



SERIES

(Identify wrong number)

Main exam bank PO/Clerk

Pervious year questions

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

- 2 11 38 197 1172 8227 65806
(a) 11 (b) 38
(c) 197 (d) 1172
(e) 8227
- 3601 3602 1803 604 154 36 12
(a) 3602 (b) 1803
(c) 604 (d) 154
(e) 365
- 7.25 47.5 87.5 157.5 247.5 357.5 487.5
(a) 357.5 (b) 87.5
(c) 157.5 (d) 7.5
(e) 47.5
- 1 2 4 9 23 69 186
(a) 2 (b) 9
(c) 23 (d) 4
(e) 69
- 1 3 10 36 152 760 4632
(a) 3 (b) 36
(c) 4632 (d) 760
(e) 152

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

- 1 4 25 256 3125 46656 823543
(a) 4 (b) 823543
(c) 46656 (d) 25
(e) 256
- 1 513 31 61125 253
(a) 1 (b) 5
(c) 31 (d) 61
(e) 125
- 119 130 129 154 203 284 405
(a) 130 (b) 129
(c) 154 (d) 203
(e) 405
- 150 290 560 1120 2140 4230 8400
(a) 2140 (b) 560
(c) 1120 (d) 4230
(e) 290
- 157.5 45 15 6 3 2 1
(a) 1 (b) 2
(c) 6 (d) 157.5
(e) 45

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

- 19 68 102 129 145 154
(a) 154 (b) 129
(c) 145 (d) 102
(e) None of these
- 2 6 15 30 45 43.5 22.5
(a) 6 (b) 30

- (c) 45 (d) 15
(e) 43.5
- 20 10 12 15 30 75 225
(a) 30 (b) 15
(c) 12 (d) 75
(e) 225
- 29 37 21 43 13 53 5
(a) 37 (b) 53
(c) 13 (d) 21
(e) 43
- 3 4 12 45 198 1005 6066
(a) 4 (b) 6066
(c) 45 (d) 1005
(e) 198

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

- 3 5 13 43 176 891 5353
(a) 5 (b) 13
(c) 43 (d) 176
(e) 891
- 39 43 51 60 87 110 167
(a) 167 (b) 87
(c) 60 (d) 110
(e) 43
- 4 5 13 40 105 229 445
(a) 4 (b) 13
(c) 105 (d) 445
(e) 229
- 48 72 108 162 243 366
(a) 72 (b) 108
(c) 162 (d) 243
(e) None of these
- 5531 5506 5425 5304 5135 4910 4621
(a) 5531 (b) 5425
(c) 4621 (d) 5135
(e) 5506

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

- 6 7 16 41 90 154 292
(a) 7 (b) 16
(c) 41 (d) 90
(e) 154
- 6.5 11.8 22.4 38.3 59.5 87.3 117.8
(a) 22.4 (b) 59.5
(c) 11.8 (d) 38.3
(e) 87.3
- 66 91 120 153 190 233 276
(a) 120 (b) 233
(c) 153 (d) 276
(e) 190
- 8 11 17 47 128 371 1100
(a) 11 (b) 47
(c) 17 (d) 371
(e) 128
- 8 12 24 46 72 108 152
(a) 12 (b) 24
(c) 46 (d) 72
(e) None of these



Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

26. 8 276 4125 218 343
(a) 27 (b) 218
(c) 125 (d) 343
(e) None of these
27. 80 42 24 13.5 8.75 6.375 5.1875
(a) 8.75 (b) 13.5
(c) 24 (d) 6.375
(e) 42
28. 850 843 829 808 788 745 703
(a) 843 (b) 829
(c) 808 (d) 788
(e) 745
29. 1331 2197 3375 4914 6859 9261 12167
(a) 4914 (b) 6859
(c) 9261 (d) 2197
(e) 12167
30. 1500 1581 1664 1749 1833 1925 2016
(a) 1581 (b) 1664
(c) 1833 (d) 1925
(e) 1749

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

31. 160 80 120 180 1050 4725 25987.5
(a) 60 (b) 90
(c) 3564 (d) 787.5
(e) 135
32. 2 10 18 54 162 486 1458
(a) 18 (b) 54
(c) 162 (d) 10
(e) None of these
33. 214 18 162 62 143 90 106
(a) -34 (b) 110
(c) 10 (d) 91
(e) 38
34. 250 239 216 181 136 75 4
(a) 239 (b) 181
(c) 75 (d) 216
(e) 136
35. 3 4 10 34 136 685 4116
(a) 22 (b) 276
(c) 72 (d) 1374
(e) 12

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

36. 3 5 12 38 154 914 4634
(a) 1636 (b) 1222
(c) 1834 (d) 3312
(e) 1488
37. 4 2.5 3.5 6.5 15.5 41.25 126.75
(a) 2.5 (b) 3.5
(c) 6.5 (d) 15.5
(e) 41.25
38. 4 6 18 49 201 1011
(a) 1011 (b) 201
(c) 18 (d) 49
(e) None of these

39. 484 240 120 57 26.5 11.25 3.625
(a) 240 (b) 120
(c) 57 (d) 26.5
(e) 11.25
40. 5 348 564 689 716 780 788
(a) 716 (b) 788
(c) 348 (d) 689
(e) 780

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

41. 6 91 5842935 1175635277 70558
(a) 6 (b) 70558
(c) 584 (d) 2935
(e) 35277
42. 8424 4212 2106 1051 526.5 263.25 131.625
(a) 526.5 (b) 1051
(c) 4212 (d) 8424
(e) 263.25
43. 850 600 550 500 475 462.5 456.25
(a) 600 (b) 550
(c) 500 (d) 462.5
(e) None of these
44. 9050 5675 3478 2147 14181077 950
(a) 950 (b) 1418
(c) 5675 (d) 2147
(e) 1077
45. 142 119 100 83 65 59 52
(a) 65 (b) 100
(c) 59 (d) 119
(e) None of these

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

46. 1 4 27 256 3125 46658
(a) 46658 (b) 4
(c) 27 (d) 3125
(e) None of these
47. 74.5 16 25 33 38.5 42 43.5
(a) 33 (b) 38.5
(c) 42 (d) 43.5
(e) 25
48. 1 2 12 63 316 1704 10446
(a) 63 (b) 1704
(c) 316 (d) 10446
(e) 2
49. 1 2 6 21 88 505 2676
(a) 505 (b) 88
(c) 2676 (d) 21
(e) 6
50. 1 2 12 63 316 1704 10446
(a) 63 (b) 1704
(c) 316 (d) 10446
(e) 2

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

51. 1 3 6 11 20 39 70
(a) 3 (b) 39
(c) 11 (d) 20



(e) 6
52. 1 8 28 99 412 2075 12460
(a) 28 (b) 99
(c) 412 (d) 2075
(e) 12460

53. 10 8 13 35 135 671 4007
(a) 8 (b) 671
(c) 135 (d) 13
(e) 35

54. 11 14 22 37 68 96 144
(a) 37 (b) 68
(c) 96 (d) 22
(e) 144

55. 12 237 406 527 604 657
(a) 237 (b) 406
(c) 527 (d) 657
(e) None of these

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

56. 12000 2395 472 89.8 12.96 -2.408 -5.4816
(a) -5.4816 (b) 472
(c) 12.96 (d) -2.408
(e) 2395

