

Mode - (12)Uses of Mode

Owing to simplicity of its calculation and understanding, mode is becoming an increasingly popular measure of the central tendency.

In the trading sector this measure is frequently used. Average expenditure, average income of the customers or popularity of goods in the market invariably refers to modal value. Likewise, in Meteorological Department, average rainfall or temperature of a place invariably refers to the modal value. In other spheres of life as well, the use and application of mode is gaining popularity.

Calculation of Mode: A GlanceTypes of Series.① Individual SeriesMethod of Calculation

① The value that occurs the most in the series is identified as mode of the series by inspection method.

## Types of Series

## Method of Calculation

### (i) Individual Series

(b) If the frequency of all values is equal the same are changed into discrete series and then mode is calculated.

### (ii) Discrete Series.

(a) The value that occurs the most in the series is identified by inspection method.

(b) If items with highest frequency are more than one, then grouping method is used.

### (iii) Frequency distribution Series.

(a) Exclusive: Series with highest frequency is called modal class. The actual value of mode is determined using the following

$$\text{Formula: } \frac{f_1 - f_0}{2f_1 - f_0 - f_2} \times h$$

(b) Inclusive: Inclusive series is converted into exclusive series.

④ Moderately Asymmetrical Distributions.  $z = 3\sigma - 2\bar{x}$



The End.  
Thank You.