

Practice Questions

Number Series



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1. What will come at the place of question mark ?
6, 11, 21, 36, 56, ?

A. ☐ 91

B. ☐ 51

C. ☐ 81

D. ☐ 42



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Answer & Solution

Answer: Option C

Solution:

$6 (+5) \rightarrow 11 (+10) \rightarrow 21 (+15) \rightarrow 36 (+20) \rightarrow 56 (+25) \rightarrow 81.$



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2. 7, 9, 66, 12, 14, 66, 17, ... choose which pair of numbers comes next?

A. ☐ 19, 66

B. ☐ 66, 19

C. ☐ 19, 22

D. ☐ 20, 66

E. ☐ 66, 20



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Answer & Solution

Answer: Option A

Solution:

This is an alternating addition series with repetition, in which a random number, 66, is interpolated as every third number. The regular series adds 2, then 3, then 2, and so on, with 66 repeated after each "add 2" step.



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3. 2, 44, 4, 41, 6, 38, 8, ... choose which pair of numbers comes next?

A. ☐ 10, 12

B. ☐ 35, 32

C. ☐ 34, 9

D. ☐ 35, 10



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Answer & Solution

Answer: Option D

Solution:

Here, there are two alternating patterns, one addition and one subtraction. The first starts with 2 and increases by 2; the second starts with 44 and decreases by 3.



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4. F2, __, D8, C16, B32 What number should fill the blank?

A. ☐ A16

B. ☐ G4

C. ☐ E4

D. ☐ E3



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Answer & Solution

Answer: Option C

Solution:

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



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5. V, VIII, XI, XIV, __, XX. What number should fill the blank?

A. ☐ IX

B. ☐ XXIII

C. ☐ XV

D. ☐ XVII



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Answer & Solution

Answer: Option D

Solution:

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



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6. $(1/9)$, $(1/3)$, 1, _____, 9. What number should fill the blank?

A. ☐ $(2/3)$

B. ☐ 3

C. ☐ 6

D. ☐ 27



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Answer & Solution

Answer: Option B

Solution:

This is a multiplication series; each number is 3 times the previous number.



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7. 4, 7, 25, 10, __, 20, 16, 19. What number should fill the blank?

A. ☐ 13

B. ☐ 15

C. ☐ 20

D. ☐ 28



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Answer & Solution

Answer: Option A

Solution:

Two series alternate here, with every third number following a different pattern. In the main series, 3 is added to each number to arrive at the next. In the alternating series, 5 is subtracted from each number to arrive at the next.



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8. U32, V29, __, X23, Y20. What number should fill the blank?

A. ☐ W26

B. ☐ W17

C. ☐ Z17

D. ☐ Z26



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Answer & Solution

Answer: Option A

Solution:

In this series, the letters progress by 1; the numbers decrease by 3.



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9. Find the missing term: 4, 10, ?, 82, 244, 730

A. ☐ 24

B. ☐ 28

C. ☐ 77

D. ☐ 218



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Answer & Solution

Answer: Option B

Solution:

Each number in the series is 2 less than thrice the preceding number.

So, missing number = $(10 \times 3) - 2 = 28$



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10. Find the missing term: 8, 28, 116, 584, ?

A. ☐ 1752

B. ☐ 3502

C. ☐ 3504

D. ☐ 3508



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Answer & Solution

Answer: Option D

Solution:

The pattern is x^3+4 , x^4+4 , x^5+4 ,.....

So, missing term = $584x^6+4=3508$



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11. Find the missing term: 2, 7, 27, 107, 427, ?

A. ☐ 1262

B. ☐ 1707

C. ☐ 4027

D. ☐ 4207



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Answer & Solution

Answer: Option B

Solution:

The pattern is +5, +20, +80, +320

i.e. $+(5 \times 1^2)$, $+(5 \times 2^2)$, $+(5 \times 4^2)$, $+(5 \times 8^2)$

So, missing term = $427 + (5 \times 16^2) = 427 + 1280 = 1707$



12. Find the missing term: 2, 2, 5, 13, 28, ?

A. ☐ 49

B. ☐ 50

C. ☐ 51

D. ☐ 52



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Answer & Solution

Answer: Option D

Solution:

The pattern is $+ 0, + 3, + 8, + 15, \dots$ i.e., $+ (1^2 - 1), + (2^2 - 1), + (3^2 - 1), + (4^2 - 1), \dots$

So, the missing term $= 28 + (5^2 - 1) = 28 + 24 = 52$



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13. Find the missing term: 125, 80, 45, 20, ?

A. ☐ 5

B. ☐ 8

C. ☐ 10

D. ☐ 12



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Answer & Solution

Answer: Option A

Solution:

The pattern is - 45, - 35, - 25,.....

So, missing term = $20 - 15 = 5$



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14. Find the missing number:- 2, 15, 41, 80, ?

A. ☐ 111

B. ☐ 120

C. ☐ 121

D. ☐ 132



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Answer & Solution

Answer: Option D

Solution:

The pattern is + 13, + 26, + 39,.....

So, missing term = $80 + 52 = 132$



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15. Find the missing term: 325, 259, 204, 160, 127, 105, ?

A. ☐ 94

B. ☐ 96

C. ☐ 98

D. ☐ 100



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Answer & Solution

Answer: Option A

Solution:

The pattern is - 66, - 55, - 44, -33, - 22,.....

So, missing term = $105 - 11 = 94$