Business Statistics



Meaning of Statistics

 The word statistics is used in three different senses:

- 1. Statistics as Singular
- 2. Statistics as Plural
- 3. Statistics as a Plural of Statistic

Meanings of Statistics

The word statistics has three different meanings (sense) which are discussed below:

- (1) Plural Sense
- (2) Singular Sense
- (3) Plural of the word "Statistic"

Meaning of Statistics

Statistics as singular:

-branch of knowledge that deals with the collection, organization, classification, presentation, summarization, analysis, and interpretation of statistical data in any field of inquiry

Statistics as plural:

- refer to numerical facts and figures collected in a systematic manner with a definite purpose in any field of study
- In this sense, statistics are also aggregates of facts which are expressed in numerical form

Example: Statistics on industrial production, statistics or population growth of a country in different years etc.

Statistics as a plural of statistic:

 used as the plural of the word "Statistic" which refers to a numerical quantity like mean, median, variance etc..., calculated from sample value

Example: If we select 15 student from a class of 80 students, measure their heights and find the average height. This average would be a statistic.

Meanings of Statistics

(1) Plural Sense:

 Statistics are also aggregates of facts which are expressed in numerical form.

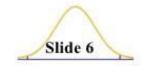
Example, Statistics on industrial production, statistics or population growth of a country in different years etc.

Meanings of Statistics

(2) Singular Sense:

- In singular sense, it refers to the science comprising methods which are used in collection, analysis, interpretation and presentation of numerical data.
- A device which is employed for the purpose of collection, classification, presentation, comparison and interpretation of data.

Definitions



Statistics

a collection of methods for planning experiments, obtaining data, and then then organizing, summarizing, presenting, analyzing, interpreting, and drawing conclusions based on the data.

CHARACTERSTICS

- Aggregate of facts
- Numerically expressed
- Enumerated or estimated
- Reasonable Standard of Accuracy
- Collected in a systematic manner
- Predetermined purpose
- Capable of being placed in relation to each other

IMPORTANCE OF STATISTICS

- Scope in Social Sciences.
- Scope for Education.
- Scope for solving the problems.
- Scope for commerce
- Scope for formulating the theories.
- Statistics and Business.
- Statistics and Mathematics
- Statistics and Economics.
- Statistics in Insurance.
- Statistics in Planning.
- Statistics and Econometrics
- Statistics and Physical and Natural Sciences
- Statistics and the State.

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LIMITATIONS OF STATISTICS

- 1. Study of Numerical Facts only
- 2. Study of Aggregates only
- 3. Not the only Method
- 4. Homogeneity of Data
- 5. Results are true only on an Average
- 6. Without Reference Results may Prove Wrong
- 7. Can be used only by Experts
- 8. Misuse of Statistics is Possible
- 9. Only Means and not a Solution

Thank you

