NUMBER SERIES METHODS SHORTCUT TRICKS

Important Points to remember:

i). If numbers are in ascending order in the number series.

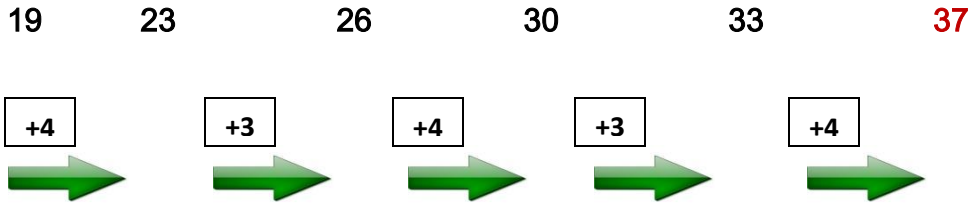
- Numbers may be added or multiplied by certain numbers from the first number.

SET – I:

Step 1 : Check whether it is ascending , descending or mixed order.

Example 1:

1. 19 23 26 30 33 ?



Step 2 : It is in ascending order. So add or multiply by certain numbers from the first number.

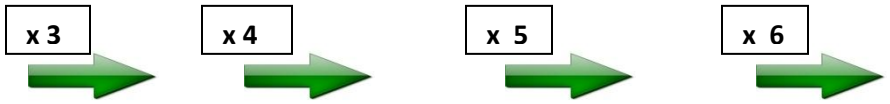
Step 3 : The difference between first number and second, and difference between second and third and so on., are in increasing order of +4 and +3

Step 4: Hence the answer for above series is 37.

Example 2:

2) 1 3 12 60 ?

1 3 12 60 360



Step 1 : Check whether it is ascending , descending or mixed order.

Step 2 : It is in ascending order. So add or multiply by certain numbers from the first number.

Step 3 : By adding first number and second, and second and third and so on., it is not in the sequence of increasing order. Try multiplication

Step 4: Take 1 and 3, let's start multiplying 1*3=3, by seeing this we get to know, by multiplying 3*4 it gives 12, and 12*5=60.

Step 4: Hence the answer for above series is 360.

ii). If numbers are in descending order in the number series,

- numbers may be subtracted or divided by certain numbers from the first number.

SET – II :

Step 1 : Find whether the given number is in descending order.

Example 3:

3). 34 18 10 6 4 ?

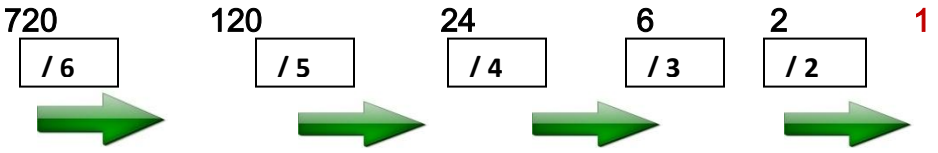
Step 2 : It is in descending order . So subtract or divide by certain numbers from the first number.

Step 3: The difference between first number and second, and difference between second and third and so on, are in order of -16,-8,-4,-2

Step 4: Hence the answer for above series is 3.

Example 4:

4. 720 120 24 6 2 1 ?



Step 1 : Check whether it is ascending , descending or mixed order.

Step 2 : It is in descending order. So subtract or divide by certain numbers from the first number.

Step 3 : By dividing first number by 6 it gives 120.

Divide 120/ 5 =24, 24/4=6, 6/3=2, 2/2=1 .It is in decreasing order.

Step 4: Hence the answer for above series is 1.

iii. If numbers are in mixing order (increasing and decreasing) in the number series.

- Numbers may be in addition, subtraction, multiplication and division in the alternate numbers.

Example 5:

200 165 148 117 104 ?

200	165	148	117	104	77
(14)2+4	(13)2-4	(12)2+4	(11)2-4	(10)2+4	(9)2-4

Step 1 : Check whether it is ascending , descending or mixed order.

Step 2 : It is in mixing order. So it may be in addition, subtraction, division and multiplication, squares and cubes.

Step 3 : In above series it is mixing of square, addition and subtraction.

(14)2= 196+4= 200

(13)2=169. By adding 4 it gives 173. Try subtraction.

169-4=165

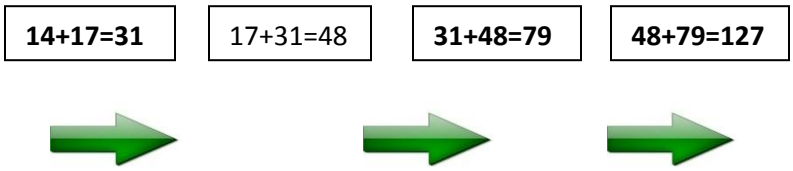
Here we found it is in order of squaring a number, adding by 4 and subtracting by 4.

Step 4: Hence the answer for above series is 77.

Example 6:

14 17 31 48 ? 127

14 17 31 48 79 127



Step 1 : Check whether it is ascending , descending or mixed order.

Step 2 : It is in ascending order. So add or multiply by certain numbers from the first number.

Step 3 : In above series lets add first number with 3 i.e14+3= 17

But with second number we can't able to add +3 and so on.

Let's try adding first number and second number i.e. 14+17=31

Second and third, i.e. 17+31 =48 and so on

This series is in the form of miscellaneous

Step 4: Hence the answer for above series is 79