

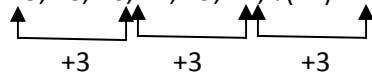
NUMBER SERIES -1

Explanation:

1. (b) +2, +4, +6, +8.....

2. (d) $1^3, 2^3, 3^3, 4^3, 5^3, 6^3, \dots$

3. (c) 13, 18, 16, 21, 19, 24, ?(22)



4. (d) -100, -90, -80, -70,.....

5. (a) 1, 3, 6, 8, 16, 18, 36, 38, ? (76)



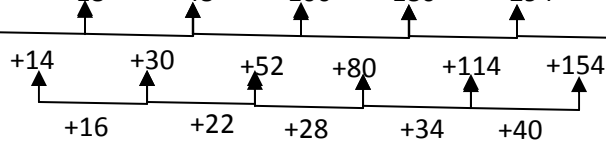
6. (b) +4, +4, +4, +4,

7. (c) Alternate step ascending and alternate step descending.

8. (a) From the right to left numbers are divided by 0.5, 1.5, 2.5, 3.5,

9. (c) $\times 5-4, \times 5+4, \times 5-4, \dots$

10. (d) 4, 18, 48, 100, 180, 294, ? (448)



11. (b) $\times 5, \times 5, \times 5, \dots$

12. (c) $8^3, 9^3, 10^3, \dots$

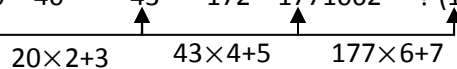
13. (e) $\times 1+1, \times 2+2, \times 3+3, \dots$ (9876)

14. (a) $\times 1.5, \times 1.5, \times 1.5, \dots$

15. (b) +0.25, +0.50, +0.75, +1, +1.25,.....

16. (e) +0, +3, +8, +15, +24, +35, (109)

17. (c) 20, 40, 43, 172, 177, 1062, ? (1069)



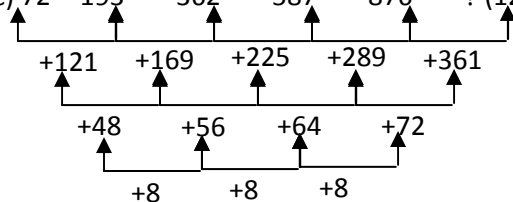
18. (e) $2^2, 4^2, 6^2, 8^2, \dots, 16^2$ (256)

19. (a)

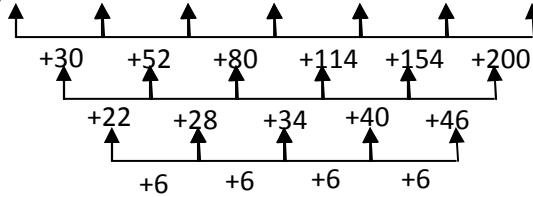
20. (c) -110, -220, -330, -440,.....

21. (d) $\div 2+3, \div 3+4, \div 4+5, \div 5+6, \dots$

22. (c) 72, 193, 362, 587, 876, ? (1237)



23. (a) $7^2, 6^3, 5^4, 4^5, 3^6, 2^7$
 24. (e) $\times 1+1, \times 2+2, \times 3+3, \dots (1045)$
 25. (d) 18 48 100 180 294 448 ? (648)



