

CHAPTER 14

Statistics

Introduction:

The branch of mathematics, which deals with the study of extraction of meaningful information from given data is called 'Statistics'. Statistics is used in various fields such as natural and social sciences, government activities, business and so on, which need information in the form of facts and figures.

Characteristics of statistics:

- A single observation does not form statistics. Statistics are a sum of total observations.
- Statistics are expressed quantitatively and not qualitatively.
- Statistics are collected with a define purpose.
- In statistics, experiments are comparable and can be classified into various groups.

Synopsis:

Data:

Data is a collection of facts in the form of numbers, words, measurements, observations or description of things for a specific purpose.

(OR)

The word data means information. Data can be numerical or otherwise.

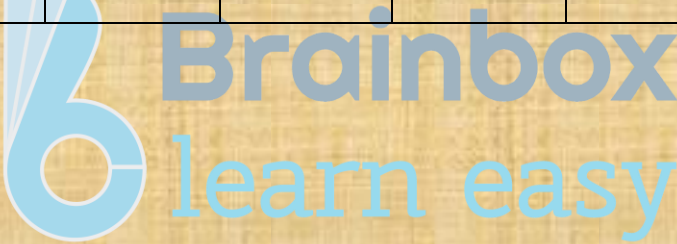
Example 1:

The marks obtained by 10 students of a class in a test out of 100 marks are 65, 70, 82, 80, 81, 75, 100, 61, 50, 40.

Example 2:

The following table shows the count of a few mammals in a sanctuary.

Mammals	Elephant	Bear	Giraffe	Cheetah	Tiger
Number	70	90	20	15	30



Types of data:

