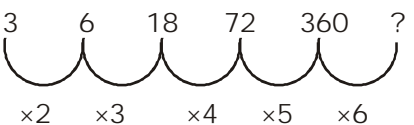
SHORT ANSWER

1. (2)	2. (4)	3. (2)	4. (5)	5. (1)	6. (2)	7. (3)	8. (4)
9. (2)	10. (1)	11. (4)	12. (4)	13. (1)	14. (5)	15. (3)	16. (3)
17. (5)	18. (5)	19. (1)	20. (3)	21. (3)	22. (1)	23. (4)	24. (5)
25. (1)	26. (3)	27. (1)	28. (2)	29. (3)	30. (4)	31. (2)	32. (3)
33. (1)	34. (5)	35. (2)	36. (3)	37. (4)	38. (1)	39. (2)	40. (2)
41. (1)	42. (2)	43. (3)	44. (1)	45. (3)	46. (2)	47. (5)	48. (2)
49. (1)	50. (3)	51. (3)	52. (2)	53. (1)	54. (5)	55. (1)	56. (5)
57. (3)	58. (1)	59. (3)	60. (2)	61. (3)	62. (2)	63. (1)	64. (2)
65. (5)	66. (4)	67. (2)	68. (1)	69. (4)	70. (3)	71. (3)	72. (5)
73. (2)	74. (4)	75. (3)	76. (2)	77. (1)	78. (5)	79. (1)	80. (4)
81. (2)	82. (1)	83. (2)	84. (4)	85. (2)	86. (2)	87. (1)	88. (4)
89. (3)	90. (4)	91. (2)	92. (3)	93. (2)	94. (1)	95. (5)	96. (2)
97. (1)	98. (3)	99. (5)	100. (4)	101. (2)	102. (4)	103. (5)	104. (1)
105. (2)	106. (4)	107. (4)	108. (1)	109. (2)	110. (1)	111. (4)	112. (3)
113. (1)	114. (1)	115. (4)	116. (3)	117. (2)	118. (4)	119. (2)	120. (4)
121. (3)	122. (1)	123. (3)	124. (4)	125. (2)	126. (3)	127. (5)	128. (1)
129. (5)	130. (3)	131. (2)	132. (1)	133. (3)	134. (3)	135. (2)	136. (4)
137. (5)	138. (3)	139. (3)	140. (2)	141. (5)	142. (5)	143. (1)	144. (1)
145. (4)	146. (4)	147. (4)	148. (3)	149. (3)	150. (1)	151. (2)	152. (4)
153. (5)	154. (2)	155. (2)	156. (1)	157. (5)	158. (4)	159. (2)	160. (1)
161. (5)	162. (3)	163. (1)	164. (4)	165. (3)	166. (1)	167. (4)	168. (2)
169. (2)	170. (2)	171. (3)	172. (1)	173. (2)	174. (1)	175. (5)	176. (3)
177. (3)	178. (3)	179. (3)	180. (2)	181. (4)	182. (5)	183. (1)	184. (2)
185. (1)	186. (1)	187. (4)	188. (2)	189. (5)	190. (1)	191. (2)	192. (5)
193. (4)	194. (1)	195. (5)	196. (5)	197. (1)	198. (3)	199. (2)	200. (5)
201. (1)	202. (4)	203. (5)	204. (4)	205. (1)	206. (5)	207. (4)	208. (1)
209. (2)	210. (1)	211. (3)	212. (2)	213. (2)	214. (4)	215. (1)	216. (3)
217. (2)	218. (5)	219. (3)	220. (2)	221. (2)	222. (4)	223. (5)	224. (4)
225. (3)	226. (2)	227. (1)	228. (3)	229. (4)	230. (5)	231. (5)	232. (1)
233. (3)	234. (3)	235. (5)	236. (4)	237. (4)	238. (4)	239. (5)	240. (2)
241. (4)	242. (3)	243. (5)	244. (2)	245. (3)	246. (5)	247. (3)	248. (5)
249. (1)	250. (2)	251. (4)	252. (4)	253. (2)	254. (3)	255. (3)	256. (1)
257. (4)	258. (5)	259. (2)	260. (2)	261. (1)	262. (3)	263. (4)	264. (2)

74

DETAIL - EXPLANATIONS

1. 2; The number should be 60.
   $+ 3^2 + 2, + 4^2 + 3, + 5^2 + 4 \ldots$

2. 4; The number should be 416.
   $\times 1 + 5, \times 2 + 10, \times 3 + 15, \times 4 + 20 \ldots$

3. 2; The number should be 63.
   $(1 \times 2 \times 3) + 1, (2 \times 3 \times 4) + 2, (3 \times 4 \times 5) + 3 \ldots$

4. 5; The number should be 324.
   $1 \times 2^2 + 5, 2 \times 3^2 + 10, 3 \times 4^2 + 15, 4 \times 5^2 + 20$

5. 1; The number should be 58.
   $1^3 + 25, 2^3 + 50, 3^3 + 75, 4^3 + 100 \ldots$

6. 2; The number should be 738.
   $3^3 + 3, 6^3 - 6, 9^3 + 9, 12^3 - 12 \ldots$

7. 3; The number should be 652.
   $1440, 1440 - (17)^2 + 1, 1440 - (15)^2 + 3, 1440 - (13)^2 + 5, 1440 - (11)^2 + 7$

8. 4; The number should be 174.
   $\times 3 + 5, \times 3 + 10, \times 3 + 15$

9. 2; The number should be 217.
   $\times 1 + 15, \times 2 + 20, \times 3 + 25, \times 4 + 30$

10. 1; The number should be 9277.
    $+(21)^3, +(18)^3, +(15)^3$

11. 4; $1 \times 7 = 7$
    $7 \times 7 = 49$
    $49 \times 7 = 343$
    $343 \times 7 = 2401$

12. 4; $13 + 2^2 + 3 = 20$
    $20 + 4^2 + 3 = 39$
    $39 + 6^2 + 3 = 78$
    $78 + 8^2 + 3 = 145$
    $145 + 10^2 + 3 = 248$