26. (b) $+222, +444, +666, +888, +1110$
 27. (b) $\div 4.5, \div 3.5, \div 2.5, \div 1.5, \div 0.5$
 28. (a) $\times 10-10, \times 10-10, \times 10-10, \dots$
 29. (e) $17^2, 19^2, 23^2, 29^2, 31^2, 37^2$
 30. (a) $+2^2, +3^2, +4^2, +5^2, \dots$
 31. (c) $\times 1.5, \times 2, \times 2.5, \times 3, \times 3.5, \dots$
 32. (d) $\times 4-1, \times 4-2, \times 4-3, \times 4-4, \dots$
 33. (a) $+214 \times 1, +214 \times 2, +214 \times 4, +214 \times 8$
 34. (e)
 35. (e) $+2^3, +3^3, +4^3, +5^3, +\dots (1500)$
 36. (b) First number \times second number = third number
 second number \times third number = fourth number [48]
 third number \times fourth number = fifth number
 37. (e) $\times 3, \times 5, \times 7, \times 9, \dots (5670)$
 38. (a) $+7^3, +6^3, +5^3, \dots$
 39. (d) $\times 2+1^2, \times 4+2^2, \times 6+3^2, \times 8+4^2$
 40. (a) $\div 5, \div 2.5, \div 5, \div 2.5, \dots$
 41. (b) $1^1, 2^2, 3^3, 4^4, 5^5, 6^6, \dots$
 42. (b) $+14, +28, +42, \dots$
 43. (b) $-120, -113, -106, -99, -92$ (Gap is 7)
 44. (e) $\div 2.5, \div 2.5, \div 2.5, \div 2.5, \dots (80)$
 45. (b) Alternate number in ascending and descending order respectively.
 46. (c) Alternate numbers are the series ascending prime numbers.
 47. (d) The gap of alternate number is 23.
 48. (b) Second number $\div 2 =$ fourth number
 fourth number $\div 4 =$ sixth number
 sixth number $\div 6 =$ eighth number
 Similarly, third number $\div 6 =$ fifth number and so on.
 49. (c) $+275, +285, +295, +305, +\dots$ (gap is +10)
 50. (c) First number \times second number = third number
 second number \times third number = fourth number
 third number \times fourth number = fifth number (15.625)

