

NUMBER SERIES

EXERCISE

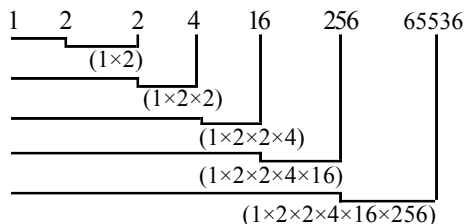
Directions : In the following questions, select the number(s) from the given options for completing the given series.

1. 7776, 1296, 216, 36, 6, ?
(a) 6 (b) 0
(c) 3 (d) 1
2. 29282, 2662, 242, 22, ?
(a) 1 (b) 2
(c) 0 (d) 11
3. 1, 2, 2, 4, 16, ?, 65536
(a) 276 (b) 64
(c) 256 (d) 198
4. 3, 5, 9, 15, 23, ?, 45
(a) 37 (b) 35
(c) 31 (d) 33
5. 7, 21, 35, 49, 63, ?
(a) 70 (b) 77
(c) 81 (d) 108
6. 10, 14, 23, 39, 64, ?, 149
(a) 78 (b) 128
(c) 103 (d) 100
7. 6, 24, 29, 116, 121, ?, 489
(a) 468 (b) 484
(c) 243 (d) 363

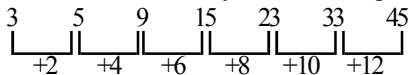
8. 5, 50, 45, 450, 445, ?, 4445
(a) 4450 (b) 4600
(c) 4550 (d) 4500
9. 6.25, 9, 12.25, 16, 20.25, 25, 30.25?
(a) 36 (b) 32
(c) 28.25 (d) 40.25
10. 243, 5, 81, 15, 27, 45, 9, ?
(a) 5 (b) 15
(c) 135 (d) 27
11. 2, 7, 14, 23, ?, 47
(a) 31 (b) 38
(c) 28 (d) 34
12. 0, 1, 8, 27, 64, ?
(a) 125 (b) 128
(c) 256 (d) 121
13. 37, 47, 58, ?, 79, 95
(a) 71 (b) 69
(c) 68 (d) 67
14. 4, -8, 14, -22, 32, ?
(a) -44 (b) 42
(c) -42 (d) 44
15. 6, 7, 9, 11, 15, 15, 24, 19, ?
(a) 32 (b) 34
(c) 36 (d) 37

EXPLANATORY ANSWERS

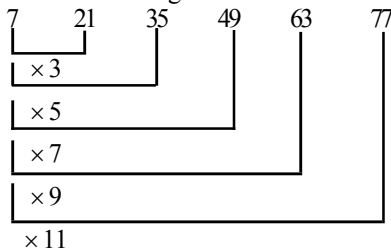
1. **(d)** : The numbers in this sequence are divided by 6 each time.
2. **(b)** : The numbers in the series are divided by 11 at each step.
3. **(c)** : The number in the series is product of all the numbers preceding it.



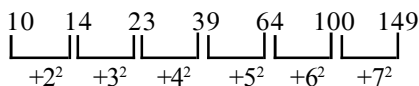
4. (d) : The difference between consecutive numbers increases by 2 at each step.



5. (b) : The series is multiplication of 7 by odd numbers starting from 3.



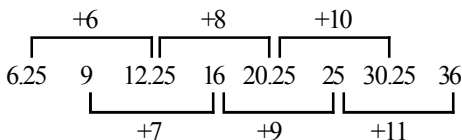
6. (d) : The number plus the square of numbers in natural order starting from 2 gives the next number in the series.



7. (b) : The sequence in the series is $\times 4$, $+5$, which is repeated.

8. (a) : The sequence in the series is $\times 10$, -5 , which is repeated.

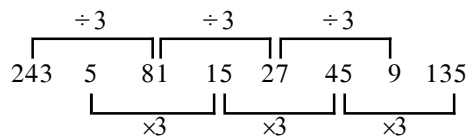
9. (a) : There are two alternate series :



Series I : 6.25, 12.25, 20.25, 30.25 (sequence is +6, +8, +10)

Series II : 9, 16, 25, 36 (sequence is +7, +9, +11)

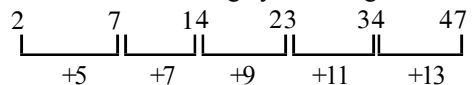
10. (c) : There are two alternate series :



Series I : 243, 81, 27, 9 (division by 3)

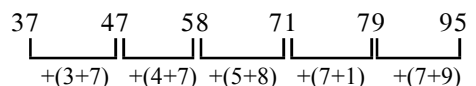
Series II : 5, 15, 45, 135 (multiplication by 3)

11. (d) : The difference between two consecutive numbers is increasing by 2 starting from 5.

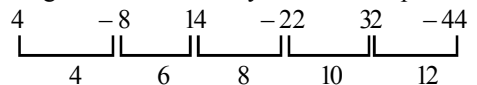


12. (a) : The numbers are cubes of numbers in natural order.

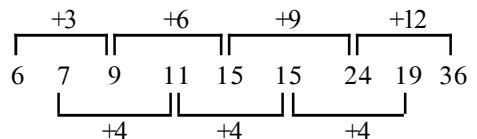
13. (a) : The sum of the digits of the number is added to the number to obtain the next number in the series.



14. (a) : Alternate numbers are marked positive and negative, but the difference between their magnitude increases by 2 at each step.



15. (c) : There are two alternate series :



Series I : 6, 9, 15, 24, 36 (sequence is +3, +6, +9, +12)

Series II : 7, 11, 15, 19 (addition of 4 at each step)