## SERIES

A series is a set of some number or letters arranged in some typical way or we can say that, a series is an informally speaking of number or letters.

In a series questions, you have to given some finite terms with one or a pair of term missing and you have to complete the series by filling that missing term, based on the pattern of the question.
There are two types of Series:

1. Number Series
2. Letter Series

In comparison to Letter Series, Number series is more typical. To be good in Number series one must have the basic knowledge of numbers. For example, what are Natural Numbers, Rational Numbers, Whole Numbers etc. The Number Series questions are based on different patterns. Some of them are:

- Prime Number Pattern
- Square Number Pattern
- Cube Number Pattern
- Complex Multiplication Pattern etc.


## For example:

$\begin{array}{llllllll}1 . & 1 & 2 & 2 & 4 & 8 & 32 & 256\end{array}$
In the above series, each number (except the first two) is a multiple of its previous two number.
$1 * 2=2$,
$2 * 2=4$,
$4 * 2=8$ and so on.
2. A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
$2,10,30,68$, ?
A. 130
B. 135
C. 140
D. 120

Ans: A
Solution:
The numbers are related as follows,


Thus, the next number in the series is 130 .
3. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
$16,17,21,30,46$, ?
A. 71
B. 59
C. 64
D. 63

Ans: A
Solution:
The original series is $16,17,21,30,46$, ?
Here we add perfect square ( $1,4,9,16$, and 25 ) to each term starting from 1.
$\Rightarrow 16+1=17$
$\Rightarrow 17+4=21$
$\Rightarrow 21+9=30$
$\Rightarrow 30+16=46$
$\Rightarrow 46+25=71$
Hence, option (A) is the correct answer.
On the other hand, Letter series comes with tricks, mainly based on place value of alphabet or skipping of letters between two terms. So, it is clear that to be efficient in Letter series, one should memorize the place value of all alphabets i.e A to $Z$ ( 1 to 26).

The word EJOTY will help you to remember the place value of letters used in this word. They have place value in terms of multiples of 5 , as shown below:

E --- 5
J --- 10
O--- 15
T --- 20
Y --- 25