57. 125 75 45 25 16.2 9.72 5.832
(a) 25 (b) 45
(c) 9.72 (d) 16.2
(e) 75

58. 144 215 540 1890 8505 46777.5
304053.75
(a) 215 (b) 540
(c) 1890 (d) 8505
(e) 46777.5

59. 15 28 43 60 79 101 123
(a) 28 (b) 43 :
(c) 60 (d) 101
(e) 123

60. 150 148 143 133 116 80 53
(a) 133 (b) 116
(c) 80 (d) 148
(e) 143

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

61. 16 19 21 30 46 71 107
(a) 19 (b) 21
(c) 30 (d) 46
(e) 71

62. 16 4 2 1.5 1.75 1.875
(a) 1.875 (b) 1.75
(c) 1.5 (d) 2
(e) 4

63. 17 17.25 18.25 20.75 24.5 30.75
(a) 23.25 (b) 24.25
(c) 24.5 (d) 24.75
(e) None of these

64. 18 119 708 3534 14136 42405
(a) 708 (b) 3534
(c) 14136 (d) 42405
(e) None of these

65. 18 21 2535 52 78 115
(a) 35 (b) 52
(c) 78 (d) 21
(e) 115

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

66. 18000 3600 720 142.2 28.8 5.76
(a) 28.8 (b) 3600
(c) 5.76 (d) 142.2
(e) None of these

67. 2 54 300 1220 3674 7350
(a) 3674 (b) 1220
(c) 300 (d) 54
(e) None of these

68. 2 13 27 113 561 3369 23581
(a) 13 (b) 27
(c) 113 (d) 561
(e) 3369

69. 2 3 11 38 102 229 443
(a) 11 (b) 229
(c) 102 (d) 38
(e) 3

70. 2 3 6 18 109 1944 209952
(a) 3 (b) 6
(c) 18 (d) 109
(e) 1944

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

71. 2 4 5 8 13 21 34
(a) 4 (b) 5
(c) 8 (d) 13
(e) 21

72. 2 6 16 38 84 176 368
(a) 6 (b) 16
(c) 38 (d) 84
(e) 176

73. 2 6 24 96 285 568 567
(a) 6 (b) 96
(c) 24 (d) 568
(e) 567

74. 2 6 2496 285 568 567
(a) 6 (b) 96
(c) 24 (d) 568
(e) 567

75. 2 7 18 45 99 209 431
(a) 172 (b) 171
(c) 174 (d) 175
(e) None of these

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

76. 2222 1879 1663 1538 1474 1447 1440
(a) 1879 (b) 1538
(c) 1474 (d) 1447
(e) 1440

77. 3 10 33 111 349 1072 3252
(a) 33 (b) 111
(c) 349 (d) 1072
(e) 10



78. 3 10 33 111 349 1072 3252

- (a) 33 (b) 111
(c) 349 (d) 1072
(e) 10

79. 3 35 226 1160 4660 13998

- (a) 13998 (b) 4660
(c) 226 (d) 1160
(e) None of these

80. 3 4 13 38 87 166 289

- (a) 38 (b) 13
(c) 87 (d) 166
(e) 4

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

81. 3 9 23 99 479 2881 20159

- (a) 9 (b) 23
(c) 99 (d) 479
(e) 2881

82. 32 34 37 46 62 87 123

- (a) 34 (b) 37
(c) 62 (d) 87
(e) 46

83. 33 321 465 537 573 590 600

- (a) 321 (b) 465
(c) 573 (d) 537
(e) 590

84. 37 47 52 67 87 112 142

- (a) 47 (b) 52
(c) 67 (d) 87
(e) 112

85. 4 2 3.5 7.5 26.25 118.125

- (a) 118.125 (b) 26.25
(c) 3.5 (d) 2
(e) 7.5

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

86. 4 5 9 29 111 556 3325

- (a) 5 (b) 9
(c) 29 (d) 111
(e) 556

87. 4 24 161 965 4795 19176 57525

- (a) 161 (b) 965
(c) 57525 (d) 19176
(e) None of these

88. 4 3 4.5 8.5 20 53 162.5

- (a) 3 (b) 4.5
(c) 8.5 (d) 20
(e) 53

89. 4 6 12 30 75 315 1260

- (a) 315 (b) 75
(c) 12 (d) 6
(e) 30

90. 4444 2224 1114 556 281.5 142.75 73.375

- (a) 2224 (b) 281.5
(c) 1114 (d) 556
(e) 142.75

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

91. 5 4 6 15 56 285 1644

- (a) 56 (b) 285
(c) 6 (d) 15
(e) 4

92. 50 51 47 56 42 65 29

- (a) 51 (b) 47
(c) 56 (d) 42
(e) 65

93. 6 4 58.5 18 48 139

- (a) 8.5 (b) 48/;
(c) 139 (d) 8.5
(e) 5

94. 6 49 305 1545 6196 18603 37218

- (a) 6196 (b) 49
(c) 305 (d) 1545
(e) 18603

95. 6 7 9 13 26 37 69

- (a) 7 (b) 26
(c) 69 (d) 37
(e) 9

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

96. 68 10 42 146 770 4578

- (a) 868 (b) 8872
(c) 858 (d) 882
(e) None of these

97. 7 8 35 160 505 1232 2563

- (a) 35 (b) 160
(c) 505 (d) 1232
(e) 2563

98. 7 9 16 25 41 68 107 173

- (a) 107 (b) 16
(c) 41 (d) 68
(e) 254

99. 7 18 40 106 183 282 403

- (a) 18 (b) 282
(c) 40 (d) 106
(e) 183

100. 7 4 6 9 20 52.5 160.5

- (a) 6 (b) 4
(c) 20 (d) 9
(e) 52.5

Direction: In the following number series, a **wrong number** is given. Find out that **wrong number**.

101. 8 4 4 6 12 28 90

- (a) 18 (b) 42
(c) 21 (d) 24
(e) None of these

102. 8 21 47 86 140 203 281

- (a) 47 (b) 86
(c) 140 (d) 203
(e) None of these

103. 8 5 6.5 11 26 68 207.5

- (a) 68 (b) 6.5
(c) 11 (d) 26
(e) 207.5

104. 9 10 18 45 109 235 450

- (a) 10 (b) 9



- (c) 18 (d)109
(e) 235
105. 9 10 18 45 109 235 45010 (b) 9
(c) 18 (d)109
(e) 235
106. 950 661 436 269 146 65 16
(a) 436 (b) 65
(c) 269 (d)661
(e) 146

