#### 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 of 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

F	Frequency	2	3.	2	2	1	. 1	3	. 1	1	- 1
Г	Number	55	58	60	65	67	68	70	73	74	75

Continuous series We denote the marks obtained by the students as

Intervals	Frequency 2		
× ≤ 55			
55< × ≤ 60	3		
$60 < x \le 65$	2		
65 < × ≤ 70	5		
70 < x ≤ 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 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, ie 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
- (5) Mode.

#### 1. Arithmetic Mean (A.M.) (x)

Given x<sub>1</sub>, x<sub>2</sub>, ..... x<sub>n</sub> (n individual items)

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

#### Examples

- (ii) The arithmetic mean of (3, 4, 5, 6, 7, 8, 9, 10) is 3+4+5+6+7+8+9+10 52 52 52

#### Motors

- (a) The algebraic sum of deviations about the mean is 0 or Σ(x − x̄) = 0.
- (b) The arithmetic mean of two numbers a, b is a + b -
- (c) If b = AM of (a, c), then a, b and c are in arithmetic progression.

#### Geometric Mean (G.M.)

Given x<sub>1</sub>, x<sub>2</sub>, ....., x<sub>n</sub> (n individual items all being positive)

$$G.M. = (\mathbf{x}_1 \cdot \mathbf{x}_2 \cdot \ldots, \mathbf{x}_n)^{1/n}$$

or G.M. = n<sup>th</sup> root of the product of the numbers.

#### Examples

- The geometric mean of (10, 30, 90) is
  = (10 × 30 × 90)<sup>13</sup>
  = (10 × 30 × 3 × 30)<sup>13</sup>
  = (30 × 30 × 30)<sup>13</sup> = 30
- (ii) The geometric mean of (24, 20, 15, 45, 75) is = (8 × 3 × 5 × 4 × 3 × 5 × 3<sup>2</sup> × 5 × 3 × 5<sup>2</sup>)<sup>1-5</sup> = (2<sup>5</sup> × 3<sup>5</sup>) × 5<sup>2</sup>)<sup>15</sup> = 2 × 3 × 5 = 30

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# **Mathematics Course 3 Chapter 9 Statistics And Matrices**

Michal Rosen-Zvi

#### **Mathematics Course 3 Chapter 9 Statistics And Matrices:**

Matrix Mathematics Dennis S. Bernstein, 2009-07-06 When first published in 2005 Matrix Mathematics quickly became the essential reference book for users of matrices in all branches of engineering science and applied mathematics In this fully updated and expanded edition the author brings together the latest results on matrix theory to make this the most complete current and easy to use book on matrices Each chapter describes relevant background theory followed by specialized results Hundreds of identities inequalities and matrix facts are stated clearly and rigorously with cross references citations to the literature and illuminating remarks Beginning with preliminaries on sets functions and relations Matrix Mathematics covers all of the major topics in matrix theory including matrix transformations polynomial matrices matrix decompositions generalized inverses Kronecker and Schur algebra positive semidefinite matrices vector and matrix norms the matrix exponential and stability theory and linear systems and control theory Also included are a detailed list of symbols a summary of notation and conventions an extensive bibliography and author index with page references and an exhaustive subject index This significantly expanded edition of Matrix Mathematics features a wealth of new material on graphs scalar identities and inequalities alternative partial orderings matrix pencils finite groups zeros of multivariable transfer functions roots of polynomials convex functions and matrix norms Covers hundreds of important and useful results on matrix theory many never before available in any book Provides a list of symbols and a summary of conventions for easy use Includes an extensive collection of scalar identities and inequalities Features a detailed bibliography and author index with page references Includes an exhaustive subject index with cross referencing Research in Education .1971 Resources in Education ,1992 Unified Modern Mathematics, Course 1-3 Secondary School Mathematics Curriculum Improvement Study, 1968 Mathematics Michael Sullivan, Abe Mizrahi, 2004-06-01 Looking for a textbook to help you motivate your students Sullivan Mizrahi s Mathematics An Applied Approach 8 e continues its rich tradition of engaging students and demonstrating how mathematics applies to various fields of study. The text is packed with real data and real life applications to business economics social and life sciences The new Eighth Edition also features a new full color design and improved goal oriented pedagogy to further help student understanding Numerical Linear Algebra SUNDARAPANDIAN, V., 2008-04-23 This well organized text provides a clear analysis of the fundamental concepts of numerical linear algebra It presents various numerical methods for the basic topics of linear algebra with a detailed discussion on theory algorithms and MATLAB implementation The book provides a review of matrix algebra and its important results in the opening chapter and examines these results in the subsequent chapters With clear explanations the book analyzes different kinds of numerical algorithms for solving linear algebra such as the elimination and iterative methods for linear systems the condition number of a matrix singular value decomposition SVD of a matrix and linear least squares problem In addition it describes the Householder and Givens matrices and their applications and the basic numerical methods for solving the matrix eigenvalue

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