13. 1; $12 \times 2 + 11 = 35$
    $35 \times 2 + 11 = 81$
    $81 \times 2 + 11 = 173$
    $173 \times 2 + 11 = 357$
    $357 \times 2 + 11 = 725$

14. 5; $3 + 97 = 100$
    $100 + 197 = 297$
    $297 + 297 = 594$
    $597 + 397 = 991$
    $991 + 497 = 1488$

15. 3; $112 + 7 \times 1 = 119$
    $119 + 7 \times 3 = 140$
    $140 + 7 \times 5 = 175$
    $175 + 7 \times 7 = 224$
    $224 + 7 \times 9 = 287$

16. 3; The number should be 81.
    The series is $+ 1^2 \times 1, + 2^2 \times 2, + 3^2 \times 3 \ldots$

17. 5; The number should be 247.
    The series is $21 + 1^2, 42 + 3^2, 63 + 5^2, 84 + 7^2 \ldots$

18. 5; The number should be 287.
    The series is $+ 1^2 + 1^3, + 2^2 + 2^3, + 3^2 + 3^3 \ldots$

19. 1; The number should be 19.
    The series is $\times 2 + 13, \times 3 + 26, \times 4 + 39 \ldots$

20. 3; The number should be 106.
    The series is $+ 1^4 + 2^4, + 3^4, + 4^4 \ldots$

21. 3; The number should be 1092.
    $\times 5 + 9, \times 5 + 18, \times 5 + 27 \ldots$

22. 1; The number should be 142.
    $+ 5^3, + 6^3, + 7^3, + 8^3 \ldots$

23. 4; The number should be 1487.
    $\times 3 - 4, \times 4 - 5, \times 5 - 6 \ldots$

24. 5; The number should be 888.
    $+ 4^2, + 8^2, + 12^2 \ldots$

25. 1; The number should be 22.
    $\times 3 - 2, \times 4 - 3, \times 5 - 4 \ldots$

26. 3; The number should be 123.
    $\times 1 + 3, \times 2 + 6, \times 3 + 9 \ldots$

27. 1; The number should be 11.
    $\times 1 + 5, \times 2 + 10, \times 3 + 15 \ldots$

28. 2; The number should be 63.
    $+ 1 \times 2, + 3 \times 3 + 5 \times 4 + 7 \times 5 \ldots$

29. 3; The number should be 480.
    $- 45 \times 3, - 40 \times 3, - 35 \times 3 \ldots$

30. 4; The number should be 2420.
    $+ 1^3 \times 2, + 2^3 \times 3, + 3^3 \times 4 \ldots$

31. 2; $-16^3, + 15^3, - 14^3, + 13^3, - 12^3$

32. 3; $\times 2 - 3, \times 4 - 6, \times 6 - 10,$
    $\times 8 - 15, \times 10 - 21$

33. 1; $\times 9 - 1, \times 8 - 3, \times 7 - 5, \times 6 - 7, \times 5 - 9$

34. 5; $+ 1^3, + 2, + 3^3, + 4, + 5^3$

35. 2; $+ 10, + 2^3, + 12, + 4^3, + 14, + 6^3$

36. 3;

17	19	33	67	129	227
$+ 2^2 - 2$	$+ 4^2 - 2$	$+ 6^2 - 2$	$+ 8^2 - 2$	$+ 10^2 - 2$	

37. 4;

35	256	451	620	763	880
221	195	169	143	117	
$- 26$	$- 26$	$- 26$	$- 26$		

LEARN MATHS FROM S.K. RAJU (9811549822, 9811649822)

75

38. 1

39. 2

40. 2

41. 1; Series is ×1 + 6; ×2 + 12, ×3 + 18 ...

42. 2; Series is ×1 + 9^2, ×2 + 8^2, ×3 + 7^2, ×4 + 6^2...

43. 3; Series is ×0.2, ×1.2, ×2.2, ×3.2 ...

44. 1; Series is + 978, + 1956, + 2934, + 3912 ...

45. 3; Series is ×3 - 6, ×3 - 12, ×3 - 18, ×3 - 24 ...

46. 2; +11^3, + 12^3, + 13^3, + 14^3...

47. 5; ×1 + 51, ×2 + 102, ×3 + 153 ...

48. 2; ×1.5, ×3, ×4.5, ×6 ...

49. 1; + 8 ×1, + 16 × 2, + 24 × 3 ...

50. 3; + 2^5, + 3^5, + 4^5 ...

51. 3; This series is a combination of two series:

+117, +57, +234, +114, +351, +171

52. 2; ×2 + 4, ×3 + 8, ×4 + 12 ...

53. 1; ×1.5, ×2, ×2.5, ×3

54. 5; +4^3, +8^3, +12^3, +16^3

55. 1; -2^4, -3^4, -4^4, -5^4

56. 5; The number is 494.

10^2, +11, +12^2, +13, +14^2, +15 ...

57. 3; The number is 2268.

+17^2, +19^2, +21^2, +23^2, +25^2 ...

58. 1; The number is 14612.

×2 + 16, ×3 + 26, ×4 + 36, ×5 + 46, ×6 + 56 ...

59. 3; The number is ×2 + 27, ×2 + 54, ×2 + 81, ×2 + 108, ×2 +135 ...

60. 2; The number is + (4 × 3), +(5 × 4), +(6 × 5), +(7 × 6), +(8 × 7) ...

61. 3; The number is 1377.

215 × 1 + 87; 215 × 2 + 87; 215 × 3 + 87; 215 × 4 + 87; 215 × 5 + 87; 215 × 6 + 87...

62. 2; The number is 772.

192 + 100 = 292

292 + 108 = 400

400 + 116 = 516

516 + 124 = 640

640 + 132 = 772

63. 1; The number is 89.

19; + 10; + 12; + 14; + 16, + 18...

64. 2; The series is:

$3 × 2^8 = 768$

$4 × 2^7 = 512$

$5 × 2^6 = 320$

$6 × 2^5 = 192$

$7 × 2^4 = 112$

8 × 23 = 64

65. 5; The series is:

$1^3 + 17$

$2^3 + 34$

$3^3 + 51$

$4^3 + 68$

66. 4; × 3 + 1, × 4 + 2, × 5 + 3...

