



## Number Series Questions for SSC JE PDF

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**Instructions**

In the following five questions, select the missing number from the given responses.

**Question 1**

3	2
4	24

2	-1
-2	4

6	5
0	?

- A 1
- B 30
- C 11
- D 0

**Answer:** D

**Explanation:**

3	2
4	24

2	-1
-2	4

6	5
0	?

let the missing term be y

here in 1st figure , the pattern is  $(3 \times 2 \times 4) = 24$

in 2nd figure ,  $(2 \times -1 \times -2) = 4$

in 3rd figure also the same thing will be followed ,

$$y = (6 \times 5 \times 0) = 0$$

**Instructions**

In the following questions, select the missing number from the given responses.

**Question 2**

18      21      24

3      9      3

$\frac{6}{21}$        $\frac{4}{26}$        $\frac{8}{?}$

- A 24
- B 27
- C 29
- D 22

**Answer:** C

**Explanation:**

The pattern followed is : Sum of first row and the positive difference between second and third rows.

$$\Rightarrow 18 + (6-3) = 21 \text{ and } 21 + (9-4) = 26$$

$$\text{Similarly, } 24 + (8-3) = 24 + 5 = \mathbf{29}$$

$\Rightarrow$  Ans - (C)

### Instructions

In each of the following questions, select the related word/letters/numbers from the given alternatives.

#### Question 3

$$\frac{1}{8} : \frac{1}{64} :: \frac{1}{16} : ?$$

- A 128
- B 126
- C 144
- D 132

Answer: A

#### Explanation:

$$\frac{1}{8} : \frac{1}{64} = 8$$

let the missing number be y

$$\frac{1}{16} : y = 8$$

$$y = 128$$

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### Instructions

In each of the following questions, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

#### Question 4

Find out the wrong number in the sequence

102, 101, 98, 93, 86, 74, 66, 53

- A 101
- B 66
- C 74
- D 93

Answer: C

#### Explanation:

here the given pattern is 102, 101, 98, 93, 86, 74, 66, 53

as we can see that

$$102 - 101 = 1$$

$$101 - 98 = 3$$

$$98 - 93 = 5$$

$$93 - 86 = 7$$

as we can see that the difference between consecutive terms is increasing by 2 in every case but when we check

$86 - 74 = 12$  we see that the pattern is not getting fulfilled in case of 74 so in order to make the same pattern the term should be 77 in spite of 74.

lets check with 77

$$86 - 77 = 9$$

hence it is confirmed that the wrong number is 74

### Instructions

For the following questions answer them individually

### Question 5

40% of 1620 + 30% of 960 = ? % of 5200

A 12

B 24

C 16

D 18

Answer: D

### Explanation:

$$40\% \text{ of } 1620 = \frac{40 \times 1620}{100} = 648$$

$$30\% \text{ of } 960 = \frac{30 \times 960}{100} = 288$$

$$648 + 288 = 936$$

Let the unknown percentage be  $x$ .

$$936 = x\% \text{ of } 5200$$

$$x = \frac{936 \times 100}{5200} = 18$$

Hence option D is the correct answer.

### Question 6

What will come in place of the question mark (?) in the series?

3, 8, 27, 112, (?), 3396

A 565

B 452

C 560

D 678

Answer: A

### Explanation:

Let the missing term be  $y$

here the sequence is 3, 8, 27, 112,  $y$ , 3396

here the pattern is :

$$8 = 3 \times 2 + 2$$

$$27 = 8 \times 3 + 3$$

$$112 = 27 \times 4 + 4$$

so from the highlighted pattern, we can say that

$$y = 112 \times 5 + 5 = 565$$

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### Question 7

Find out the set of numbers amongst the four sets of numbers given in the alternatives which is most like the set given in the question.

Given Set : (8, 56, 72)

A (7, 56, 63)

B (3, 15, 24)

C (6, 42, 54)

D (5, 30, 35)

Answer: C

#### Explanation:

(8, 56, 72)

follows the pattern

(8,  $8 \times 7$ ,  $8 \times 9$ )

So (6, 42, 54) is similar to (8, 56, 72)

as it follows the pattern

(6,  $6 \times 7$ ,  $6 \times 9$ )

### Instructions

In each of the following questions a series is given, with one/two term(s) missing. Choose the correct alternative from the given ones that will complete the series.

### Question 8

9, 8, 10, 16, 11, ?, 12, 64

A 28

B 36

C 25

D 32

Answer: D

#### Explanation:

In the given question there are two series

Series 1

$8, 8 \times 2 = 16, 16 \times 2 = 32, 32 \times 2 = 64$

Series 2

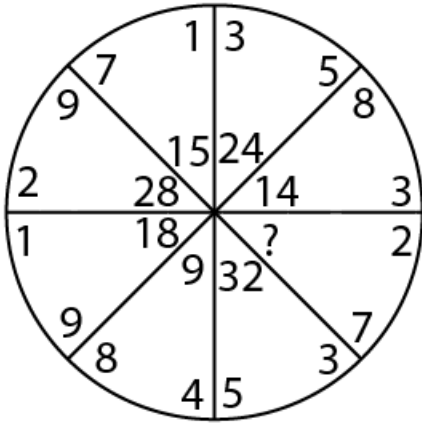
9, 10, 11, 12

So option D is correct

### Instructions

In each of the following questions, select the missing number from the given responses.

Question 9



- A 20
- B 25
- C 10
- D 15

Answer: D

**Explanation:**

The product of 2 numbers in a sector is equal to the central number in the previous sector.

$$3 \times 5 = 15, 8 \times 3 = 24$$

$$2 \times 7 = 14$$

Similarly,  $5 \times 3 = 15$

=> Ans - (D)

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**Instructions**

In each of the following questions, select the missing number from the given responses.

**Question 10**

- 5 1 25
- 6 2 18
- 10 4 25
- 3 3 ?

- A 10
- B 9
- C 3
- D 4

Answer: C

**Explanation:**

Each row of the given matrix follows the pattern

$$5^2/1 = 25$$

$$6^2/2 = 18$$

$$10^2/4 = 25$$

$$3^2/3 = 3$$

### Instructions

In each of the following questions, select the missing number from the given responses :

#### Question 11

216 209 202

522 515 508

633 626 ?

A 620

B 608

C 602

D 619

**Answer: D**

#### Explanation:

In each row the next term is obtained by subtracting 7 from the previous term

In Row 1

$$216, 216 - 7 = 209, 209 - 7 = 202$$

In Row 2

$$522, 522 - 7 = 515, 515 - 7 = 508$$

In Row 3

$$633, 633 - 7 = 626, 626 - 7 = 619$$

So ? = 619

### Instructions

For the following questions answer them individually

#### Question 12

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

144, 256, 400, ?

A 441

B 576

C 625

D 289

**Answer: B**

#### Explanation:

The pattern followed is :

$$\begin{array}{cccc} (12)^2 & (16)^2 & (20)^2 & (24)^2 \\ \hline & +4 & +4 & +4 \end{array}$$

Thus,  $24^2 = 576$

=> Ans - (B)

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### Question 13

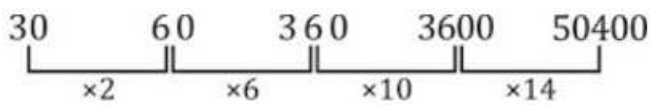
A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.  
30, 60, 360, 3600, ?

- A 48500
- B 50500
- C 50400
- D 40800

Answer: C

#### Explanation:

Expression : 30, 60, 360, 3600, ?



Thus, missing number = 50400

=> Ans - (C)

### Question 14

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.  
17, 27, 42, 62, ?

- A 82
- B 87
- C 81
- D 84

Answer: B

#### Explanation:

Multiples of 5 are added.

$$17 + 10 = 27$$

$$27 + 15 = 42$$

$$42 + 20 = 62$$

$$62 + 25 = 87$$

=> Ans - (B)

### Question 15

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.  
2, 7, 16, ?, 46, 67

- A 26
- B 27
- C 29



D 31

Answer: C

**Explanation:**

Numbers with difference of 4 are added.

$$2 + 5 = 7$$

$$7 + 9 = 9$$

$$16 + 13 = 29$$

$$29 + 17 = 46$$

$$46 + 21 = 67$$

=> Ans - (C)

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