ANSWER KEY

1.d	2.d	3.e	4.e	5.d	6.d	7.c	8.a	9.c	10.a	11.d
12.e	13.c	14.e	15.c	16.d	17.d	18.c	19.e	20.a		
21.e	22.e	23.b	24.c	25.c	26.b	27.c	28.d	29.a		
30.c	31.e	32.d	33.d	34.e	35.c	36.c	37.c	38.c		
39.b	40.a	41.c	42.b	43.a	44.e	45.a	46.a	47.e		
48.b	49.a	50.b	51.b	52.c	53.b	54.b	55.e	56.b		
57.a	58.a	59.d	60.c	61.a	62.b	63.b	64.b	65.d		
66.d	67.a	68.a	69.b	70.d	71.a	72.e	73.c	74.c		
75.e	76.e	77.a	78.a	79.c	80.d	81.c	82.a	83.e		
84.a	85.c	86.c	87.b	88.c	89.b	90.d	91.b	92.d		
93.b	94.c	95.b	96.d	97.c	98.d	99.c	100.a			
101.c	102.c	103.c	104.e	105.e	106.c					

DETAILED SOLUTIONS

(4) The series is based on the following pattern:

$$11 = 2 \times 3 + 5$$

$$38 = 11 \times 4 - 6$$

$$197 = 38 \times 5 + 7$$

$$1172 \neq 197 \times 6 - 8$$

\therefore 1172 is wrong and it should be replaced by $197 \times 6 - 8 = 1174$

(2)

(d) The sequence is based on following pattern:

$$(3601/1) + 1 = 3602$$

$$(3602/2) + 1 = 1801 + 2 = 1803$$

$$(1803/3) + 3 = 601 + 3 = 604$$

$$(604/4) + 4 = 151 + 4 = 155 \neq [154]$$

$$(155/5) + 5 = 31 + 5 = 36$$

$$(36/6) + 6 = 6 + 6 = 12$$

(3)

(5) The series is based on the following pattern:

$$487.5 - 357.5 = 130$$

$$357.5 - 247.5 = 110$$

$$247.5 - 157.5 = 90$$

$$157.5 - 87.5 = 70$$

$$87.5 - 47.5 = [40]$$

$$87.5 - 37.5 = 50$$

$$37.5 - 7.5 = 30$$

Clearly, 47.5 is the wrong number. It should be replaced by 37.5.

(4)

(e) The pattern is :

$$1 \times 3 - 1 = 2$$

$$2 \times 3 - 2 = 4$$

$$4 \times 3 - 3 = 9$$

$$9 \times 3 - 4 = 23$$

$$23 \times 3 - 5 = 69 - 5 = 64 \neq [69]$$

$$64 \times 3 - 6 = 192 - 6 = 186$$

(5)

(d) The pattern is :

$$1 \times 1 + 2 = 3$$

$$3 \times 2 + 4 = 10$$

$$10 \times 3 + 6 = 36$$

$$36 \times 4 + 8 = 152$$

$$152 \times 5 + 10 = 770 \neq [760]$$

$$770 \times 6 + 12 = 4632$$

(6)

(d) The pattern of the number series is:

$$1 = 1 \quad 2^2 = 4$$

$$3^3 = 27 \neq [25] \quad 4^4 = 256$$

$$5^5 = 3125 \quad 6^6 = 46656$$

(7)

(c) The pattern of the number series is:

$$1 + 2^2 = 1 + 4 = 5$$

$$5 + 2^3 = 5 + 8 = 13$$

$$13 + 2^4 = 13 + 16 = 29 \neq [31]$$

$$29 + 2^5 = 29 + 32 = 61$$

$$61 + 2^6 = 61 + 64 = 125$$

(8)

(a) The pattern is :

$$119 + 1^2 = 119 + 1 = 120 \neq [130]$$

$$120 + 3^2 = 120 + 9 = 129$$

$$129 + 5^2 = 129 + 25 = 154$$

$$154 + 7^2 = 154 + 49 = 203$$

$$203 + 9^2 = 203 + 81 = 284$$

$$284 + 11^2 = 284 + 121 = 405$$

(9)

(c) The pattern is:

$$150 \times 2 - 1 \times 10$$

$$= 300 - 10 = 290$$

$$290 \times 2 - 2 \times 10$$

$$= 580 - 20 = 560$$

$$560 \times 2 - 3 \times 10 = 1120 - 30$$

$$= 1090 \neq [1120]$$

$$1090 \times 2 - 4 \times 10$$

$$= 2180 - 40 = 2140$$

$$2140 \times 2 - 5 \times 10$$

$$4280 - 50 = 4230$$

(10)

(a) The pattern is :

$$157.5 / 3.5 = 45$$

$$45 / 3 = 15$$

$$15 / 2.5 = 6$$

$$6 / 2 = 3$$

$$3 / 1.5 = 2$$

$$2 / 1 = 2 \neq [1]$$

(11)

(d) $19 + 7^2 = 19 + 49 = 66$

$$68 + 6^2 = 68 + 36 = 104 \neq [102]$$

$$104 + 5^2 = 104 + 25 = 129$$

$$129 + 4^2 = 129 + 16 = 145$$

$$145 + 3^2 = 145 + 9 = 154$$



(12)

(e) The pattern of the number series is :

$$2 \times 3 = 6$$

$$6 \times 2.5 = 15$$

$$15 \times 2 = 30$$

$$30 \times 1.5 = 45$$

$$45 \times 1 = 45 \neq [43.5]$$

$$45 \times 0.5 = 22.5$$

(13)

(c) The pattern is :

$$20 \times 0.5 = 10$$

$$10 \times 1 = 10 \neq [20]$$

$$10 \times 1.5 = 15$$

$$15 \times 2 = 30$$

$$30 \times 2.5 = 75$$

$$75 \times 3 = 225$$

(14)

(e) The pattern is:

$$29 + 1 \times 8 = 27$$

$$37 - 2 \times 8 = 37 - 16 = 21$$

$$21 + 3 \times 8 = 21 + 24 = 45 \neq [43]$$

$$45 - 4 \times 8 = 45 - 32 = 13$$

$$13 + 5 \times 8 = 13 + 40 = 53$$

$$53 - 6 \times 8 = 53 - 48 = 5$$

(15)

(c) The pattern is :

$$4 + 1^3 = 5$$

$$5 + 2^3 = 13$$

$$13 + 3^3 = 40$$

$$40 + 4^3 = 104 \neq [105]$$

$$104 + 5^3 = 229$$

$$229 + 6^3 = 445$$

(16)

(d) The pattern of the number of series is:

$$3 \times 1 + 2 = 5$$

$$5 \times 2 + 3 = 13$$

$$13 \times 3 + 4 = 43$$

$$43 \times 4 + 5 = 177 \neq [176]$$

$$177 \times 5 + 6 = 891$$

(17)

(d) The pattern is :

$$39 + 2^2 = 39 + 4 = 43$$

$$43 + 2^3 = 43 + 8 = 51$$

$$51 + 3^2 = 51 + 9 = 60$$

$$60 + 3^3 = 60 + 9 = 69$$

$$87 + 4^2 = 87 + 16 =$$

$$103 \neq [110]$$

$$103 + 4^3 = 103 + 64 = 167$$

(18)

(e) The pattern is :

$$3 \times 1 + 1^2 = 3 + 1 = 4$$

$$4 \times 2 + 2^2 = 8 + 4 = 12$$

$$12 \times 3 + 3^2 = 36 + 9 = 45$$

$$45 \times 4 + 4^2 = 180 + 16$$

$$= 196 \neq [198]$$

$$196 \times 5 + 5^2 = 980 + 25 = 1005$$

$$1005 \times 6 + 6^2 = 6030 + 36 = 6066$$

(19)

$$(e) 48 (3/2) = 72; 72 \times (3/2) = 108$$

$$108 (3/2) = 162; 162 (3/2) = 243$$

$$243 (3/2) = 364.5 \neq 366$$

(20)

(a) The pattern is :

$$5531 - 5506 = 25 = 5^2$$

$$5555 - 5506 = 49 = 7^2$$

$$5506 - 5425 = 81 = 9^2$$

$$5425 - 5304 = 121 = 11^2$$

$$5304 - 5135 = 169 = 13^2$$

$$5135 - 4910 = 225 = 15^2$$

$$4910 - 4621 = 289 = 17^2$$

Clearly, 5531 is wrong, which should be substituted by 5555.