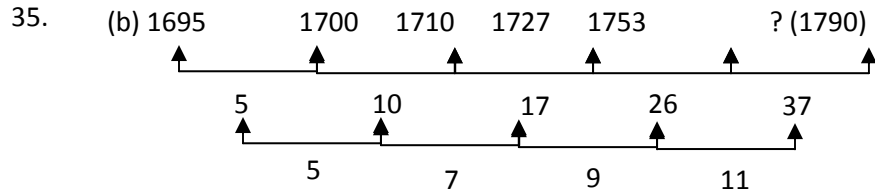
Odd one out

51. (c) +5, +7, +9, +11 (36 should be replaced with 34).
52. (a) $1^3, 3^3, 5^3, 7^3, 9^3, 11^3$ (1321 should be replaced with 1331).
53. (c) +10, +12, +14, +16 (591 should be replaced with 593).
54. (d) Every number with a power except 15.
55. (d) -592, -296, -148, -74, -37 (5313 should be replaced with 5333).
56. (a) $\times 1+1, \times 2+2$ and so on. (54 should be replaced with 57).
57. (d) Alternate numbers are increased with 10 from the second number. So 21 should be replaced with 26.
58. (b) First number, fourth number, eighth number are increased with 1. Similarly, second number, sixth number, tenth number are increased with 1. So, 8 should be replaced with 4.
59. (b) $\div 2.5, \div 2.5, \div 2.5, \div 2.5$. So, 5.25 should be replaced with 5.76.
60. (d) +50, +92, +126, +160, +192. So 72 should be replaced with 80.
61. (a) +15, +30, +45, +60 and so on. So 165 should be replaced with 168.
62. (d) -50, -40, -30, -20, -10 (350 should be replaced with 360).
63. (e) $+1^3, +2^3, +3^3, +4^3$ (No one is odd man out).
64. (b) -19, -17, -15, -13, -11. So 64 should be replaced with 63.
65. (a) $11^3, 12^3, 13^3$ and so on. So 1321 should be replaced with 1331.
66. (c) $\times 1+1, \times 2+1, \times 3+1$ and so on. So 56 should be replaced with 52.
67. (b) $\div 2.5, \div 2, \div 1.5, \div 1$ and so no. So 25 should be replaced with 20.
68. (c) $\times 1+1, \times 2+2, \times 3+3$ and so on. So 201 should be replaced with 208.
69. (a) +2, +3, +4, +5 and so on. So 7 should be replaced with 5.
70. (e) All are square of 1, 4, 9, 16, 25 and so on (No one is odd man out).
71. (d) $\times 1.5, \times 2, \times 2.5, \times 3, \times 3.5$ and so on. So 120 should be replaced with 90.
72. (a) 18, 8, 17, 9, 16, 10, 15, 11. So 14 is odd one.
73. (b) 0, +3, +8, +15, +24, +35 and so on. So 10 should be replaced with 11.
74. (e) None of these
75. (a) $\times 2, +2, \times 2$ and so on. So 910 is odd one.
76. (e) Correct series.
77. (a) $1 \times 2, 2 \times 2, 2 \times 4, 4 \times 8, 8 \times 32$ and so on. So 264 is odd one.
78. (c) $\times 10, \div 2, \times 10$ and so on. So 75 should be replaced with 100.
79. (a) +1, +2, +5+10, +17, +27. So 62 should be replaced with 61.
80. (a) $14=1^2 2^2, 916=3^2 4^2, 2536=5^2 6^2, 4964=7^2 8^2$. So 4960 should be replaced with 4964.
81. (b) $7 \times 8=56, 13 \times 15=195$. So 14 should be replaced with 13.
82. (d) $(39)^2, 39, (41)^2, 41, (43)^2, 43$. So 1749 should be replaced with 1849.
83. (d) -1728, -1000, -512, -216 and so on. So 5860 should be replaced.
84. (a) $1^3, 3^2, 5^3, 7^2, 9^3, 11^2, 13^3$. So 2147 should be replaced with 2197.
85. (a) $\div 4.5, \div 4, \div 3.5, \div 3, \div 2.5$ and so on. So 10400 should be replaced with 10500
86. (c) $\times 1+1, \times 2+2, \times 3+3$, and so on. So 380 should be replaced with 376.
87. (e) All correct.
88. (a) +23, +46, +69, +92, +115. So 1180 should be replaced with 1150.
89. (a) $\times 3, \times 5, \times 7$ and so on. So 24 should be replaced with 18.
90. (a) $\times 2+1^2, \times 4+2^2, \times 6+3^2$ and so on. So 120 should be replaced with 129.
91. (b) $\div 5, \div 2.5, \div 5, \div 2.5$ and so on. So 115.25 should be replaced with 114.24.
92. (a)
93. (d) +1, +27, +125 and so on. So 2120 should be replaced with 2123.

94. (c) $\times 9-7$, $\times 8-6$, $\times 7-5$, $\times 6-4$ and so on. So 18532 should be replaced with 18530.
95. (a) $\div 2.5$, $\div 2.5$ and so on. So 84.92 should be replaced with 81.92
96. ()
97. (d) 12, 19, 15, 17, 20, 15, 27, 14/**13**, 36, 11. So 14 should be replaced with 13.
98. (c) Here alternative odd place are difference of 2. So 21.5 on 7th place is odd one.
99. ()
100. (a) 2^3-2 , 3^3-2 , 4^3-2 and so on. So 28 should be replaced with 27.