67. 2; + 4 × 2, + 8 × 3, + 12 × 4

68. 1; The series is based on' combination of two series. S_1= +13, +26, +39... and S_2 = +7, +14, +21...

69. 4; +36, +72, +144, +288...

70. 3; $(22)^2$, $(27)^2$, $(32)^2$, $(37)^2$...

71. 3; The series is + 7^2 + 14^2, + 21^2, + ...

72. 5; The series is 40 × 1.7, 80 × 2.7, 120 × 3.7, 160 × 4.7...

73. 2; The series is 2^2 + 3, 4^2 + 5, 6^2 + 7, 8^2 + 9...

74. 4; The series is 1 × 3, 5 × 7, 9 × 11, 13 × 15...

75. 3; The series is 1^2 + 1, 3^2 + 3, 5^2 + 5, 7^2 + 7...

76. 2; +4^2, +6^2, +8^2, +10^2, +12^2,

77. 1; × 12 - 11, × 10 - 9, × 8 - 7, × 6 - 5

78. 5; × 3 - 5, × 3 - 5, × 3 - 5, × 3 - 5

79. 1; 99^2, 98^2, 97^2, 96^2, 95^2, 94^2

80. 4; 7^3 - 4 = 339

9^3 + 4 = 733

11^3 - 4 = 1327

13^3 + 4 = 2201

15^3 - 4 = 3371

17^3 + 4 = 4917

81. 2; $(1)^4$ + 2, $(2)^4$ - 2, $(3)^4$ + 2, $(4)^4$ - 2

82. 1; × 2 - 5, × 3 - 10, × 4 - 15

83. 2; 2^4 + 3^3, 3^4 + 4^3, 4^4 + 5^3, 5^4, 5^3 + 6^3

84. 4; 3^3, 3^3 + 11, 4^3, 4^3 + 22, 5^3 + 33

85. 2; 12, 12 + (12 × 2 + 3) = 12 + 27 = 39

39 + (39 × 2 + 3) = 39 + 81 = 120

120 + (120 × 2 + 3) = 120 + 243 = 363

86. 2; 5   15   35   75   155   (?)

+10   +20   +40   +80   +160

87. 1; 3   6   18   72   360   ?

×2   ×3   ×4   ×5   ×6

LEARN MATHS FROM S.K. RAJU (9811549822, 9811649822)

76

88. 4; 88   472   347   283   256   (?)

-216 -215 -64 -27 -8
$(6)^3$ $(5)^3$ $(4)^3$ $(3)^3$ $(2)^3$

89. 3; The series is $+ 1^3 + 2^2, + 2^3 + 3^2, + 3^3 + 4^2...$
90. 4; The series is $– 1^3 × 2, –2^3 × 3, – 3^3 × 4...$
91. 2; The series is $×3 – 9, × 3 – 19, × 3 – 29...$
92. 3; The series is $+ (111)^2, + (101)^2, + (91)^2, + (81)^2...$
93. 2; The series is $× 0.2, × 0.3, × 0.4, × 0.5...$
94. 1; The series is $+(1^3 + 2^3), +(2^3 + 3^3), + (3^3 + 4^3)...$
95. 5; The series is $+ (6 × 2), + (18 × 2), + (54 × 2)...$
96. 2; The series is $+4^2, +8^2, +12^2, + 16^2...$
97. 1; The series is $-32^2, -28^2, -24^2, -20^2...$
98. 3; The series is $×2 + 5, ×2 + 10, ×2 + 15...$
99. 5; The series is $3 × 24, 5 × 19, 7 × 17, 9 × 15, 11 × 13, 13 × 11...$
100. 4; The series is $+2^4, +3^4, +4^4, +5^4...$
101. 2; The series is $×3 + 8, ×3 + 16, ×3 + 24...$
102. 4; The series is $69^2 + 69, 67^2 + 67, 65^2 + 65, 63^2 + 63...$
103. 5; The series is $-2^3 + 1, -3^3 + 2, -4^3 + 3, -5^3 + 4...$
104. 1; The number should be 5555 in place of 5531. $-7^2, -9^2, -11^2, -13^2, -15^2, -17^2 ...$
105. 2; The number should be 21 in place of 426. $+1, +2, +4, +8, +16, +32$
106. 4; The number should be 770 in place of 760. $×1 + 2, ×2 + 4, ×3 + 6, ×4 + 8, ×5 + 10, ×6+ 12, ...$
107. 4; The series is $0^2 + 4, 1^2 + 2, 3^2 + 0, 6^2 -2, 10^2 - 4, 15^2 - 6, 21^2 - 8 ...$
Hence, 435 should be replaced with 433
108. 1; The number should be 2 in place of 1 $÷ 3.5, ÷3, ÷2.5, ÷2, ÷1.5, ÷1, ...$
109. 2; The series is $×2 - 4, ×4 - 8, ×6 - 12, ×8 - 16, ×10 - 20...$
110. 1; The series is $×3 + 1, ×7 + 2, ×11 + 3, ×15 + 4...$
111. 4; The series is $×10 - 3, ×9 - 6, ×8 - 9, ×7- 12, ×6 - 15...$
112. 3; The series is $×8 + 13, ×7 + 26, ×6 + 39, ×5 + 52, ×4 + 65$
113. 1; The series is $+9^3, +8^3, +7^3, +6^3, +5^3...$
114. 1; The series is $2 × 9^2 - 1, 2 × 10^2 - 1, 2 × 11^2 -1, 2 × 12^2 -1, 2 × 13^2 - 1, 2 × 14^2 - 1,$
115. 4; The series is $141, +(14)^3, +(12)^3, +(10)^3...$
116. 3; The series is $×2.5, +4, ×2.5, +4...$
117. 2; $15 × 2.9 = 43.5$

$15 × 3.8 = 57$
$15 × 4.7 = 70.5$
$15 × 5.6 = 84$
$15 × 6.5 = 97.5$
$15 × 7.4 = 111$
118. 4; The series is $5, 5 + 9^2 + 1 = 87, 87 + 8^3 + 2 = 601, 601 + 7^4 + 3 = 3005, 3005 + 6^5 + 4 = 10785, 10785 + 5^6 + 5$
119. 2; The series is $89^2 + 1, 88^2 + 2, 87^2 + 3,..$
120. 4; The series is $7 + 7^2- 2, 8 + 8^2- 4, 9 + 9^2-6, 10+10^2 - 8...$
121. 3; The series is $+14, +42, +126, +378...$
122. 1; The series is $+11^3, +9^3, +7^3, +5^3...$
123. 3; $36 × 2 + 5 = 77,$
∴ $77 × 3 + 10 = 241,$
∴ $241 × 4 + 15 = 979, ...$
124. 4; The series is $(11)^3 - 11, (10)^3 - 10, (9)^3 - 9...$
125. 2; The series is $× 9 + 1, × 8 + 3, × 7 + 5...$
126. 3; The series is $9^2, 8^3, 7^4, 6^5, 5^6...$
127. 5; The series is $-119, -238, -357, -476...$
128. 1; The series is $× 3 - 9, × 3 - 8, × 3 - 7, × 3 - 6...$
129. 5; The series is $+ 17^2 - 17, + 15^2 - 15, + 13^2 - 13 ...$
130. 3; The series is $+8^3, +12^3, +16^3, +20^3, ...$
131. 2; The series is $2^2 + 4^2, 6^2 + 8^2, 10^2 + 12^2, 14^2 + 16^2 ...$
132. 1; The series is $-24^2, -21^2, -18^2, -15^2 ...$
133. 3; The series is $+10^3 - 10, 9^3 - 9, +8^3 -8 ...$
134. 3; $- 20^2, - 16^2, -12^2, - 8^2, - 4^2$
135. 2; $+ 46, + 92, + 138, + 184, + 230$
136. 4; $+(11×1+0), +(11×3+2), +(11×5+4), +(11×7+6), +(11×9+8), ...$
137. 5; The given series is a combination of two series.
Pattern I: 454   648   842   1036
194 added in each subsequent term.
Pattern II: 327   521   715
194 added in each subsequent term.
Hence 713 should be replaced with 715.
138. 3; $+13.5, +27, +54, +108, +216, +432$
Hence, 168 should be replaced with 167.
139. 3; The series is $+3^2, +5^2, +7^2, +9^2, +11^2, + 13^2, +15^2 ...$
140. 2; The series is $+35^2, +40^2, +45^2, +50^2, + 55^2 ...$
141. 5; The series is $(+2^2) × 17, (+3^2) × 15, (+4^2) × 13 ...$
142. 5; The series is $240, (240 + 2^2) - 9^2 = 163, (163 + 3^2) - 8^2 = 108, (108 + 4^2) - 7^2 = 75, (75 + 5^2) - 6^2 = 64, (64 + 6^2) - 5^2 = 75$
143. 1; The series is $12.8 × 0.9, 12.7 × 0.8, 12.6 ×$

0.7, 12.5 × 0.6...

144. 1; The series is + $(2^2 + 3)$, + $(3^2 + 4)$, + $(4^2 + 5)$, + $(6^2 + 7)$ ...

145. 4; The series is $+9^2$, $+8^2$, $+7^2$ ...

146. 4; The series is 5, 5 × 3.2, 6 × 4.3, 7 × 5.4, 8 × 6.5, 9 × 7.6, 10 × 8.7 ...

147. 4; The series is $+5^2$, +6, $+7^2$, +8, $+9^2$, + 10...

148. 3; $1 + 3^3 = 28$; $28 + 4^3 = 92$; $92 + 5^3 = 217$; $217 + 6^3 = 443$; $443 + 7^3 = 779$; $779 + 8^3 = 1288$

149. 3; The series is $+2^3 - 1$, $+3^3 - 2$, $+4^3 - 3$...

150. 1; The series is (68 – 5) × 2, (126 – 15) ×13, (333 –25)× 4, ...

151. 2; The series is $(+2^3 – 5)$, $(+3^3 – 10)$, $(+4^3 – 15)$, ...

152. 4; The series is ×1.5, ×2.5, ×3.5, ×4.5...

153. 5; The series is ×0.5 + 2, ×2 + 4, ×0.5 + 6, ×2 + 8...

154. 2; The series is +154, +182, +210, +238, +266 ...

155. 2; The series is -49.5, – 38.5, – 27.5, – 16.5, – 5.5 ...

156. 1; The series is +19.2, + 38.4, + 76.8, +153.6 ...

157. 5; The series is +118, +78, +46, +22, +6 ... The number should be 300 + 6 = 306

158. 4; The series is $+8^3$, $– 7^2$, $+6^3$, $– 5^2$, $+4^3$ ... The number should be 678 + 64 = 742

159. 2; The series is $6^3 + 16$, $7^3 + 17$, $8^3 + 18$, $9^3 + 19$ ...

160. 1; The series is ×4 - 3, × 5 -4, ×6 - 5 ...

161. 5; The series is +248, +496, +992, +1984

162. 3; The series is ×5 - 9

163. 1; The series is 27
$27 + 7^3 = 370$
$370 + 9^3 = 1099$
$1099 + 11^3 = 2430$
$2430 + 13^3 = 4627$
$4627 + 15^3 = 8002$

164. 4; The series is $+3^3$, $+4^3$, $+5^3$, $+6^3$ ...

165. 3; The series is × 2 + 4, × 4 + 6, × 6 + 8, × 8 + 10 ...

166. 1; The series is (2 × 4) + 5 = 13
(4 × 6) + 15 = 39, (6 × 8) + 25 = 73
(8 × 10) + 35 = 115, (10 × 12) + 45 = 165 ...

167. 4; The series is ×1 + 6, ×2 + 12, ×3 + 18, × 4 + 24 ...