(21)

(e) The pattern of the number of series is:

$$6 + 1^2 = 6 + 1 = 7$$

$$7 + 3^2 = 7 + 9 = 16$$

$$16 + 5^2 = 16 + 25 = 41$$

$$41 + 7^2 = 41 + 49 = 90$$

$$90 + 9^2 = 90 + 81 = 171 \neq [154]$$

$$171 + 11^2 = 171 + 121 = 292$$

(22)

(e) The pattern is :

$$6.5 + 5.3 = 11.8$$

$$11.8 + 2 \times 5.3 = 11.8 + 10.6 = 22.4$$

$$22.4 + 3 \times 5.3 = 22.4 + 15.9 = 38.3$$

$$38.3 + 4 \times 5.3 = 38.3 + 21.2 = 59.5$$

$$59.5 + 5 \times 5.3 = 59.5 + 26.5 = 86 \neq [87.3]$$

$$86 + 6 \times 5.3 = 86 + 31.8 = 117.8$$

(23)

(2) The series is based on the following pattern:

$$66 + 25 = 91$$

$$91 + 29 = 120$$

$$120 + 33 = 153$$

$$153 + 37 = 190$$

$$190 + 41 = 231 \neq [233]$$

$$231 + 45 = 276$$

Clearly, 233 is wrong number. It should be 231.

(24)

(c) The pattern of the number series is:

$$8 + 3^1 = 11$$

$$11 + 3^2 = 11 + 9 = 20 \neq [17]$$

$$20 + 3^3 = 20 + 27 = 47$$

$$47 + 3^4 = 47 + 81 = 128$$

$$128 + 3^5 = 128 + 243 = 371$$

(25)

(c) The pattern is:

$$8 + 4 \times 1 = 12 ; 12 + 4 \times 3 = 24$$

$$24 + 4 \times 5 = 44 \neq [46]$$

$$44 + 4 \times 7 = 72$$

$$72 + 4 \times 9 = 108$$

(26)

$$(b) 2^3 = 8 : 3^3 = 27$$

$$4^3 = 64 : 5^3 = 125$$

$$6^3 = 216 \neq [218]$$

$$7^3 = 343$$

(27)



(c) The pattern is:

$$(80 / 2) + 2 = 40 + 2 = 42$$

$$(42 / 2) + 2 = 21 + 2 = 23 \neq [24]$$

$$(23 / 2) + 2 = 11.5 + 2 = 13.5$$

$$(13.5 / 2) + 2 = 6.75 + 2 = 8.75$$

$$(8.75 / 2) + 2 = 4.375 + 2 = 6.375$$

(28)

(d) The pattern of the number series is:

$$850 - 1 \times 7 = 843$$

$$843 - 2 \times 7 = 829$$

$$829 - 3 \times 7 = 808$$

$$808 - 4 \times 7 = 780 \neq [788]$$

$$780 - 5 \times 7 = 745$$

$$745 - 6 \times 7 = 703$$

(29)

(1) The series is based on the following pattern:

$$11 \times 11 \times 11 = 1331$$

$$13 \times 13 \times 13 = 2197$$

$$15 \times 15 \times 15 = 3375$$

$$17 \times 17 \times 17 = 4913 \neq [4914]$$

$$19 \times 19 \times 19 = 6859$$

Clearly, 4914 is wrong number. It should be replaced by 4913.

(30)

(3) The series is based on the following pattern:

$$1500 + 81 = 1581$$

$$1581 + 83 = 1583$$

$$1664 + 85 = 1749$$

$$1749 + 87 = 1836 \neq [1833]$$

$$1836 + 89 = 1925$$

$$1925 + 91 = 2016$$

Clearly, 1833 is wrong number. It should be replaced by 1836.

(31)

(e) The series is based on following pattern:

$$160 \times 0.5 = 80$$

$$80 \times 1.5 = 120$$

$$120 \times 2.5 = [300]$$

$$300 \times 3.5 = 1050$$

$$1050 \times 4.5 = 4725$$

$$4725 \times 5.5 = 25947.5$$

Therefore, the number 180 is wrong.

∴ According to the question, the new series starts from the number 180 in the same pattern:

$$180 \times 0.5 = 90$$

$$90 \times 1.5 = [135]$$

Hence, the number 135 is required answer.

(32)

(d) The pattern is:

$$2 \times 3 = 6 \neq [10]$$

$$6 \times 3 = 18 \quad ; \quad 18 \times 3 = 54$$

$$54 \times 3 = 162$$

(33)

(d) The series is based on following pattern:

$$214 - (14)^2 = 18$$

$$18 + (12)^2 = 162$$

$$162 - (10)^2 = 62$$

$$62 + 8^2 = [126]$$

$$126 - 6^2 = 90$$

$$90 + 4^2 = 106$$

Therefore, the number 143 is wrong.

∴ According to the question, the new series starts from the 143 in the same pattern.

$$143 - (14)^2 = -53$$

$$-53 + (12)^2 = [91]$$

Hence, the number 91 is required answer.

(34)

(e) The pattern is :

$$250 - 11 = 239$$

$$239 - (11 \times 2 + 1) = 239 - 23 = 216$$

$$216 - (11 \times 3 + 2) = 216 - 35 = 181$$

$$181 - (11 \times 4 + 3) = 181 - 47 = 134 \neq [136]$$

$$134 - (11 \times 5 + 4) = 134 - 59 = 75$$

$$75 - (11 \times 6 + 5) = 75 - 71 = 4$$

(35)

(c) The series is based on following pattern:

$$3 \times 1 + 1 = 4$$

$$4 \times 2 + 2 = 10$$

$$10 \times 3 + 3 = [33]$$

$$33 \times 4 + 4 = 136$$

$$136 \times 5 + 5 = 685$$

$$685 \times 6 + 6 = 4116$$

Therefore, the number 34 is wrong.

∴ According to question, the new series starts from numbers 34 in the same pattern

$$34 \times 1 + 1 = 35$$

$$35 \times 2 + 2 = [72]$$

Hence, the number 72 is required answer.

(36)

(c) The series is based on following pattern:

$$3 \times 1 + 2 = 5$$

$$5 \times 2 + 2 = 12$$

$$13 \times 3 + 2 = 38$$

$$38 \times 4 + 2 = 154$$

$$154 \times 5 + 2 = [772]$$

$$772 \times 6 + 2 = 4634$$

Therefore, the number 914 is wrong.

∴ According to question, the new series is as follows:

$$914 \times 1 + 2 = 916$$

$$916 \times 2 + 2 = [1834]$$

$$1834 \times 3 + 2 = 5504$$

Therefore the required number is 1834

(37)

(c) The pattern of the number series is:

$$4 \times 0.5 + 0.5 = 2 + 0.5 = 2.5$$

$$2.5 \times 1 + 1 = 3.5$$

$$3.5 \times 1.5 + 1.5 = 6.75 \neq [6.5]$$

$$6.75 \times 2 + 2 = 15.5$$

$$15.5 \times 2.5 + 2.5 = 38.75 + 2.5$$

$$= 41.25$$

$$41.25 \times 3 + 3 = 123.75 + 3 = 126.75$$

(38)

$$(c) 4 \times 1 + 2 = 4 + 2 = 6$$

$$4 \times 2 + 3 = 12 + 3 = 15 \neq 18$$

$$15 \times 3 + 4 = 45 + 4 = 49$$



$$49 \times 4 + 5 = 196 + 5 = 201$$

$$201 \times 5 + 6 = 1005 + 6 = 1011$$

(39)

(b) The pattern of the number series is:

$$(484/2) - 2 = 242 - 2 = 240$$

$$(440/2) - 2 = 220 - 2 = 218 \neq [120]$$

$$(118/2) - 2 = 59 - 2 = 57$$

$$(57/2) - 2 = 28.5 - 2 = 26.5$$

(40)

(a) The pattern of the number series is:

$$5 + 7^3 = 5 + 343 = 348$$

$$348 + 6^3 = 348 + 216 = 564$$

$$564 + 5^3 = 564 + 125 = 689$$

$$689 + 4^3 = 689 + 64 = 753, \text{ not } [716]$$

$$753 + 3^3 = 753 + 27 = 780$$

(41)

(c) The pattern of the number series is:

$$6 \times 7 + 7^2 = 42 + 49 = 91$$

$$91 \times 6 + 6^2 = 546 + 36 = 582 \neq [584]$$

$$582 \times 5 + 5^2 = 2910 + 25 = 2935$$

$$2935 \times 4 + 4^2 = 11740 + 16 = 11756$$

$$11756 \times 3 + 3^2 = 35268 + 9 = 35277$$

(42)

(b) The pattern of the number series is:

$$14824 / 2 = 4212$$

$$4212 / 2 = 2106$$

$$2106 / 2 = 1053 \neq [1051]$$

$$1053 / 2 = 526.5$$

$$526.5 / 2 = 263.25$$

(43)

(a) The pattern is:

$$850 - 200 = 650 \neq [600]$$

$$650 - 100 = 550$$

$$550 - 50 = 500$$

$$500 - 25 = 475$$

$$475 - 12.5 = 462.5$$

(44)

(c) The pattern of the number series is:

$$9050 - 15^3 = 9050 - 3375 = 5675$$

$$5675 - 13^3 = 5675 - 2197 = 3478$$

$$3478 - 11^3 = 3478 - 1331 = 2147$$

$$2147 - 9^3 = 2147 - 729 = 1418$$

$$1418 - 7^3 = 1418 - 343 = 1075 \neq [1077]$$

(45)

(a) The pattern is:

$$142 - 23 = 119 ; 119 - 19 = 100$$

$$100 - 17 = 83$$

$$83 - 13 = 70 \neq [65]$$

$$70 - 11 = 59$$

$$59 - 7 = 52$$

(46)

(1) The series is based on the following pattern:

$$1^1 = 1 \quad 2^2 = 4$$

$$3^3 = 27 \quad 4^4 = 256$$

$$5^5 = 3125 \quad 6^6 = [46656]$$

Hence, 46658 is the wrong number. **(47)**

(e) The pattern of the number series is:

$$4.5 + 11.5 = 16$$

$$16 + 9.5 = 25.5 \neq [25]$$

$$25.5 + 7.5 = 33$$

$$33 + 5.5 = 38.5$$

(48)

(b) The pattern is:

$$1 \times 1 + 1^3 = 2$$

$$2 \times 2 + 2^3 = 12$$

$$12 \times 3 + 3^3 = 63$$

$$63 \times 4 + 4^3 = 316$$

$$316 \times 5 + 5^3 = 1705 \neq [1704]$$

(49)

(a) The pattern is:

$$1 \times 1 + 1 = 2$$

$$2 \times 2 + 2 = 6$$

$$6 \times 3 + 3 = 21$$

$$21 \times 4 + 4 = 88$$

$$88 \times 5 + 5 = 440 + 5 = 445$$

$$= 445 \neq [505]$$

$$445 \times 6 + 6 = 2670 + 6 = 2676$$

(50)

(b) The pattern is:

$$1 \times 1 + 1^3 = 2$$

$$2 \times 2 + 2^3 = 12$$

$$12 \times 3 + 3^3 = 63$$

$$63 \times 4 + 4^3 = 316$$

$$316 \times 5 + 5^3 = 1705 \neq [1704]$$

(51)

(d) The series is based on following pattern:

$$2 \times 3 = 6$$

$$6 \times 3 = 18$$

$$18 \times 6 = 108 \div [109]$$

$$108 \times 18 = 1944$$

$$1944 \times 108 = 209952$$

Hence, 109 is the wrong number and it should be replaced by 108.

(52)

(e) The pattern of the given series is :

$$1 \times 1 + 7 \times 1 = 1 + 7$$

$$8 \times 2 + 6 \times 2 = 16 + 12 = 28$$

$$28 \times 3 + 5 \times 3 = 84 + 15 = 99$$

$$99 \times 4 + 4 \times 4 = 396 + 16 = 412$$

$$412 \times 5 + 3 \times 5 = 2060 + 15 = 2075$$

$$2075 \times 6 + 2 \times 6 = 12450 + 12$$

$$= 12462 \neq [12460]$$

(53)

(c) The pattern is:

$$10 \times 1 - 2 = 8$$

$$8 \times 2 - 3 = 13$$

$$13 \times 3 - 4 = 35$$

$$35 \times 4 - 5 = 135$$

$$135 \times 5 - 6 = 675 - 6$$

$$= 669 \neq [671]$$

$$669 \times 6 - 7 = 4014 - 7 = 4007$$

(54)

(b) The pattern is :

$$11 + 1 \times 3 = 11 + 3 = 14$$

$$14 + 2 \times 4 = 14 + 8 = 22$$

$$22 + 3 \times 5 = 22 + 15 = 37$$



$$37 + 4 \times 6 = 37 + 24 = 61 \neq [68]$$

$$61 + 5 \times 7 = 61 + 35 = 96$$

$$96 + 6 \times 8 = 96 + 48 = 144$$

(55)

(5) The series is based on the following pattern:

$$12 + 15^2 = 12 + 225 = 237$$

$$237 + 13^2 = 237 + 169 = 406$$

$$406 + 11^2 = 406 + 121 = 527$$

$$527 + 9^2 = 527 + 81 = 608 \neq [604]$$

$$608 + 7^2 = 608 + 49 = 657$$

Hence, 604 is the wrong number

(56)

(b) The pattern of the given series is :

$$(12000/5) - 5 = 2400 - 5 = 2395$$

$$(2395/5) - 5 = 479 - 5 = 474 \neq [472]$$

$$(474/5) - 5 = 94.8 - 5 = 89.8$$

$$(89.8/5) - 5 = 17.96 - 5 = 12.96$$

(57)

(a) The pattern is:

$$125 \times (3/5) = 75$$

$$75 \times (3/5) = 45$$

$$45 \times (3/5) = 27 \neq [25]$$

$$27 \times (3/5) = 16.2$$

$$16.2 \times (3/5) = 9.72$$

(58)

(a) The pattern of the given series is :

$$144 \times 1.5 = 216 \neq [215]$$

$$216 \times 2.5 = 540$$

$$540 \times 3.5 = 1890$$

$$1890 \times 4.5 = 8505$$

$$8505 \times 5.5 = 46777.5$$

(59)

(d) The pattern is:

$$15 + 13 = 28$$

$$28 + 15 = 43$$

$$43 + 17 = 60$$

$$60 + 19 = 79$$

$$79 + 21 = 100 \neq [101]$$

(60)

(c) The pattern is:

$$150 - 2 = 148$$

$$148 - 5 (= 2 + 3) = 143$$

$$143 - 10 (= 5 + 5) = 133$$

$$133 - 17 (= 10 + 7) = 116$$

$$116 - 26 (= 17 + 9) = 90$$

$$\neq [80]$$

$$= 90 - 37 (= 26 + 11) = 53$$

(61)

(1) The series is based on the following pattern:

$$107 - 71 = 36 = 6^2$$

$$71 - 46 = 25 = 5^2$$

$$46 - 30 = 16 = 4^2$$

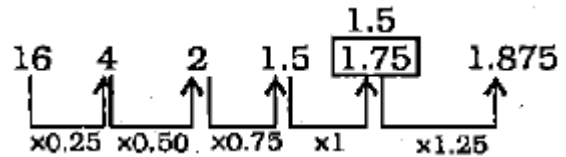
$$30 - 21 = 9 = 3^2$$

$$21 - 19 = 2 \neq 2^2$$

\therefore 19 should be replaced by 17 for which $21 - 17 = 2^2$

(62)

(2) The series is based on the following pattern:



Obviously, 1.75 is the wrong number which should be replaced by 1.5.

(63)

(b) The original series is based on following pattern:

$$17 + 0.25 \times 1^2 = 17.25$$

$$17.25 + 0.25 \times 2^2 = 18.25$$

$$18.25 + 0.25 \times 3^2 = [20.50]$$

$$20.50 + 0.25 \times 4^2 = 24.50$$

$$24.50 + 0.25 \times 5^2 = 30.75$$

Therefore, the number 20.75 is wrong. Hence, the new series is as follows:

$$20.75 + 0.25 \times 1^2 = 21.00 \text{ ----- 2nd. term}$$

$$21.00 + 0.25 \times 2^2 = 22.00 \text{ ----- 3rd. term}$$

$$22.00 + 0.25 \times 3^2 = [24.25 \text{ ----- 4th. term}]$$

Therefore, the fourth term of the new series is 24.25

(64)

(2) The series is based on the following pattern:

$$18 \times 7 - 7 = 126 - 7 = 119$$

$$119 \times 6 - 6 = 714 - 6 = 708$$

$$708 \times 5 - 5 = 3540 - 5 = 3535 \neq [3534]$$

$$3535 \times 4 - 4 = 14140 - 4 = 14136$$

Hence 3534 is the wrong number.

(65)

(c) The pattern is:

$$7 + 1^3 = 7 + 1 = 8$$

$$8 + 3^3 = 8 + 27 = 35$$

$$35 + 5^3 = 35 + 125 = 160$$

$$160 + 7^3 = 160 + 343 = 503$$

$$\neq [505]$$

$$503 + 9^3 = 503 + 729 = 1232$$

$$1232 + 11^3 = 1232 + 1331 = 2563$$

(66)

(4) The series is based on the following pattern:

$$1800/5 = 3600$$

$$3600/5 = 720$$

$$720/5 = 144 \neq [142.5]$$

$$144/5 = 28.8$$

$$28.8/5 = 5.76$$

Hence 142.5 is the wrong number.

(67)

$$(a) 2 \times 6 + 7 \times 6 = 12 + 42 = 54$$

$$54 \times 5 + 6 \times 5 = 270 + 30 = 300$$

$$300 \times 4 + 5 \times 4 = 1200 + 20 = 1220$$

$$1220 \times 3 + 4 \times 3 = 3660 + 12 = 3672 \neq [3674]$$

$$3672 \times 2 + 3 \times 2 = 7344 + 6 = 7350$$

(68)

(a) The series is based on following pattern:

$$2 \times 2 + 7 = 11 \text{ (not 13)}$$

$$11 \times 3 - 6 = 27$$

$$27 \times 4 + 5 = 113$$

$$113 \times 5 - 4 = 561$$



Obviously, the number 13 is wrong and it should be replaced with 11.

(69)

(b) The sequence is based on following pattern:

$$3 - 2 = 1^3$$

$$11 - 3 = 8 = 2^3$$

$$38 - 11 = 27^3$$

$$102 - 38 = 64 = 4^3$$

But

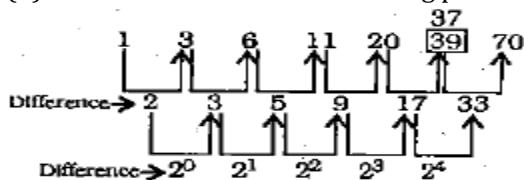
$229 - 102 = 127 \neq 5^3$ $227 - 102 = 125 = 5^3$
--

$$443 - 227 = 125 = 6^3$$

Obviously 229 is the wrong number.

(70)

(b) The series is based on following pattern:



Obviously, 39 is the wrong number and it should be replaced with 37..

(71)

(a) The series is based on following pattern:

$$2 + 3 = 5 \quad 5 + 3 = 8$$

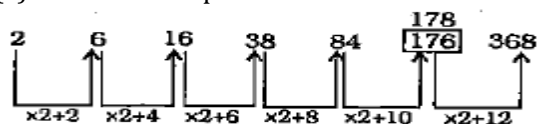
$$8 + 5 = 13 \quad 13 + 8 = 21$$

$$21 + 13 = 34$$

Obviously, the number 4 is wrong and it should be replaced with 3.

(72)

(e) The followed pattern is:



Hence, the wrong number is 176.

