

Chapter – 9

STATISTICS

Statistics deals with the collection, classification, presentation, analysis and interpretation of numeric data (quantitative data).

The simplest form of numerical data is a series of values of a certain variable. Such values can be given as individual numbers. Therefore, such data is called an individual series or raw data.

In such a series, some numbers could occur repeatedly. In such cases, it would be convenient to group these numbers. This grouping can be done in two ways. The numbers can be arranged in ascending (or descending) order and the number of times each number occurs (its frequency) can be specified. This results in a discrete series. Alternately, we may choose to ignore the actual number and record only the fact that it lies between certain limits. Such grouping results in a continuous series. The values between the limits are called intervals. For example, consider the marks obtained by the students of a class. This data has been represented in each of the ways below.

Individual series:

60, 55, 70, 60, 70

65, 75, 65, 70, 55

58, 74, 67, 68, 73

Discrete series

Frequency	2	1	2	2	1	1	3	1	1	1
Number	55	58	60	65	67	68	70	73	74	75

Continuous series:

We denote the marks obtained by the students as

Intervals	Frequency
$x \leq 55$	2
$55 < x \leq 60$	3
$60 < x \leq 65$	2
$65 < x \leq 70$	5
$70 < x \leq 75$	3

Collection of data, especially on a large scale, is typically an expensive process and requires big teams of field workers. Therefore it needs careful planning. The primary consideration is the purpose for which the collected data will be used.

After data has been collected, classified and presented, it has to be analysed and interpreted. To analyse data, the important features of the data have to be identified and relations between quantities (variables) have to be studied. Two important features of any data are the central tendency and dispersion. Instead of thinking of all the numbers in a set, we would like to think of a typical number, the 'central' value. Two sets of numbers, which may have the same 'central' value, may differ in terms of the variation of all the numbers in the set, i.e., the extent to which the numbers 'disperse' from this central value.

Various quantitative measures can be defined to measure these two properties, i.e. central tendency and dispersion.

In this chapter, we shall limit ourselves to an individual series and study such properties.

I. Measures of Central Tendencies

The measures we discuss here are

- (A) Arithmetic Mean,
- (B) Geometric Mean,
- (C) Harmonic Mean,
- (D) Median and
- (E) Mode.

1. Arithmetic Mean (A.M.) ($\bar{x}$)

Given $x_1, x_2, \dots, x_n$ (n individual items)

$$A.M. = \bar{x} = \frac{x_1 + x_2 + \dots + x_n}{n}$$

or $\bar{x} = \frac{\text{Sum of the observations}}{\text{The number of observations}}$

Examples

(i) The arithmetic mean of (5, 8, 9, 14, -16) is

$$= \frac{5 + 8 + 9 + 14 - 16}{5} = \frac{20}{5} = 4$$

(ii) The arithmetic mean of (3, 4, 5, 6, 7, 8, 9, 10) is

$$= \frac{3 + 4 + 5 + 6 + 7 + 8 + 9 + 10}{8} = \frac{52}{10} = 5.2$$

Note:

- (a) The algebraic sum of deviations about the mean is 0 or $\sum(x - \bar{x}) = 0$.
- (b) The arithmetic mean of two numbers a, b is $\frac{a+b}{2}$.
- (c) If $b = AM$ of (a, c) , then a, b and c are in arithmetic progression.

2. Geometric Mean (G.M.)

Given $x_1, x_2, \dots, x_n$ (n individual items all being positive)

$$G.M. = (x_1 \cdot x_2 \cdot \dots \cdot x_n)^{1/n}$$

or G.M. = n^{th} root of the product of the numbers.

Examples

(i) The geometric mean of (10, 30, 90) is

$$= (10 \times 30 \times 90)^{1/3}$$

$$= (10 \times 30 \times 3 \times 30)^{1/3}$$

$$= (30 \times 30 \times 30)^{1/3} = 30$$

(ii) The geometric mean of (24, 20, 15, 45, 75) is

$$= (8 \times 3 \times 5 \times 4 \times 3 \times 5 \times 3^2 \times 5 \times 3 \times 5^2)^{1/5}$$

$$= (2^2 \times 3^2 \times 5^2)^{1/5}$$

$$= 2 \times 3 \times 5 = 30$$

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Jeff Calder, Peter J. Olver



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