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 x₁, x₂, x_n (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 x₁, x₂,, x_n (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. = nth root of the product of the numbers.

Examples

- The geometric mean of (10, 30, 90) is
 = (10 × 30 × 90)¹³
 = (10 × 30 × 3 × 30)¹³
 = (30 × 30 × 30)¹³ = 30
- (ii) The geometric mean of (24, 20, 15, 45, 75) is = (8 × 3 × 5 × 4 × 3 × 5 × 3² × 5 × 3 × 5²)¹²² = (2° × 3² × 5²)¹²² = 2 × 3 × 5 = 30

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Mathematics Course 3 Chapter 9 Statistics And Matrices

Dennis S. Bernstein

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Table of Contents Mathematics Course 3 Chapter 9 Statistics And Matrices

- 1. Understanding the eBook Mathematics Course 3 Chapter 9 Statistics And Matrices
 - The Rise of Digital Reading Mathematics Course 3 Chapter 9 Statistics And Matrices
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mathematics Course 3 Chapter 9 Statistics And Matrices
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematics Course 3 Chapter 9 Statistics And Matrices
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mathematics Course 3 Chapter 9 Statistics And Matrices
 - Personalized Recommendations
 - Mathematics Course 3 Chapter 9 Statistics And Matrices User Reviews and Ratings
 - Mathematics Course 3 Chapter 9 Statistics And Matrices and Bestseller Lists

- 5. Accessing Mathematics Course 3 Chapter 9 Statistics And Matrices Free and Paid eBooks
 - Mathematics Course 3 Chapter 9 Statistics And Matrices Public Domain eBooks
 - Mathematics Course 3 Chapter 9 Statistics And Matrices eBook Subscription Services
 - Mathematics Course 3 Chapter 9 Statistics And Matrices Budget-Friendly Options
- 6. Navigating Mathematics Course 3 Chapter 9 Statistics And Matrices eBook Formats
 - o ePub, PDF, MOBI, and More
 - Mathematics Course 3 Chapter 9 Statistics And Matrices Compatibility with Devices
 - Mathematics Course 3 Chapter 9 Statistics And Matrices Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics Course 3 Chapter 9 Statistics And Matrices
 - Highlighting and Note-Taking Mathematics Course 3 Chapter 9 Statistics And Matrices
 - Interactive Elements Mathematics Course 3 Chapter 9 Statistics And Matrices
- 8. Staying Engaged with Mathematics Course 3 Chapter 9 Statistics And Matrices
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Course 3 Chapter 9 Statistics And Matrices
- 9. Balancing eBooks and Physical Books Mathematics Course 3 Chapter 9 Statistics And Matrices
 - Benefits of a Digital Library
 - \circ Creating a Diverse Reading Collection Mathematics Course 3 Chapter 9 Statistics And Matrices
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics Course 3 Chapter 9 Statistics And Matrices
 - Setting Reading Goals Mathematics Course 3 Chapter 9 Statistics And Matrices
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics Course 3 Chapter 9 Statistics And Matrices
 - Fact-Checking eBook Content of Mathematics Course 3 Chapter 9 Statistics And Matrices
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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