(73)

(c) The pattern is:

$$2 \times 6 - 6 = 6$$

$$6 \times 5 - 5 = 25 \neq [24]$$

$$24 \times 4 - 4 = 96$$

$$96 \times 3 - 3 = 285$$

(74)

(b) The pattern is:

$$2 \times 6 - 6 = 6$$

$$6 \times 5 - 5 = 25 \neq [24]$$

$$25 \times 4 - 4 = 96$$

$$96 \times 3 - 3 = 285$$

(75)

(a) The original series is based on following pattern:

$$2 \times 2 + 3 = 7$$

$$7 \times 2 + 5 = [19]$$

$$19 \times 2 + 7 = 45$$

$$45 \times 2 + 9 = 99$$

$$99 \times 2 + 11 = 209$$

$$209 \times 2 + 13 = 431$$

Therefore, the number 18 is wrong. Hence, the new series is as follows:

$$18 \times 2 + 3 = 39 \text{ -----2nd. term}$$

$$39 \times 2 + 5 = 83 \text{ -----3rd term}$$

$$83 \times 2 + 7 = [173 \text{ -----4th. term}]$$

$$173 \times 2 + 9 = 355$$

Therefore, the fourth term of the new series is 173.

(76)

(e) The pattern of the given series is :

$$2222 - 7^3 = 2222 - 343 = 1879$$

$$1879 - 6^3 = 1879 - 216 = 1663$$

$$1663 - 5^3 = 1663 - 125 = 1538$$

$$1538 - 4^3 = 1538 - 64 = 1474$$

$$1474 - 3^3 = 1474 - 27 = 1447$$

$$1447 - 2^3 = 1447 - 8 = 1439 \neq [1440]$$

(77)

(a) The pattern is:

$$3 \times 3 + 1^2 = 9 + 1 = 10$$

$$10 \times 3 + 2^2 = 30 + 4 = 34 \neq [33]$$

$$34 \times 3 + 3^2 = 102 + 9 = 111$$

$$111 \times 3 + 4^2 = 333 + 16 = 349$$

$$349 \times 3 + 5^2 = 1047 + 25 = 1072$$

(78)

(a) The pattern is:

$$3 \times 3 + 1^2 = 9 + 1 = 10$$

$$10 \times 3 + 2^2 = 30 + 4 = 34 \neq [34]$$

$$34 \times 3 + 3^2 = 102 + 9 = 111$$

$$111 \times 3 + 4^2 = 333 + 16 = 349$$

$$349 \times 3 + 5^2 = 1047 + 25 = 1072$$

(79)

(3) The series is based on the following pattern:

$$3 \times 7 + 2 \times 7 = 21 + 14 = 35$$

$$35 \times 6 + 3 \times 6 = 210 + 18 = 228 \neq [226]$$

$$228 \times 5 + 4 \times 5 = 1140 + 20 = 1160$$

$$1160 \times 4 + 5 \times 4 = 4640 + 20 = 4660$$

$$4660 \times 3 + 6 \times 3 = 13980 + 18 = 13998$$

Hence, 226 is the wrong number.

(80)

(d) The series is based on following pattern:

$$4 - 3 = 2^2$$

$$13 - 4 = 9 = 3^2$$

$$38 - 13 = 25 = 5^2$$

$$87 - 38 = 49 = 7^2$$

$$168 - 87 = 81 = 9^2$$

$$289 - 168 = 121 = 11^2$$

Obviously, 166 is wrong number.

(81)

(c) The series is based on following pattern:

$$3 \times 2 + 3 = 9$$

$$9 \times 3 - 4 = 23$$

$$23 \times 4 + 5 = 97 \text{ (not 99)}$$

$$97 \times 5 - 6 = 479$$



Obviously, the number 99 is wrong and it should be replaced with 97.

(82)

(a) The pattern of the number series is:

$$\begin{aligned} 32 + 1^2 &= 32 + 1 = 33 \neq [34] \\ 33 + 2^2 &= 33 + 4 = 37 \\ 37 + 3^2 &= 37 + 9 = 46 \\ 46 + 4^2 &= 46 + 16 = 62 \\ 62 + 5^2 &= 62 + 25 = 87 \end{aligned}$$

(83)

(e) The pattern of the number series is:

$$\begin{aligned} 33 + 288 &= 321 \\ 321 + 144 &= 465 \\ 465 + 72 &= 537 \\ 537 + 36 &= 573 \\ 573 + 18 &= 591 \neq [590] \\ 591 + 9 &= 600 \end{aligned}$$

(84)

(a) The pattern of the number series is:

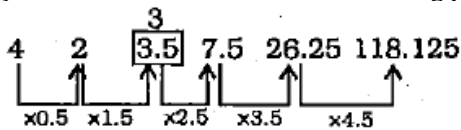
$$\begin{aligned} 37 + 1 \times 5 &= 42 \neq [47] \\ 42 + 2 \times 5 &= 52 \\ 52 + 3 \times 5 &= 67 \\ 67 + 4 \times 5 &= 87 \\ 87 + 5 \times 5 &= 112 \end{aligned}$$

(1)

$$112 + 6 \times 5 = 142$$

(85)

(3) The series is based on the following pattern:



Obviously 3.5 is the wrong number which should be replaced by 3.

(86)

(c) The series is based on following pattern:



Hence, 29 is the wrong number.

(87)

(b) The pattern is :

$$\begin{aligned} 4 \times 8 - 8 &= 32 - 8 = 24 \\ 24 \times 7 - 7 &= 168 - 7 = 161 \\ 161 \times 6 - 6 &= 966 - 6 \\ 960 &\neq [965] \\ 960 \times 5 - 5 &= 4800 - 5 = 4795 \end{aligned}$$

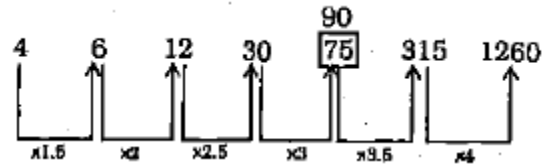
(88)

(c) The pattern of the given series is :

$$\begin{aligned} 4 \times 0.5 + 1 &= 2 + 1 = 3 \\ 3 \times 1 + 1.5 &= 3 + 1.5 = 4.5 \\ 4.5 \times 1 + 2 &= 6.75 + 2 \\ &= 8.75 \neq [8.5] \\ 8.75 \times 2 + 2.5 &= 17.5 + 2.5 = 20 \\ 20 \times 2.5 + 3 &= 50 + 3 = 53 \end{aligned}$$

(89)

(b) The series is based on following pattern:



Hence, the wrong number is 75.

(90)

(d) The pattern of the number series is:

$$\begin{aligned} (4444 / 2) + 2 &= 2224 \\ (2224 / 2) + 2 &= 1114 \\ (1114 / 2) + 2 &= 559 \neq [556] \\ (559 / 2) + 2 &= 2815 \end{aligned}$$

(91)

(b) The pattern is:

$$\begin{aligned} 5 \times 1 - 1 &= 5 - 1 = 4 \\ 4 \times 2 - 2 &= 8 - 2 = 6 \\ 6 \times 3 - 3 &= 18 - 3 = 15 \\ 15 \times 4 - 4 &= 60 - 4 = 56 \\ 56 \times 5 - 5 &= 280 - 5 = 275 \\ &\neq [285] \\ 275 \times 6 - 6 &= 1650 - 6 = 1644 \end{aligned}$$

(92)

(d) The series is based on following pattern:

$$\begin{aligned} 50 + 1^2 &= 51 \\ 51 - 2^2 &= 47 \\ 47 + 3^2 &= 56 \\ 56 - 4^2 &= 40 \text{ (not 42)} \\ 42 + 5^2 &= 65 \end{aligned}$$

Obviously, the number 42 is wrong and it should be replaced with 40.

(93)

(b) The pattern is:

$$\begin{aligned} 6 \times 0.5 + 1 &= 3 + 1 = 4 \\ 4 \times 1 + 1 &= 4 + 1 = 5 \\ 5 \times 1.5 + 1 &= 7.5 + 1 = 8.5 \\ 8.5 \times 2 + 1 &= 17 + 1 = 18 \\ 18 \times 2.5 + 1 &= 45 + 1 = 46 \\ &\neq [48] \\ 46 \times 3 + 1 &= 138 + 1 = 139 \end{aligned}$$

(94)

(c) The pattern of the number series is:

$$\begin{aligned} 6 \times 7 + 1 \times 7 &= 49 \\ 49 \times 6 + 2 \times 6 &= 306 \neq [305] \\ 306 \times 5 + 3 \times 5 &= 1545 \\ 1545 \times 4 + 4 \times 4 &= 6196 \\ 6196 \times 3 + 5 \times 3 &= 18603 \end{aligned}$$

(95)

(b) The pattern is :

$$\begin{aligned} 6 + 1 &= 7 \\ 7 + 1 \times 2 &= 9 \\ 9 + 2 \times 2 &= 13 \\ 13 + 8 &= 21 \neq [26] \\ 21 + 16 &= 37 \\ 37 + 32 &= 69 \end{aligned}$$

(96)



(d) The original series is based on following pattern:

$$\begin{aligned} 6 \times 1 + 1 \times 2 &= 8 \\ 8 \times 2 + 2 \times 3 &= 10 \\ 10 \times 3 + 3 \times 4 &= 42 \\ 42 \times 4 - 4 \times 5 &= 148 \\ 148 \times 5 + 5 \times 6 &= 770 \\ 770 \times 6 - 6 \times 7 &= 4578 \end{aligned}$$

Therefore, the number 146 is wrong. Hence, the new series is as follows:

$$\begin{aligned} 146 \times 1 + 1 \times 2 &= 148 \text{ ---- } 2^{\text{nd}} \text{ term} \\ 148 \times 2 - 2 \times 3 &= 290 \text{ ----- } 3^{\text{rd}} \text{ term} \\ 290 \times 3 + 3 \times 4 &= \mathbf{[882 \text{ ----- } 4^{\text{th}} \text{ term}]} \end{aligned}$$

Therefore, the fourth term of the new series is 882.

(97)

(d) The pattern is:

$$\begin{aligned} 18 + 2 &= 20 \neq \mathbf{[21]} \\ 20 + 5 (=2 + 3) &= 25 \\ 25 + 10 (=5 + 5) &= 35 \\ 35 + 17 (=10 + 7) &= 52 \\ 52 + 26 (=17 + 9) &= 78 \\ 78 + 37 (=26 + 1) &= 115 \end{aligned}$$

(98)

(1) The series is based on the following pattern:

$$\begin{aligned} 16 + 9 &= 7 & 25 &= 16 + 9 \\ 41 &= 16 = 25 \\ \therefore 68 &\neq 25 + 41 \end{aligned}$$

(99)

(c) The pattern of the number series is:

$$\begin{aligned} 7 + 1 \times 11 &= 7 + 11 = 18 \\ 18 + 3 \times 11 &= 18 + 33 = 51 \neq \mathbf{[40]} \\ 51 + 5 \times 11 &= 51 + 55 = 106 \\ 106 + 7 \times 11 &= 106 + 77 = 183 \\ 183 + 9 \times 11 &= 183 + 99 = 282 \end{aligned}$$

(100)

(a) The series is based on following pattern:



Hence the wrong number is 6.

(101)

(c) The original series is based on following pattern:

$$\begin{aligned} 8 \times (1/2) &= 4 \\ 4 \times 1 &= 4 \\ 4 \times 1.5 &= 6 \\ 6 \times 2 &= 12 \\ 12 \times 2.5 &= \mathbf{[30]} \\ 30 \times 3 &= 90 \end{aligned}$$

Therefore, the number 28 is wrong. Hence, the new series is as follows:

$$\begin{aligned} 28 \times (1/2) &= 14 \text{ } 2^{\text{nd}} \text{ term} \\ 14 \times 1 &= 14 \text{ ----- } 3^{\text{rd}} \text{ term} \\ 14 \times 1.5 &= 21 - 4^{\text{th}} \text{ term.} \\ 21 \times 2 &= 42 \end{aligned}$$

Therefore, the fourth term of new series is 21.

(102)

(c) The pattern is :

$$\begin{aligned} 8 + 1 \times 13 &= 21 \\ 21 + 2 \times 13 &= 21 + 26 = 47 \\ 47 + 3 \times 13 &= 47 + 39 = 86 \\ 86 + 4 \times 13 &= 86 + 52 = 138 \neq \mathbf{[140]} \\ 138 + 5 \times 13 &= 138 + 65 = 203 \\ 203 + 6 \times 13 &= 203 + 78 = 281 \end{aligned}$$

(103)

(c) The pattern of the number series is:

$$\begin{aligned} 8 \times 0.5 + 1 &= 5 \\ 5 \times 1 + 1.5 &= 6.5 \\ 6.5 \times 1.5 + 2 &= 9.75 + 2 = 11.75 \\ &\neq \mathbf{[11]} \\ 11.75 \times 2 + 2.5 &= 23.5 + 2.5 = 26 \\ 26 \times 2.5 + 3 &= 68 \end{aligned}$$

(104)

(e) The pattern is:

$$\begin{aligned} 9 + 1^3 &= 10 \\ 10 + 2^3 &= 10 + 8 = 18 \\ 18 + 3^3 &= 18 + 27 = 45 \\ 45 + 4^3 &= 45 + 64 = 109 \\ 109 + 5^3 &= 109 + 125 \\ &= 234 \neq \mathbf{[235]} \\ 234 + 6^3 &= 234 + 216 = 450 \end{aligned}$$

(105)

(e) The pattern is:

$$\begin{aligned} 9 + 1^3 &= 10 \\ 10 + 2^3 &= 10 + 8 = 18 \\ 18 + 3^3 &= 18 + 27 = 45 \\ 45 + 4^3 &= 45 + 64 = 109 \\ 109 + 5^3 &= 109 + 125 \\ &= 234 \neq \mathbf{[235]} \\ 234 + 6^3 &= 234 + 216 = 450 \end{aligned}$$

(106)

(e) The pattern is :

$$\begin{aligned} 950 - 661 &= 289 = 17^2 \\ 661 - 436 &= 225 = 15^2 \\ 436 - \mathbf{[269]} &= 167 \neq 13^2 \\ \therefore 436 - 267 &= 167 = 13^2 \\ 267 - 146 &= 121 = 11^2 \\ 146 - 65 &= 81 = 9^2 \end{aligned}$$

