

# MEASURES OF CENTRAL TENDENCY

A numerical value which represents (approximately) the entire statistical data is called a measure of central tendency.

The numerical value which represents the entire statistical data is neither the lowest nor the highest values in the data rather it lies in between the two extreme values of the data.

The different ways of measuring a central tendency are :-

- (1) Mean
- (2) Median
- (3) Mode.

(1) Mean :- The arithmetic mean of  $n$  variable ( $x_1, x_2, x_3, \dots, x_n$ ) is given by the formula :-

$$\text{Mean} = \frac{x_1 + x_2 + x_3 + \dots + x_n}{n} = \frac{\sum x_i}{n}$$

It gives average of the data series.

भूगोल प्रयोगात्मक (Geography Practical)

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Example 1 :

Q) The marks obtained by 12 children in a maths test are 11, 07, 19, 13, 18, 21, 09, 05, 20, 17, 16, 21. Find the mean mark.

Ans: Sum of marks of all children =  $11 + 7 + 19 + 13 + 18 + 21 + 9 + 5 + 20 + 17 + 16 + 21$   
 $= 177$

$$\text{Mean of Marks} = \frac{\text{Sum of Marks}}{\text{Total Students}} = \frac{\sum x_i}{n}$$

$$= \frac{177}{12} = 14.75$$