

Number Series

What is Number Series?

Number series is a arrangement of numbers in a certain order, where some numbers are wrongly put into the series of numbers and some number is missing in that series, we need to observe and find the accurate number to the series of numbers.

In competitive exams number series are given and where you need to find missing numbers. The number series are come in different types. At first you have to decided what type of series are given in papers then according with this you have to use shortcut tricks as fast as you can .

Different types of Number Series

There are some format of series which are given in Exams.

Perfect Square Series:

This Types of Series are based on **square** of a number which is in same order and one square number is missing in that given series.

Example 1: 441, 484, 529, 576?

Answer: $441 = 21^2$, $484 = 22^2$, $529 = 23^2$, $576 = 24^2$, $625 = 25^2$.

Perfect Cube Series:

This Types of Series are based on **cube** of a number which is in same order and one **cube** number is missing in that given series

Example 2: 1331, 1728, 2197, ?

Answer : 11^3 , 12^3 , 13^3 , 14^3

Geometric Series:

This type of series are based on ascending or descending order of numbers and each successive number is obtain by multiplying or dividing the previous number with a fixed number.

Example 3: 5, 45, 405, 3645,?

Answer: $5 \times 9 = 45$, $45 \times 9 = 405$, $405 \times 9 = 3645$, $3645 \times 9 = 32805$.

Two stage Type Series:

A two tier Arithmetic series is one in which the differences of successive numbers themselves form an arithmetic series.

Example 4: i. 3, 9, 18, 35, 58,——

ii. 6, 9, 17, 23,———

Mixed Series:

This type of series are more than one different order are given in a series which arranged in alternatively in a single series or created according to any non-conventional rule. This mixed series Examples are describes in separately.

Examples 5:

11, 24, 50, 102, 206, ?

Answer:

$$11 \times 2 = 22 + 2 = 24,$$

$$24 \times 2 = 48 + 2 = 50,$$

$$50 \times 2 = 100 + 2 = 102,$$

$$102 \times 2 = 204 + 2 = 206,$$

$$206 \times 2 = 412 + 2 = 414.$$

So the missing number is 414.

Number Series Rules with solved Problems

Series is an important chapter from banking examination point of view. Following are some of the important rules or order on which the number series can be made :-

Pure Series

Difference Series

Ratio Series

Mixed Series

Geometric Series

Two Tier Arithmetic Series

Other Types

1. Pure Series

In this type of number series, the number itself obeys certain order so that the character of the series can be found out.

The number itself may be.

Perfect Square

Example :

121, 144, 169, 225 ?

Answer - 256

Perfect Cube

Example :

6859, 5832, 4913, 4096, 3375, ?

Answer - 2744

2. Difference Series

Example :

1348, 1338, 1318, 1288, 1248, ?

Answer - 1198

3. Ratio Series

Example :

336, 168, 84, 42, 21, ?

Answer - 10.5

4. Mixed Series

Example :

222, 441, 1321, 2639, 7915, ?

Answer - 15827

5. Geometric Series

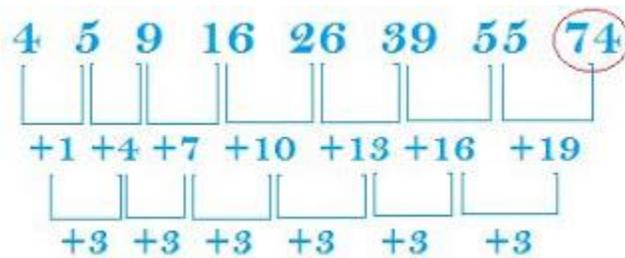
Example 1. 5, 35, 245, 1715, ?

Ans. 12005

Examples 2. 43923, 3993, 363, 33, ?

Ans. 3

6. Two-tier Arithmetic Series



7. Other Type

To find the odd number from the number series. In this type of series the above rules are also followed.