168. 2; The series is (5 × 1.2) + 5 = 11, (15 × 1.4) + 10 = 31, (25 × 1.6) + 15 = 55, (35 × 1.8) + 20 = 83
(45 × 2.0) + 25 = 115, (55 × 2.2) + 30 = 151
(65 × 2.4) + 35 =191

169. 2; The series is $(21)^2 – 12$, $(19)^2 – 10$ $(17)^2 – 8$, $(15)^2 – 6$, $(13)^2 – 4$, $(11)^2 – 2$, ...

170. 2; The series is $(10)^3 – (10)^2$, $(9)^3 + (9)^2$ $(8)^3 – (8)^2$, $(7)^3 + (7)^2$, $(6)^3 – (6)^2$, $(5)^3 + (5)^2$...

171. 3; The series is (17 × 19 + 7), (15 × 17 + 6), (13 × 15 + 5), (11 × 13 + 4), (9 × 11 + 3),

172. 1; The series is 7 × 9.5, 11 × 8.5, 15 × 7.5, 19 × 6.5, 23 × 5.5, 27 × 4.5, ...

173. 2; The series is (6 × 9 - 15), (8 × 8 - 16), (10 × 7 - 17), (12 × 6 - 18), (14 × 5 - 19) (16 × 4 - 20), (18 × 3 - 21), ...

174. l; The series is $5^3 + 5^2$, $6^3 + 6^2$, $7^3 + 7^2$, $8^3 + 8^2$, $9^3 + 9^2$, $10^3 + 10^2$ ...
There should be 1100 in place of (?) mark.

175. 5; The series is + (3600 × 1), + (3600 × 2), + (3600 × 3), + (3600 × 4), + (3600 × 5), ...
There should be 54100 in place of (?) mark.

176. 3; The series is $(39^2 - 39)$, $(38^2 - 38)$, $(37^2 - 37)$, $(36^2 - 36)$, $(35^2 - 35)$, $(34^2 - 34)$
There should be 1260 in place of (?) mark.

177. 3; The series is (1 × 2), (3 × 4), (5 × 6), [7 × 8), (9 × 10), (11 × 12), ...
There should be 90 in place of (?) mark.

178. 3; The series is (31 × 33), (34 × 36), (37 × 39), (40 × 42), (43 × 45), ...
There should be 1443 in place of (?) mark.

179. 3; The series is $(12^3 - 12)$, $(11^3 - 11)$, $(10^3 - 10)$, $(9^3 - 9)$, $(8^3 - 8)$, $(7^3 - 7)$, $(6^3 - 6)$,....
There should be 990 in place of 1000.

180. 2; The series is $35^2 - (3 + 5)$, $33^2 - (3 + 3)$, $31^2 - (3 + 1)$, $29^2 - (2 + 9)$, $27^2 - (2 + 7)$, $25^2 - (2 + 5)$, $23^2 - (2 + 3)$ ...
There should be 830 in place of 833.

181. 4; The series is $16 × 6 - 7^2$, $47 × 5 - 6^2$, $199 × 4 - 5^2$, $771 × 3 - 4^2$, $2297 × 2 - 3^2$, $4585 × l - 2^2$
There should be 2297 in place of 2283.

182. 5; The series is $14^3 + (1 + 4)^2$, $13^2 + (1 + 3)^2$, $12^3 + (1 + 2)^2$, $11^3 + (1 + l)^2$, $10^3 + (1 + 0)^2$, $9^3 + (9 + 0)^2$, $8^3 + 8^2$
There should be 1001 in place of 10001.

183. 1; The series is 15 × 11, 13 × 22, 11 × 33, 9 × 44, 7 × 55, 5 × 66, 3 × 77.
There should be 330 in place of 350.

184. 2; The series is $19^3 - 38$, $18^3 + 36$, $17^3 - 34$, $16^3 + 32$, $15^3 - 30$, $14^3 + 28$, $13^3 - 26$ ...
There should be 4128 in place of 4130

185. 1; The series is $33^2 + (3 + 3)$, $35^2 - (3 + 5)$, $37^2 + (3 + 7)$, $39^2 - (3 + 9)$, $41^2 + (4 + 1)$, $43^2 - (4 + 3)$, $45^2 + (4 + 5)$ ...
There should be 1509 in place of 1508

186. 1; The series is 21 × 1.5, 19 × 2.5, 17 × 3.5; 15 × 4.5, 13 × 5.5, 11 × 6.5, 9 × 7.5 ...
There should be 71.5 in place of 79.5

187. 4; The series is $3^2 + 6$, $4^2 - 8$, $5^2 + 10$, $6^2 - 12$, $7^2 + 14$, $8^2 - 16$, $9^2 + 18$, ...
There should be 48 in place of 49.

78

188. 2; The series is 44×3, 40×5, 36×7, 32×9, 28×11, 24×13, 20×15 ...
There should be 252 in place of 253.

189. 5; The series is $16 \times 3 + 5$, $14 \times 6 - 10$, $12 \times 9 + 15$, $10 \times 12-20$ ...

190. 1; **The series is** $5^3 + 5 + 15$, $6^3 - 6 - 30$, $7^3 + 7 + 45$, $8^3 - 8 - 60$, $9^3 + 9 + 75$ ...

191. 2; The series is $16 \times 0.5 + 4$, $32 \times 1.0 - 8$, $48 \times 1.5 + 12$, $64 \times 2 - 16$ ...

192. 5; The series is $(12 \times 7.5) \times 2$, $(14 \times 6.5) \times 4$, $(16 \times 5.5) \times 6$, $(18 \times 4.5) \times 8$ ...

193. 4; The series is $(I^4 \times 2) - 1$, $(2^4 \times 2) + 1$, $(3^4 \times 2) - 1$, $(4^4 \times 2) + 1$ ...

194. 1; The series is $(3^3 \times 1) + 1$, $(4^3 \times 2) - 2$, $(5^3 \times 3) + 3$, $(6^3 \times 4) - 4$

195. 5; The series is $\times 2 + 1^3$, $\times 3 + 2^3$, $\times 4 + 3^3$, $\times 5 + 4^3$...

196. 5; The series is 23^2, 29^2, 31^2, 37^2 ...

197. 1; The series is $+3^2$, $+5^2$, $+7^2$, $+11^2$, $+13^2$, ...

198. 3; The series is $+120$, $+128$, $+136$, $+... + 160$, ...

199. 2; The series is $\times 1 + 2$, $\times 2 + 4$, $\times 3 + 6$, $\times 4 + 8$, $\times 5 + 10$, $\times 6 + 12$ ...

200. 5; The series is -3, -9, -27, -81, -243 ...

201. 1; The series is $1^3 \times 3$, $3^3 \times 3$, $5^3 \times 3$, $7^3 \times 3$, ...

202. 4; Each number is a prime number multiplied by 15.
Thus, the series is 15×2, 15×3, 15×5, 15×7, 15×11, ...

203. 5; The series is $\times 3$, $\div 2$, $\times 3$, $\div 2$, ...

204. 4; The series is $\div 6$, $\div 5$, $\div 4$, $\div 3$ ...

205. 1; The series is $(3^3 - 1)$, $(4^3 - 1)$, $(5^3 - 1)$, $(6^3 - 1)$, $(7^3 - 1)$ ...

206. 5; The series is $+20$, $+22$, $+24$, $+26$, $+28$ ...

207. 4; The series is $2 \times 6 + 6 = 18$
$18 \times 5 + 5 = 95$
$95 \times 4 + 4 = 384$
$384 \times 3 + 3 = 1155$
$1155 \times 2 + 2 = 2312$

208. 1; The series is $+(11 \times 1)$, $+(11 \times 3)$, $+(11 \times 5)$, $+(11 \times 7)$...

209. 2; The series is $37 + (5 \times 1) = 42$
$42 + (5 \times 3) = 57$
$57 + (5 \times 5) = 82$
$82 + (5 \times 7) = 117$
$117 + (5 \times 9) = 162$

210. 1; The series is $+(9 \times 32)$, $+(9 \times 16)$, $+(9 \times 8)$, $+(9 \times 4)$, (9×2) ...

211. 3; The number should be 600 in place of 599.

212. 2; The number should be 38 in place of 40.
The series is $\times 1 + 5$, $\times 2 + 10$, $\times 3 + 15$ ...

213. 2; The number should be 63 in place of 64.
The series is $(8 + 1) \times 2$, $(18 + 3) \times 3$, $(63 + 5) \times 4$, ...

214. 4; The number should be 285 in place of 286.
The series is $(90 - 45) \times 3$, $(135 - 40) \times 3$, $(285 -35) \times 3$, ...

215. 1; The number should be 636 in place of 635.
The series is $(17 + 1^3) \times 2$, $(36 + 2^3) \times 3$, $(132 + 3^3) \times 4$, $(636 + 4^3) \times 5$, ...

216. 3; The series is $1 + 1^2 + 1^3$, $2 + 2^2 + 2^3$, $3 + 3^2 + 3^3$, $4 + 4^2 + 4^3$, $5 + 5^2 + 5^3$, $6 + 6^2 + 6^3$.
There should be 39 in place of 40.

217. 2; The series is
$$\frac{3}{1 \times 2} = \frac{3}{2}, \frac{4}{2 \times 3} = \frac{2}{3}, \frac{5}{3 \times 4} = \frac{5}{12},$$
$$\frac{6}{4 \times 5} = \frac{3}{10}, \frac{7}{5 \times 6} = \frac{7}{30}, \frac{8}{6 \times 7} = \frac{4}{21}, \frac{9}{7 \times 8} = \frac{9}{56}.$$
There should be $\frac{3}{10}$ in place of $\frac{3}{14}$.

218. 5; The series is
$$\frac{3 \times 2}{1} = 6, \frac{4 \times 3}{2} = 6, \frac{5 \times 4}{3} = \frac{20}{3},$$
$$\frac{6 \times 5}{4} = \frac{15}{2}, \frac{7 \times 6}{5} = \frac{42}{5}, \frac{8 \times 7}{6} = \frac{28}{3}, \frac{9 \times 8}{7} = \frac{72}{7}$$
There should be $\frac{72}{7}$ in place of $\frac{72}{11}$.

219. 3; The series is $2^3 - 2 = 6$, $3^3 - 3 = 24$, $4^3 - 4 = 60$, $5^3 - 5 = 120$, $6^3 - 6 = 210$, $7^3 - 7 = 336$, $8^3 - 8 = 504$
There should be 336 in place of 340.

220. 2; The series is $3 \times 1 + 1^3 = 4$, $4 \times 2 + 2^3 = 16$, $16 \times 3 + 3^3 = 75$, $75 \times 4 + 4^3 = 364$, $364 \times 5 + 5^3 = 1945$, $1945 \times 6 + 6^3 = 11886$
There should be 364 in place of 366.

221. 2; The series is $3 \times 2 \times 1 - 1 = 5$, $4 \times 3 \times 2 - 2 = 22$, $5 \times 4 \times 3 - 3 = 57$, $6 \times 5 \times 4 - 4 = 116$, $7 \times 6 \times 5 - 5 = 205$, $8 \times 7 \times 6 - 6 = 330$, $9 \times 8 \times 7 - 7 = 497$. Hence, 56 should be replaced by 57.

222. 4; The series is $3^2 + 2^2 + I^2 = 14$, $4^2 + 3^2 + 2^2 = 29$, $5^2 + 4^2 + 3^2 = 50$, $6^2 + 5^2 + 4^2 = 77$, $7^2 + 6^2 + 5^2 = 110$, $8^2 + 7^2 + 6^2 = 149$, $9^2 + 8^2 + 7^2 = 194$. Hence, 150 should be replaced by 149.

223. 5; The series is $44 \times 4 = 176$, $55 \times 5 = 275$, $66 \times 6 = 396$, $77 \times 7 = 539$, $88 \times 8 = 704$, $99 \times 9 = 891$, $110 \times 10 = 1100$.

79

Hence, 998 should be replaced by 1100.

