

# Statistics

Date  
Page 10/12/24

# Statistics : Science of Stats is <sup>↑</sup>collecting, organizing and analyzing data.

# Data : fact or piece of information

ex: Height of students in classroom.  
like on reels  
name of students..

# Types of Statistics :

- 1] Descriptive Statistics [Describe]
- 2] Inferential Statistics [Sample, prediction]

1] Descriptive Statistics :

It consist of organizing Summarizing and visualizing data.

1] Measure of Central Tendency :

Three types of central Tendency

- i] Mean
- ii] median
- iii] Mode

2] Measure of Dispersion :  
(Spread)

Points of Dispersion :

- Standard Deviation
- Variance
- Mean Deviation
- Range (R)

# Type of Data

1] Categorical  
(Qualitative)

2] Numerical  
(Quantitative)

Nominal Data

Ordinal Data

Discrete data

Continuous Data

No Rank

Rank

Ex: whole No.

Ex: Any

Ex: Gender,

Ex: Roll No.

Ex: No. of children

Ex: values

colors name,

Customer No.

No. of bikes

Ex: weight

Blood group,

Feedback (1, 2, ...)

Age

Height

Location

Winning No.

km

• Types of Statistics

Sample : is a subset of population. It is smaller group of individual or object that we select from population to study. Sample are used to estimate characteristics of the population, such as mean or proportion with a certain attribute. Ex, we might randomly select 100 students.