

# 15. STATISTICS

- ▶ Central tendency
  - Mean
  - Median
  - Mode
- ▶ Measure of dispersion
  - Range
  - Quartile deviation
  - Mean deviation
  - Standard deviation
- ▶ Discrete & Continuous frequency distribution
- ▶ Limitations of mean deviation
- ▶ Variance & Standard deviation
- ▶ Analysis of frequency Distributions

# Definition

- ▶ Statistics is the science of averages and their estimates.
- ▶ It deals with **data** collected for specific purposes.
- ▶ We can make **decisions** about the data by *analyzing and interpreting* it.
  
- ▶ Uses of statistics-
  - 1) Demography data
  - 2) Sales trend
  - 3) Unemployment ratio
  - 4) Data for business decision

*Ex. Teacher making a result.*

# Central tendency

- ▶ It is a measure that tells us where the middle of a bunch of data lies.
- ▶ There are 3 methods. Mean, median & mode.

## 1)Mean:

->Average

E.g.. Students A & B study 4,2,3,4,5 hr. on weekdays and 4,3,5,6,8 on weekends.