224. 4; The series is $\frac{5 \times 2}{3} = \frac{10}{3}$, $\frac{15 \times 2}{3} = 10$,

$\frac{25 \times 2}{3} = \frac{50}{3}$, $\frac{35 \times 2}{3} = \frac{70}{3}$, $\frac{45 \times 2}{3} = 30$,

$\frac{55 \times 2}{3} = \frac{110}{3}$, $\frac{65 \times 2}{3} = \frac{130}{3}$

There should be $\frac{110}{3}$ in place of $\frac{118}{3}$.

225. 3; The series is $\sqrt{(75)^2} = \sqrt{5625}$,

$\sqrt{(76)^2} = \sqrt{5776}$, $\sqrt{(77)^2} = \sqrt{5929}$,

$\sqrt{(78)^2} = \sqrt{6084}$, $\sqrt{(79)^2} = \sqrt{6241}$,

$\sqrt{(80)^2} = \sqrt{6400}$, $\sqrt{(81)^2} = \sqrt{6561}$

There should be $\sqrt{6084}$ in place of $\sqrt{6085}$.

226. 2; The series is $+ 11^2, + 10^2, + 9^2, + 8^2, + 7^2 \ldots$
Hence, there should be 304 in place of question mark.

227. 1; The series is $+ 880, + 440, + 220, + 110, + 55, \ldots$
Hence, there should be 1556 in place of question mark.

228. 3; The series is $+ 3^3, + 4^3, + 5^3, + 6^3, + 7^3, \ldots$
Hence, there should be 451 in place of question mark.

229. 4; The series is $+ (5^2 - 2), + (6^2 - 2), + (7^2 - 2), + (8^2 - 2), \ldots$
Hence, there should be 117 in place of question mark.

230. 5; The series is $+ 551, + 1102, + 1653, + 2204, + 2755, \ldots$
There should be 6189 in place of question mark.

231. 5; The series is $\times 3, +3, \times 4, +4, \times 5, +5 \ldots$
There should be 40 in place of 39.

232. 1; $+(13 \times 1 + 0), +(13 \times 3 + 2), +(13 \times 5 + 4), +(13 \times 7 + 6), \ldots$
Hence, 183 should be replaced with 182.

233. 3; The series is $+ 15, + 30, + 45, + 60, + 75$,
Hence, 334 should be replaced with 333.

234. 3; The series is $1 + 2^2 + 3^3 = 32$, $2 + 3^2 + 4^3 = 75$, $3 + 4^2 + 5^3 = 144$, $4 + 5^2 + 6^3 = 245$, $6 + 7^2 + 8^3 = 567$, $7 + 8^2 + 9^3 = 800$, $8 + 9^2 + 10^3 = 1089$.
Hence, there should be 245 in place of 244.

235. 5; The series is

$\frac{1 \times 3 \times 5}{2 \times 4}, \frac{3 \times 5 \times 7}{4 \times 6}, \frac{5 \times 7 \times 9}{6 \times 8}, \frac{7 \times 9 \times 11}{8 \times 10}$

$\frac{9 \times 11 \times 13}{10 \times 12}, \frac{11 \times 13 \times 15}{12 \times 14}, \frac{13 \times 15 \times 17}{14 \times 16}$

$= \frac{15}{8}, \frac{35}{8}, \frac{105}{16}, \frac{693}{80}, \frac{429}{40}, \frac{715}{56}, \frac{3315}{224}$

Hence, there should be $\frac{3315}{224}$

in place of $\frac{1615}{96}$

236. 4; The series is 12, 13, 13 + 12 = 25, 25 + 13 = 38, 38 + 25 = 63, 63 + 38 = 101, 101 + 63 = 164, 164 + 101 = 265
Hence there should be 101 in place of 104.

237. 4; The series is $66^3 = 287496$, $65^3 = 274625$, $64^3 = 262144$, $63^3 = 250047$, $62^3 = 238328$, $61^3 = 226981$, $60^3 = 216000$
There should be 250047 in place of 246078.

238. 4; The series is $42 \times 1.5 = 63$, $63 \times 1.5 = 94.5$, $94.5 \times 1.5 = 141.75$, $141.75 \times 1.5 = 212.625$, $212.625 \times 1.5 = 318.9375$, $318.9375 \times 1.5 = 478.40625$
Hence, there should be 212.625 in place of 212.92.

239. 5; The series is

$\frac{3^2 + 4^2}{3 \times 4}, \frac{4^2 + 5^2}{4 \times 5}, \frac{5^2 + 6^2}{5 \times 6}$,

$\frac{6^2 + 7^2}{6 \times 7}, \frac{7^2 + 8^2}{7 \times 8}, \frac{8^2 + 9^2}{8 \times 9}, \frac{9^2 + 10^2}{9 \times 10}$

So, $\frac{25}{12}, \frac{41}{20}, \frac{61}{30}, \frac{85}{42}, \frac{113}{56}, \frac{145}{72}, \frac{181}{90}$

$\therefore$ Hence, there should be $\frac{85}{42}$ in place of $\frac{85}{40}$.

240. 2; The series is $2^3 + 2^2 + 2$, $3^3 + 3^2 + 3$, $4^3 + 4^2 + 4$, $5^3 + 5^2 + 5$, $6^3 + 6^2 + 6$, $7^3 + 7^2 + 7$, $8^3 + 8^2 + 8$ Thus, 14, 39, 84, 155, 258, 399, 584.
Hence, there should be 155 in place of 156.

241. 4; The series is $(75)^3, (76)^3, (77)^3, (78)^3 (79)^3, (80)^3, (81)^3$
There should be 474552 in place of 474551.

80

242. 3; The series is

$$\frac{1^3+2^3}{1^2+2^2}, \frac{2^3+3^3}{2^2+3^2}, \frac{3^3+4^3}{3^2+4^2}, \frac{4^3+5^3}{4^2+5^2},$$

$$\frac{5^3+6^3}{5^2+6^2}, \frac{6^3+7^3}{6^2+7^2}, \frac{7^3+8^3}{7^2+8^2}$$

The series is

$$\frac{9}{5}, \frac{35}{13}, \frac{91}{25}, \frac{189}{41}, \frac{341}{61}, \frac{559}{85}, \frac{855}{113}$$

Hence, there should be $\frac{91}{25}$ in place of $\frac{94}{25}$.

243. 5; The series is

$$\frac{(1+2)\times 3}{4}, \frac{(2+3)\times 4}{5}, \frac{(3+4)\times 5}{6},$$

$$\frac{(4+5)\times 6}{7}, \frac{(5+6)\times 7}{8}, \frac{(6+7)\times 8}{9}, \frac{(7+8)\times 9}{10}$$

$$= \frac{9}{4}, \frac{20}{5}, \frac{35}{6}, \frac{54}{7}, \frac{77}{8}, \frac{104}{9}, \frac{135}{10}$$

There should be $\frac{54}{7}$ in place of $\frac{59}{7}$.

244. 2; The series is $1^3 + 1^2 = 2$, $3^3 + 3^2 = 36$, $5^3 + 5^2 = 150$, $7^3 + 7^2 = 392$, $9^3 + 9^2 = 810$, $11^3 + 11^2 = 1452$, $13^3 + 13^2 = 2366$.
There should be 392 in place of 393.

245. 3; The series is $22 \times (2 + 2) = 88$, $23 \times (2 + 3) = 115$, $24 \times (2 + 4) = 144$, $25 \times (2 + 5) = 175$, $26 \times (2 + 6) = 208$, $27 \times (2 + 7) = 243$, $28 \times (2 + 8) = 280$.
There should be 144 in place of 145.

246. 5; The series is $8^3 - 8^2$, $7^3 - 7^2$, $6^3 - 6^2$, $5^3 - 5^2$, $4^3 - 4^2$, $3^3 - 3^2$, $2^3 - 2^2$.
There should be 18 in place of 19.

247. 3; The series is $1 \times 2 \times 3 = 6$, $3 \times 4 \times 5 = 60$, $5 \times 6 \times 7 = 210$, $7 \times 8 \times 9 = 504$, $9 \times 10 \times 11 = 990$, $11 \times 12 \times 13 = 1716$, $13 \times 14 \times 15 = 2730$. Hence, 500 should be replaced with 504.

248. 5; The series is $1 + 3 = 4$, $5 + 7 = 12$, $11 + 13 = 24$, $17 + 19 = 36$, $23 + 29 = 52$, $31 + 37 = 68$, $41 + 43 = 84$. Hence, 69 should be replaced with 68.

249. 1; The series is $8 \times 1.5 = 12$, $12 \times 1.5 = 18$, $18 \times 1.5 = 27$, $27 \times 1.5 = 40.5$, $40.5 \times 1.5 = 60.75$, $60.75 \times 1.5 = 91.125$. Hence, 60 should be replaced with 60.75.

250. 2; $10^3 - 1$, $11^3 - 1$, $12^3 - 1$, $13^3 - 1$, $14^3 - 1$, $15^3 - 1$, $16^3 - 1$.
Hence, 1331 should be replaced with 1330.

251. 4; $89 - 2 = 87$, $87 + 4 = 91$, $91 - 8 = 83$, $83 + 16 = 99$, $99 - 32 = 67$, $67 + 64 = 131$.
Hence, 84 should be replaced with 83.

252. 4; The series is $\times 3 - 6$, $\times 4 - 8$, $\times 5 - 10$, ...

253. 2; The series is $+18^2$, $+16^2$, $+14^2$, ...

254. 3; The series is $11^3 - 3$, $12^3 - 6$, $13^3 - 9$ ...

255. 3; The series is $\times 7 + 4$, $\times 6 + 0$, $\times 5 - 4$ $\times 4 - 8$, ...

256. 1; The series is a combination of two series. The first series is 34, $34 + 7 = 41$, $41 + 14 = 55$, $55 + 21 = 76$ and the second series is 47, $47 - 3 = 44$, $44 - 6 = 38$, $38 - 9 = 29$ ...

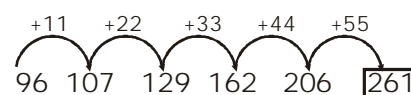257. 4; The series follows the pattern as:
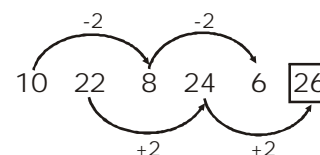
258. 5; The series is
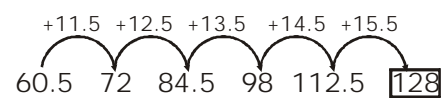
259. 2; The series is

260. 2; The series is $1^2 \times 2 = 2$, $2^2 \times 3 = 12$, $3^2 \times 4 = 36$, $4^2 \times 5 = 80$, $5^2 \times 6 = 150$, $6^2 \times 7 = 252$
Hence, 81 should be replaced by 80.

261. 1; The series is $1 \times (2 + 3) = 5$, $2 \times (3 + 4) = 14$, $3 \times (4 + 5) = 27$, $4 \times (5 + 6) = 44$, $5 \times (6 + 7) = 65$, $6 \times (7 + 8) = 90$.
Hence, 16 should be replaced by 14.

262. 3; The series is $3^2 - 2^2 - 1^2 = 4$, $4^2 - 3^2 - 2^2 = 3$, $5^2 - 4^2 - 3^2 = 0$, $6^2 - 5^2 - 4^2 = -5$, $7^2 - 6^2 - 5^2 = -12$, $8^2 - 7^2 - 6^2 = -21$. Hence, 2 should be replaced by 3.

263. 4; The series is $10^2 + 1^2 + 0^2 = 101$, $11^2 + 1^2 + 1^2 = 123$, $12^2 + 1^2 + 2^2 = 149$, $13^2 + 1^2 + 3^2 = 179$, $14^2 + 1^2 + 4^2 = 213$, $15^2 + 1^2 + 5^2 = 251$
Hence, 218 should be replaced by 213.

264. 2; The series is $\times 2 + 3$, $\times 2 + 5$, $\times 2 + 7$, $\times 2 + 9$, $\times 2 + 11$ ...
Hence, 45 should be replaced by 47.