



Number Series Questions for RRB NTPC Set-2 PDF

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Instructions

For the following questions answer them individually

Question 1

Find the next number in the series:

12, 36, 108, 324, 972, __

A 2712

B 2916

C 3016

D 3200

Answer: B

Explanation:

The differences between consecutive terms are 24, 72, 216, 648. Hence, the differences are increasing in an exponential manner. Thus, the series must be a Geometric Progression. $a=12$ and $r=36/12 = 3$.

Thus, the terms of the series are 12, 12×3 , 12×3^2 , 12×3^3 , 12×3^4 . Thus, the next term of the series = $972 \times 3 = 2916$.

Question 2

Find the missing number in the series:

4, 5, 9, ?, 23, 37, 60, 97

A 11

B 13

C 19

D 14

Answer: D

Explanation:

The differences between consecutive terms are 1, 4 and 14, 23 and 37. We see that terms of the series are appearing in the list of differences. Hence, the series is formed by adding previous terms of the series. i.e. $4+5=9$, $5+9=14$, $9+14=23$, $14+23=37$, $23+37=60$ and $37+60=97$.

Hence, the missing number is 14.

Question 3

Find the next number in the series:

5, 16, 27, 38, 49, 60, __

A 70

B 71

C 85

D 82

Answer: B

Explanation:

The differences between consecutive terms is $16-5=11$, $27-16=11$, $38-27=11$, $49-38=11$ and $60-49=11$. Hence, the difference is a constant. Thus, the series is an Arithmetic Progression.

The next number in the series would be $60+11=71$.

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Question 4

What comes next in the given series: 2, 3, 5, 7, 11, 13, 17

- A 20
- B 19
- C 21
- D 22

Answer: B

Explanation:

The given series is the list of prime numbers. The next prime number after 17 is 19.

Question 5

What comes next in the given series: 3, 8, 15, 24, 35, 48,

- A 63
- B 80
- C 56
- D 60

Answer: A

Explanation:

The given series is of the form $n(n+2) = 1*3, 2*4, 3*5, 4*6$ and so on.
The next term would be $7*9 = 63$

Question 6

What comes next in the given series: 3, 8, 15, 24, 35, 48, 63, 80

- A 90
- B 91
- C 99
- D 97

Answer: C

Explanation:

The given terms are of the format $n^2 - 1$.

$$3 = 2^2 - 1$$

$$8 = 3^2 - 1$$

$$15 = 4^2 - 1$$

$$24 = 5^2 - 1$$

$$35 = 6^2 - 1$$

and so on

The next term would be $10^2 - 1 = 99$

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Question 7

What comes next in the given series: 1, 2, 4, 7, 11, 16, 22, 29, 37, 46,

- A 55
- B 56
- C 52
- D 59

Answer: B

Explanation:

The difference of two consecutive terms are in AP.

$2-1 = 1$, $4-2 = 2$, $7-4 = 3$, $11-7 = 4$, $16-11 = 5$, $22-16 = 6$, $29-22 = 7$, $37-29 = 8$, $46-37 = 9$

$x-46 = 10$

$x = 56$

Question 8

Complete the following series: 11, 15, 20, 26, 33, ?

- A 45
- B 43
- C 41
- D 40

Answer: C

Explanation:

$11+4 = 15$; $15+5 = 20$; $20+6 = 26$; $26+7 = 33$; $33+8 = 41$

Question 9

Complete the following series: 10, 17, 25, 34, 44, ?

- A 54
- B 55
- C 64
- D 61

Answer: B

Explanation:

$10+7 = 17$; $17+8 = 25$; $25+9 = 34$; $34+10 = 44$; $44+11 = 55$

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Question 10

Find the missing term in the series:

981, 1089, 1225, 1369, ?

- A 1461
- B 1521
- C 1681
- D 1491

Answer: B

Explanation:

$$981 = 31^2$$

$$1089 = 33^2$$

$$1225 = 35^2$$

$$1369 = 37^2$$

$$1521 = 39^2$$

Question 11

Find the missing term in the series:

3, 7, 13, 21, ?

- A 31
- B 30
- C 29
- D 28

Answer: A

Explanation:

$$7 - 3 = 4$$

$$13 - 7 = 6$$

$$21 - 13 = 8$$

$$x - 21 = 10$$

$$\Rightarrow x = 31$$

Question 12

Complete the following series:

19, 79, 319, 1279, ?

- A 5009
- B 5109
- C 5111
- D 5119

Answer: D

Explanation:

$$19 \times 4 + 3 = 79 ; 79 \times 4 + 3 = 319 ; 319 \times 4 + 4 = 1279 ; 1279 \times 4 + 3 = 5119$$

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Question 13

Complete the following series:

5, 11, 8, 13, 11, ?

- A 15
- B 5
- C 10
- D 8

Answer: A

Explanation:

First, third and 5th letter are forming an A.P. with the common difference of 3
Second, third and sixth letter are also forming an A.P. with the common difference of 2
Hence, answer will be "a"

Question 14

Complete the following series:

50, 255, 1280, 6405, ?

- A 30100
- B 24590
- C 30300
- D 32030

Answer: D

Explanation:

$9 \times 5 + 5 = 50$; $50 \times 5 + 5 = 255$; $255 \times 5 + 5 = 1280$; $1280 \times 5 + 5 = 6405$, $6405 \times 5 + 5 = 32030$

Question 15

Complete the following series:

11, 18, 28, 41, 57, ?

- A 76
- B 74
- C 86
- D 84

Answer: A

Explanation:

$11 + 7 = 18$; $18 + 10 = 28$; $28 + 13 = 41$; $41 + 16 = 57$, $57 + 19 = 76$

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