Statistics Descriptive Summation pie Size of sample size of population factorial permetation npr Combination (n) variance of the sample Standard Deviation signal variance of the population standard Divisition " " + V Meyo, it is Mean = X Lemda intersection 51+12+05

Symbol	Descriptive
O A A	Complement
ECX) COVCX,y)	Expected of X Covariance between X47
pr(A) pr(A/B)	probability Conditional of probability AgivenB
\$, ·	frequency absolute Event
Ec Xc, Zc	observation Xi or Ji
R Me	The Median The mode
M.D.	The coefficient of variation Sum of square.

Types of statistics

1- Descriptive statistics

Consists of Method for organizing, displying and describing data by using tables and summary measures.

2 Inforential status tres

Consists of methods that use sample results to help make deersions or prediction about apopulation:

Defi The Collection of a few element selected from a population is called a sample.

- 2 A population is the collection of items under decision it may be finite or infinite.
- 3- A sample drawn is such away that each element of the population has the same chance of being selected is called a random sample.
 - 4- Avarvable is a characteristic under study assumes different values for different elements.

- The value of the variable for any element is Called an observation.
- * Types of vaniables:-
- 1- Qualitative variables: It is the variable that ve can not assume anumerical value.
- 2- Quatitative vaniablesi. It is a vaniable whose can be put in numerical values.
- a- Discrete vambble: whose values are countable for example: (number of the people visiting

- b- Continuous variable: avariable that can assume any numerical value over a certain interval is called continuous variable-

A data Set is a collection of subservation on * Data Set: