



RRB NTPC Number Series Questions PDF

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Instructions

For the following questions answer them individually

Question 1

Choose the incorrect number in the series:

31, 37, 41, 43, 47, 51, 53

A 53

B 51

C 47

D 43

Answer: B

Explanation:

The series lists all the prime numbers from 31 in ascending order.

51 is not a prime number. It is divisible by 17. Therefore, 51 is the incorrect term in the series.

Question 2

A series is given with one missing term. Choose the correct alternative from the given options that will complete the series.

17, 42, 78, 127, 191, ?

A 272

B 268

C 275

D 271

Answer: A

Explanation:

$$17 + 25 = 42$$

$$42 + 36 = 78$$

$$78 + 49 = 127$$

$$127 + 64 = 191$$

$$191 + 81 = 272$$

Hence, option A is the right answer.

Question 3

Find the number which should replace '?'.
320, 480, 720, 1080, ?

A 1121

B 1728

C 1620

D 1628

Answer: C

Explanation:

The series follows the following pattern:

320

$320 * 1.5 = 480$

$480 * 1.5 = 720$

$720 * 1.5 = 1080$

$1080 * 1.5 = 1620$

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Question 4

Choose the incorrect number in the series:

12, 13, 28, 87, 350, 1765

A 28

B 87

C 350

D 1765

Answer: C

Explanation:

$12 * 1 + 1 = 12 + 1 = 13$

$13 * 2 + 2 = 26 + 2 = 28$

$28 * 3 + 3 = 84 + 3 = 87$

$87 * 4 + 4 = 348 + 4 = 352$

$352 * 5 + 5 = 1760 + 5 = 1765$

As we can see, 350 is the incorrect term in the series. Therefore, option C is the right answer.

Question 5

Choose the incorrect number in the given series:

1, 3, 6, 10, 15, 22

A 22

B 15

C 10

D 6

Answer: A

Explanation:

The given numbers are of the form $n(n+1)/2$.

$$1*2/2 = 1*1 = 1$$

$$2*3/2 = 1*3 = 3$$

$$3*4/2 = 3*2 = 6$$

$$4*5/2 = 2*5 = 10$$

$$5*6/2 = 5*3 = 15$$

$$6*7/2 = 3*7 = 21$$

As we can see, 22 is the incorrect term. Therefore, option A is the right answer.

Question 6

Find the incorrect number in the following series:

12, 17, 25, 36, 50, 68

A 25

B 36

C 50

D 68

Answer: D

Explanation:

$$17 - 12 = 5$$

$$25 - 17 = 8$$

$$36 - 25 = 11$$

$$50 - 36 = 14$$

As we can see, the difference between 2 consecutive numbers in the series are in an AP.

The next term must be $50 + 17 = 67$.

Therefore, 68 is the incorrect term in the series and hence, option D is the right answer.

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Question 7

Find the incorrect term in the sequence below -

84, 72, 61, 52, 42, 34

A 61

B 52

C 34

D 84

Answer: B

Explanation:

$$84 - 12 = 72$$

$$72 - 11 = 61$$

$$61 - 10 = 51$$

$$51 - 9 = 42$$

$$42 - 8 = 34$$

Hence, option B is the right answer.

Question 8

Find the number which will replace '?'.
31, 71, 91, 32, 92, ?

A 13

B 39

C 101

D 73

Answer: A

Explanation:

All the prime numbers from 13 are written in reverse order.

i.e 13, 17, 19, 23, 29, 31,...

are written as 31, 71, 91, 32, 92, 13

Question 9

A series is given with one missing term. Choose the correct alternative from the given options that will complete the series.

784, 685, 590, 499, 412, ?

A 317

B 345

C 329

D 351

Answer: C

Explanation:

$$784 - 99 = 685$$

$$685 - 99 + 4 = 590$$

$$590 - 99 + 8 = 499$$

$$499 - 99 + 12 = 412$$

$$412 - 99 + 16 = 329$$

Hence, option C is the right answer.

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Question 10

Find the number which would replace the question mark in the series given below.

13, 17, 25, 32, 37, ?

A 47

B 43

C 45

D 44

Answer: A

Explanation:

The pattern being followed here is that the sum of the digits of the previous number is being added to get the next number. For example:

$$13 + 1 + 3 = 17$$

$$17 + 1 + 7 = 25$$

$$25 + 2 + 5 = 32$$

$$32 + 3 + 2 = 37$$

Following the same pattern, the next term of the sequence will be

$$37 + 3 + 7 = 47$$

Hence, option A is correct.

Question 11

Find the next number in the series.

22, 29, 43, 64, ?

A 86

B 85

C 87

D 92

Answer: D

Explanation:

The series follows the following pattern:

$$22 + 7 = 29$$

$$29 + 14 = 43$$

$$43 + 21 = 65$$

$$64 + 28 = 92$$

Question 12

Find the missing number 23,26,32,41,53,68,??