SERIES -2

1. (b) +2, +3, +5, +7, +11 and so on.
2. (b) +2, +4, +6, +8, +10 and so on.
3. (a) $\times 1, \times 2, \times 3, \times 4, \times 5, \times 6$
4. (b) $\div 5, \div 4$ and so on.
5. (a) $\times 1, \times 3, \times 5, \times 7, \times 9$
6. (c) Here alternative odd place are in the series of +6, +8, +10 respectively.
7. (b) Alternative prime number.
8. (d) $2^2, 3^2, 5^2, 7^2, 11^2$ and so on.
9. (b) $8^2, 10^2, 12^2$ and so on.
10. (a) $\div 9, \div 7, \div 5, \div 3$
11. (d) +23, +25, 27, +29, +31
12. (a) +13, 19, +17, +23, +21
13. (b) $2^2+1, 3^2+1, 5^2+1, 7^2+1$ and so on.
14. (a) $\begin{array}{cccccc} 83 & 73 & 67 & 59 & 47 & ? (41) \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ -10 & -6 & -8 & -12 & -6 & -18 \end{array}$
15. (a) $\div 4, \div 3$ and so on.
16. (b)
$$\frac{\text{Alternate prime number numerator}}{\text{Alternate prime number denominator}}$$
17. (b) +7, +7, +7 and so on.
18. (a) +1, +8, +27, +64, +125
19. (c) $\begin{array}{cccccc} 154 & 173 & 196 & 225 & 256 & ? (293) \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +19 & +23 & +29 & +31 & +37 & \end{array}$
20. (b) +5, +3, +5, +3 and so on.
21. (d) $+1^2, +2^2, +3^2$ and so on.
22. (a) $\times 4+2, \times 4+2$ and so on.
23. (a) $3^2+3, 5^2+5, 7^2+7$ and so on.
24. (c) 2 3, 5 7, 11 13, 17 19, 23 29 (combining two prime number)
25. (c) Binary number 2=10, 4=100, 6=110, 8=1000, 10=1010, 12=1100
26. (a) +29,+23,+19, +17,+13
27. (a) +1, +2, +3, +4, +5, +6
28. (b) $+2^2, +3^2, +5^2, +7^2, +11^2$
29. (d) $2^3, 3^2, 4^3, 5^2, 6^3, 7^2, 8^3$
30. (a) $15+6= 21, 3+5=8, 12+9=21$
31. (d) $2 \times 5=10, 1 \times 3=3, 7 \times 4=28, 3 \times 5=15$
32. (b) $10 \times 11=110, 11 \times 12=132, 12 \times 13=156, 13 \times 14=182$
33. (c) $\div 2, \div 3, \div 5, \div 7, \div 11$
34. (e) $\div 5, \div 5$ and so on.



36. (b) $5^3, 7^3, 11^3, 13^3, 17^3$

37. (d) $2^3+2, 3^2+3, 5^3+5, 7^2+7, 11^3+11, 13^2+13$

38. (b) $5^2, 7^2, 11^2, 13^2, 17^2, 19^2$

39. (c) $3^6, 3^5, 3^4, 3^3, 3^2, 3^1$

40. (a) $\times 5, \times 4, \times 3, \times 2, \times 1$

41. (b) $3 \ 9=3 \ 3^2, 4 \ 16=4 \ 4^2$. Similarly, $8 \ 64=8 \ 8^2$

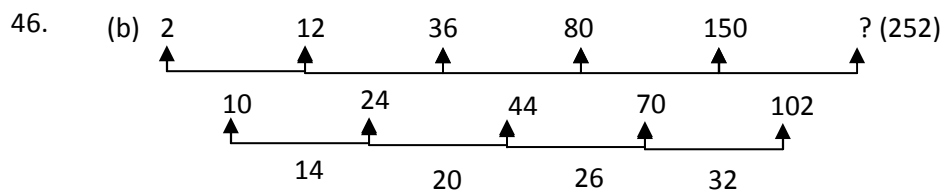
42. (d) $2 \ 8=2 \ 2^3, 3 \ 37=3 \ 3^3$. Similarly $11 \ 1331=11 \ 11^3$

43. (d) $(5, 30)=5 \times 6=30, (10, 110)=10 \times 11=110, (15, 240)=15 \times 16=240, (20, 420)=20 \times 21=420$.
Then $(25, 650)=25 \times 26=650$

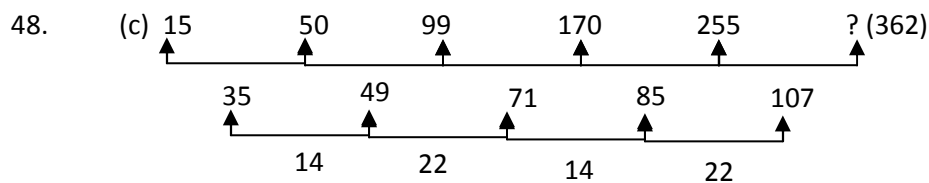
44. (a) Alternative series of odd place are +1, +3, +5, +7

45. (a) Binary series

$101=5, 110=6, 1000=8, 1011=11, 1111=15, 10100=20$



47. (d) $\times 2, \times 3, \times 4, \times 2, \times 3, \times 4$



49. (a) $13^2+13, 17^2+17, 19^2+19, 23^2+23, 29^2+29, 31^2+31$

50. (c) $\times 11, \times 7, \times 5, \times 3, \times 2$

51. (b) +45, +53, +61, +69, +77

52. (c) $\times 10, \times 8, \times 6, \times 4, \times 2$

53. (a) $\times 11, \times 9, \times 7, \times 5, \times 3, \times 1$

54. (b) $\times 2, +3, \times 5, +7, \times 11, +13$

55. (d) $\times 1+1, \times 2+2, \times 3+3$ and so on.

56. (a) $\times 2+2, \times 3+3$ and so on.
57. (d)
58. (d) $4^1, 4^2, 4^3, 4^4, 4^5$
59. (c) $\times 2, \times 3, \times 5, \times 7, \times 11$
60. (c) Here odd position series are $-8, -12, -18$
61. (d) $12+5=17, 5+17=22, 22+17=39, 39+22=61, 61+39=100$
62. (e) $+6, +3, +6, +3$ and so on
63. (d) $\div 6, \div 5, \div 4, \div 3, \div 2$
64. (d) $\times 2, \div 3, \times 2, \div 3$ and so on.
65. (c) $\div 2, \div 5, \div 2, \div 5$ and so on.
66. (d) $+1^3, +2^2, +3^3, +4^2$ and so on
67. (a) $2^3+1, 3^3+2, 4^3+3$ and so on
68. (a) $2^2+3, 3^2+3, 5^2+3$ and so on.
69. (b)
70. (b) $2^2+1, 3^3+1, 4^2+2, 5^3+1, 6^2+3, 7^3+1, 8^2+4$
71. (b) $2^2 \times 1, 4^2 \times 3, 6^2 \times 5, 8^2 \times 7$
72. (b) $2^3-2, 3^3-3, 5^3-5, 7^3-7, 11^3-11, 13^3-13$
73. (a) Series are in binary form of. 3, 5, 7, 11, 13, 17, 19
74. (e) Series are in binary form of. 4, 9, 25, 49, 121
75. (b) $10^3, 9^3-9, 9^3, 8^3-8, 8^3, 7^3-7$ and so on.
76. (c) There are three such type of series are 5,2,6 3,2,6 9,2,2
77. (a) 2 9 4 and 8 3 4
78. (a) 3 5, 5 2, 3 5
79. (b) 7 2 8, 7 2 4
80. (e) Nine
81. (a)
82. (b)
83. (d)
84. (a)
85. (b) Second to the right of M + fourth to the right of M = sixth to the right of M = S
86. (a) P
87. (c) U
88. (c) F
89. (b) F Second to the right of M + fifth to the right of M = F
90. (d) Eighth to the left of Z + Fourth to the right of Z = D
91. (b) B(2) C (3) E (5) H(8) Q (17).
92. (e) Position of letter are in series i.e., 5, 7, 10, 15, 22. Then 7 (33) G.
93. (b) Position of letter are in series i.e., 20, 22, 26, 6, 14, 22 (X).
94. (e) H G E B X S (Position value of all the letters are in a sequence after summation of double digit positions.
95. (a) A, E, I, O, U, A,

96. (a) U, I, A, O, E
97. (c) 2, 3, 5, 7, 11, 13, 17 (Q)
98. (d) 1, 4, 9, 16, 25(Y)
99. (b) 2, 3, 4,6,7,8,10,11 (K),12
100. (d) Z, Y, W, T, P, K
101. (d) AZ, EV, IR, OL, UF, AZ
102. (b)Here the first place of series of each word in alphabetical order and the second place of each word repeated with one gap.
103. (c) B Z (2 26), D X (4 24), G U (7 21),L P(12 16), S I (19 9), ? D X (4 24)
104. (a)First letter of each word are in the series in alphabetical order A B C D E and the second letter of each word are in the series of 1(A) 4(D) 9 (I) 16 (P) 25 (Y)
105. (a) Here the first letter of each word are in the series of vowel i.e, A, E, I, O, U and the second letter of each word are in the series of alphabetical order i.e., B, C, D, F, G, H
106. (b) Here the first letter of each word are in the series of prime number i.e, 2, 3, 5, 7, 11, 13 or B, C, E, G, K, M and second letter of each word are in the series of prime number in reverse order starting from 19, 17, 13, 11, 7, 5 or S, Q, M, K, G, E.
107. (d) OB, PC, RE, UH, YL, DQ
108. (d) Here the first letter of each word are in the series of prime number i.e, 2, 3, 5, 7, 11, 13 or B, C, E, G, K, M and second letter of each word are the opposite letter of respective first series.
109. (a)
110. (d) C (3), G (7), P (16), I (9), V (22), _____

