Logical reasoning

Number series

1. Look at this series: 8, 6, 9, 23, 87 , ... What number should come next?

A. 128 B. 226 C. 324 D. 429 Answer: Option D

Explanation:

8 x 1 - 2 = 6

6 x 2 - 3 = 9

9 x 3 - 4 = 23

23 x 4 - 5 = 87

87 x 5 - 6 = 429 ...

2. Look at this series: 2, 6, 18, 54, ... What number should come next?

A. 108 B. 148 C. 162 D. 216 Answer: Option C

This is a simple multiplication series. Each number is 3 times more than the previous number.

3. Look at this series: 3, 4, 7, 8, 11, 12, ... What number should come next?

A. 7 B. 10 C. 14 D. 15 Answer: Option D

This alternating addition series begins with 3; then 1 is added to give 4; then 3 is added to give 7; then 1 is added, and so on.

4. Look at this series: 201, 202, 204, 207, ... What number should come next?

A. 205 B. 208 C. 210 D. 211 Answer: Option D

In this addition series, 1 is added to the first number; 2 is added to the second number; 3 is added to the third number; 4 is added to the fourth number; and go on.

5. Look at this series: 14, 28, 20, 40, 32, 64, ... What number should come next?

A. 52 B. 56 C. 96 D. 128 Answer: Option B

This is an alternating multiplication and subtracting series: First, multiply by 2 and then subtract 8.

6. 28 25 5 21 18 5 14

A. 11 5 B. 10 7 C. 11 8 D. 5 10 E. 10 5 Answer: Option A

This is an alternating subtraction series with the interpolation of a random number, 5, as every third number. In the subtraction series, 3 is subtracted, then 4, then 3, and so on.

7. 2 3 4 5 6 4 8

A. 9 10 B. 4 8 C. 10 4 D. 9 4 E. 8 9 Answer: Option D

This is an alternating addition series with a random number, 4, interpolated as every third number. In the main series, 1 is added, then 2 is added, then 1, then 2, and so on.

8. 17 17 34 20 20 31 23

A. 26 23 B. 34 20 C. 23 33 D. 27 28 E. 23 28 Answer: Option E

This is an alternating subtraction series with repetition. There are two different patterns here. In the first, a number repeats itself; then 3 is added to that number to arrive at the next number, which also repeats. This gives the series 17, 17, 20, 20, 23, and so on. Every third number follows a second pattern, in which 3 is subtracted from each number to arrive at the next: 34, 31, 28.

9. 61 57 50 61 43 36 61

A. 29 61 B. 27 20 C. 31 61 D. 22 15 E. 29 22 Answer: Option E

This is an alternating repetition series, in which a random number, 61, is interpolated as every third number into an otherwise simple subtraction series. Starting with the second number, 57, each number (except 61) is 7 less than the previous number.

10. 42 40 38 35 33 31 28

A. 25 22 B. 26 23 C. 26 24 D. 25 23 E. 26 22 Answer: Option C

This is an alternating subtraction series in which 2 is subtracted twice, then 3 is subtracted once, then 2 is subtracted twice, and so on.

11. 16 26 56 36 46 68 56

A. 80 66 B. 64 82 C. 66 80 D. 78 68 E. 66 82 Answer: Option C

Here, every third number follows a different pattern from the main series. In the main series, beginning with 16, 10 is added to each number to arrive at the next. In the alternating series, beginning with 56, 12 is added to each number to arrive at the next.

12. Look at this series: F2, __, D8, C16, B32, ... What number should fill the blank?

A. A16 B. G4 C. E4 D. E3 Answer: Option C

The letters decrease by 1; the numbers are multiplied by 2.

13. Look at this series: V, VIII, XI, XIV, __, XX, ... What number should fill the blank?

A. IX B. XXIII C. XV D. XVII Answer: Option D

This is a simple addition series; each number is 3 more than the previous number.

14. Look at this series: 70, 71, 76, __, 81, 86, 70, 91, ... What number should fill the blank?

A. 70 B. 71 C. 80 D. 96 Answer: Option A

In this series, 5 is added to the previous number; the number 70 is inserted as every third number.

15. Look at this series: VI, 10, V, 11, __, 12, III, ... What number should fill the blank?

A. II B. IV C. IX D. 14 Answer: Option B

This is an alternating addition and subtraction series. Roman numbers alternate with Arabic numbers. In the Roman numeral pattern, each number decreases by 1. In the Arabic numeral pattern, each number increases by 1.

16. Look at this series: J14, L16, __, P20, R22, ... What number should fill the blank?

A. S24 B. N18 C. M18 D. T24 Answer: Option B

In this series, the letters progress by 2, and the numbers increase by 2.

17. Look at this series: XXIV, XX, __, XII, VIII, ... What number should fill the blank?

A. XXII B. XIII C. XVI D. IV Answer: Option C

This is a simple subtraction series; each number is 4 less than the previous number.

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ከ9-12 ላላችሁ ተማሪዎች

እንደሚታወቀው ከ2015 ዓ.ም ጀምሮ የዩኒቨርስቲ መግቢያ ፈተና ከ9ኛ-12ኛ ክፍል ያለውን የሚያጠቃልል ነው። ይህም ተማሪዎች ላይ ጫና መፍጠሩ የማይቀር ነው። እኛም ከ2015 ዓ.ም የት/ት ዘመን ጀምሮ በነፃ Mathematics ትምህርትን ከ9ኛ-12ኛ ክፍል ላላችሁ ተማሪዎች Example & Exercise Solution ጨምሮ ቀለል ባለ እና በሚገባችሁ መንገድ ለየት ያሉ YouTube video እያዘጋጀን የምናግዛችሁ መሆኑን ስናሳውቃችሁ በታላቅ አክብሮት ነው።
ከእናንተ የሚጠበቀው በትኩረት መከታተል ብቻ ነው።

Computation የበዛበት ጊዜ ላይ ስላለን ታሪክ ለመቀየር ለስኬት ዛሬ ጀምራችሁ ተነሱ

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Mathematics ይከብዳል ማለት እና አስጠኚ መፈለግ ቀረ

Thank You

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