A 81

B 84

C 76

D 86

Answer: D

Explanation:

The numbers given above are part of a pattern given below.

$$26 = 23 + 3$$

$$32 = 26 + 6$$

$$41 = 32 + 9$$

$$53 = 41 + 12$$

$$68 = 53 + 15$$

Hence, the number to follow will be $68 + 18 = 86$

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Question 13

13,17,30,47,77,124,??

A 191

B 201

C 189

D 213

Answer: B

Explanation:

The numbers given in the series above follow the below pattern

$$30 = 17 + 13$$

$$47 = 30 + 17$$

$$77 = 47 + 30$$

$$124 = 77 + 47$$

Therefore, the number to replace the question mark is $124 + 77 = 201$

Question 14

What number comes in the place of the question mark?

0	20	16
7	4	4
?	5	4

A 0

B -1

C 1

D 2

Answer: A

Explanation:

In the right column, $16 = 4 * 4$

In the middle column, $20 = 4 * 5$

In the left column, $0 = 7 * ?$

So, $? = 0$

Question 15

a, b and c are in Geometric progression such that $c - a = 12$ and $b + c = 24$. What is the value of $(b+1)(b-1)$?

A 80

B 63

C 48

D 35

Answer: B

Explanation:

Let the common ratio be r

So, $b = ar$

And $c = ar^2$

So, $ar^2 - a = 12$

$a(r+1)(r-1) = 12$ (1)

$ar + ar^2 = 24$

$ar(1+r) = 24$ (2)

$(2) / (1) \Rightarrow r/(r-1) = 2$

$r = 2r - 2$

$r = 2$

From (2), $a * 2 * (2+1) = 24$.

So, $a = 4$

$(b+1)(b-1) = (ar+1)(ar-1) = (4*2 + 1)(4*2-1) = 63$

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Question 16

What number comes in the place of the question mark?

0	20	16
7	4	4
?	5	4

A 0

B -1

C 1

D 2

Answer: A

Explanation:

In the right column, $16 = 4 * 4$

In the middle column, $20 = 4 * 5$

In the left column, $0 = 7 * ?$

So, $? = 0$

Question 17

What number comes in the place of the question mark?

4	12	3
2	14	7
2	6	?

A 1

B 3

C 4

D 5

Answer: B

Explanation:

In the first row, $4 * 3 = 12$

In the second row, $2 * 7 = 14$

In the third row, $2 * ? = 6$.

So, $? = 3$

Question 18

Which of the following is a prime number?

A 87

B 91

C 93

D 97

Answer: D

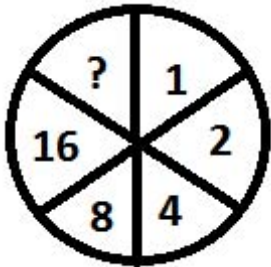
Explanation:

87 and 93 are divisible by 3. 91 is divisible by 7. Only 97 is a prime number.

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Question 19

What will come in the following question in place of the question mark ?



A 32

B 18

C 22

D 28

Answer: A

Explanation:

the sequence is $1, 1 \times 2 = 2, 4 \times 2 = 8, 8 \times 2 = 16$ so the next in sequence is $16 \times 2 = 32$

Question 20

Find the next term in the series: 81, 121, 169, 225, 289, ?

A 441

B 361

C 391

D 484

Answer: B

Explanation:

The terms in the series are $9^2, 11^2, 13^2, 15^2$ and so on. So, the next term in the series is $19^2 = 361$

Question 21

What is the sum to 30 terms of the series: 6, 12, 18, 24, ... ?

- A 2800
- B 2780
- C 2690
- D 2790

Answer: D

Explanation:

The terms of the series are in Arithmetic progression. So, the sum to n terms is given by $S = (n/2) * [2a + (n-1)d]$

So, the sum in this case is $S = (30/2) * [2*6 + 29*6] = 15 * [12 + 174] = 15 * 186 = 2790$

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Question 22

Find the next term in the series: 12, 18, 26, 36, 48, 62, ?

- A 80
- B 74
- C 76
- D 78

Answer: D

Explanation:

The difference between successive terms is 6, 8, 10, 12, 14 and so on.

So, the next term is $62 + 16 = 78$

Question 23

Which number comes next in the following series: 5, 15, 35, 65, 105, 155, ?

- A 195
- B 215
- C 225
- D 235

Answer: B

Explanation:

The difference between the first two numbers is 10. The difference between the second and third numbers is 20 and so on. So, the next number in the series will be $155 + 60 = 215$

Question 24

Find the wrong number in the given series

132, 90, 48, 30, 12, 2

A 132

B 48

C 30

D 2

Answer: B

Explanation:

The numbers can be written as 12×11 , 10×9 , 48, 6×5 , 4×3 , 2×1 . Hence, $8 \times 7 = 56$ should have been in the series instead of 48.

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Question 25

Find the next number in the series:

3, 15, 35, 63, 99, ____

A 123

B 137

C 143

D 159

Answer: C

Explanation:

Each term is $(2n)^2 - 1$. Hence, the 6th term = $(2 \times 6)^2 - 1 = 144 - 1 = 143$.

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