Here $3 \times 2 + 1 = 7$ (G), $7 \times 2 + 2 = 16$ (P), $16 \times 2 + 3 = 35$ or position 9 (I), $9 \times 2 + 4 = 22$ (V), $22 \times 2 + 5 = 49$ or position 23 (W)

111. (d)
112. (b)
113. (b)
114. (a)
115. (d)
116. (c)
117. (a)
118. (c)
119. (c)
120. (d)
121. (a)
122. (b)
123. (a)
124. (a)
125. (a) Dadbdhammck_ Dad= $4 \times 1 = 4$, bdh= $2 \times 4 = 8$, amm= $1 \times 13 = 13$, ckg= $3 \times 11 = 33$ or 7 (g)
126. (b)
127. (c)

128. (b)
 129. (c)
 130. (d)
 131. (a) $A=1+0$, $B=1+1$, $D=2+2$, $G=3+4$, $K=9+2$, $P=8+8$
 132. (a) Here the middle letter of each word are in the series of J,L,N,P,R,T and third position of each word are in the series of 0,2,4,6,8,0
 133. (d) BC5, DE9, FG13, HI17, JK21
 134. (a) Here the last letter of each word are in the series of +6, +12, +24 i.e., U position is 21 is added with 24=45 which is the position is i.e., 19.
 135. (c) AB9, BC25, CD49, DE81, EF121

$A+B=1+2=3^2=9$, $B+C=2+3=5^2=25$ and so on.

136. (c) $0A1=0+1^2=1$, $2B2=2+2=2^2$, $4C5=4+5=3^2$, $8D8=8+8=4^2$, $16E9=16+9=5^2$
 137. (b) First letter of each word are in the series of ZYWTP, second position of each word are in the series of 4, 9, 16, 25, 36 and third position of each word are in the series of MNPSW
 138. (a) $B19Q=2+17=19$, $C16M=3+13=16$, $E16K=11+5=16$, $G14G=7+7=14$. Similarly, $K16E=11+5=16$
 139. (d) $AB2=1 \times 2=2$, $DE20=4 \times 5=20$. Similarly $MN182=13 \times 14=182$
 140. (b) Here the first position of each word are in the series of 2, 2,1,1, 0,0 and the middle position of each word are in the series of A, E, I, O, U and the last position of each word in the series of $\div 3$, $\times 4$, $\div 4$, $\times 3$
 141. (d) A1, E5, I9, O 15, U 21.
 142. (e) E5
 143. (c) Here the first position of each word are in the series of +1, +2, +3, +4, +5 and the second position of each word are in the series of -1, -2, -3, -4, -5.
 144. (e) MZYQ
 NABJ \rightarrow Opposite letter. Similarly, SFGO \rightarrow WZIQ
 145. (e) Alternative vowel + forward sequence.
 146. (e) JKMT \rightarrow LIPQ. Similarly, PEVK \rightarrow RCYH
 147. (b) YZLB \rightarrow WXJZ. Similarly UTHX \rightarrow SNFV
 148. (d) M13N14 \rightarrow O15L12. Similarly S19H08 \rightarrow U21F06
 149. (d) M14, N13, P11, Q10, R09, T07
 150. (c) AE0105 \rightarrow A(01) E(05). Similarly, OU1521 \rightarrow O(15)U(21)