



## Number Series Reasoning

In today's blog we will learn about a very important and scoring topic of the Logical Reasoning section - Number Series.

This topic carries a good weightage in all SSC exams. As an aspirant, you must be well-versed with this topic. This blog is here to help you understand the basics of Number Series.

## What is Series in Logical Reasoning?

In the Logical Reasoning Section, Series is a chapter where a continuous sequence of numbers, letters, or words are obtained by some particular previously defined rule. Applying that predefined rule, it is possible to find out the next term or missing term of the series.

Series can be divided into six main types:

1. Letter Series
2. Repeated/Fill in the blanks Series
3. Number Series
4. Mixed Series
5. Matrix or Figural Number Series
6. Image Series

In this blog, we will learn about Number Series.



## Number Series Reasoning

### What is Number Series Reasoning?

Number Series refers to a sequence of numbers following some pattern. Candidates need to find the missing or wrong number in the given series. There is no set pattern and each question may follow a different type of pattern and sequential arrangement, which candidates need to identify using their common sense and reasoning ability.

Based on the questions asked in the previous year exams, we have classified the Number Series Reasoning section into the following types:

1. **Addition Series** - Sequence is formed by addition of specific numbers.
2. **Subtraction Series** - Sequence is formed by subtraction of specific numbers.
3. **Multiplication Series** - Sequence is formed by multiplying certain numbers.
4. **Division Series** - Sequence is formed by dividing certain numbers.
5. **Square Series** - Sequence is formed by the squares of numbers following a certain pattern.
6. **Cube Series** - Sequence is formed by the cubes of numbers following a certain pattern.
7. **Fibonacci Series** - In this type of Number Series, the next number is the addition of two previous numbers.
8. **Alternate Number Series** - In this type of Number Series, multiple number patterns are used alternately to form a sequence.

There can be many more patterns and logics used to form a Number Series. Given below are some tips and tricks to quickly solve Number Series questions in the exam.



## Number Series Reasoning

### Tips and Tricks to solve Number Series Reasoning

1. You first need to find the process involved in forming the series such as addition, subtraction, multiplication, division, etc.
2. If it is a missing number series, apply the same logic to find out the missing number.
3. If it is a wrong number series, apply the operation to every number in the series, and find the wrong number.

We have given a few previously asked questions along with solutions for your better understanding.

**Direction:** Which of the following numbers will replace the question mark (?) in the given series?

Q:1 382, 322, 272, 232, 202, ?

1.168

2.150

3.182

4.132

**Answer: (3)**



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## Number Series Reasoning

The series follows this pattern:

$$382 - 60 = 322,$$

$$322 - 50 = 272,$$

$$272 - 40 = 232,$$

$$232 - 30 = 202,$$

$$202 - 20 = 182$$

Q:2 14, 14, 12, 36, 32, 160, ?

1.150

2.166

3.154

4.145

Answer: (3)

The series follows this pattern:

$$14 \times 1 = 14,$$

$$14 - 2 = 12,$$



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## Number Series Reasoning

$$12 \times 3 = 36,$$

$$36 - 4 = 32,$$

$$32 \times 5 = 160,$$

$$160 - 6 = 154$$

Q:3 345, 356, 368, 381, 395,?

1.409

2.408

3.406

4.410

Answer: (4)

The series follows this pattern:

$$345 + 11 = 356,$$

$$356 + 12 = 368,$$

$$368 + 13 = 381,$$

$$381 + 14 = 395,$$



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## Number Series Reasoning

$$395 + 15 = 410$$

Q:4 157, 161, 170, 186, 211, ?

1.249

2.263

3.271

4.247

Answer: (4)

Adding the square of consecutive numbers starting from 2.

$$157 + 2^2 = 161;$$

$$161 + 3^2 = 170;$$

$$170 + 4^2 = 186;$$

$$186 + 5^2 = 211;$$

$$211 + 6^2 = 247$$

Q:5 12, 44, 79, 117, 158, ?



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## Number Series Reasoning

1.202

2.206

3.200

4.204

Answer: (1)

The series follows this pattern:

$$12 + 32 = 44,$$

$$44 + 35 = 79,$$

$$79 + 38 = 117,$$

$$117 + 41 = 158,$$

$$158 + 44 = 202$$

Q:6 12, 15, 21, 30, 42, ?

1.57

2.60

3.63



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## Number Series Reasoning

4.66

Answer: (1)

The series follows this pattern:

$$12 + 3 = 15;$$

$$15 + 6 = 21;$$

$$21 + 9 = 30;$$

$$30 + 12 = 42;$$

$$42 + 15 = 57$$

Q: 7 86, 76, 81, 71, 76, ?

1.71

2.65

3.50

4.66

Answer: (4)

The series follows this pattern:





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## Number Series Reasoning

$$86 - 10 = 76;$$

$$76 + 5 = 81;$$

$$81 - 10 = 71;$$

$$71 + 5 = 76;$$

$$76 - 10 = 66$$

Q: 8 55, 60, 64, 67, 69, ?

1. 69

2. 70

3. 71

4. 65

Answer: (2)

The series follows this pattern:

$$55 + 5 = 60;$$

$$60 + 4 = 64;$$

$$64 + 3 = 67;$$

## Number Series Reasoning

$$67 + 2 = 69;$$

$$69 + 1 = 70$$

