

1) Population data 2) Sample data Deputation data refers to group of individuals events that share a characteristics and are of statistical study. the entire Objects, 08 Common the focus Entire group of interest"

"Usually large (or infinite)"

Symbol pe(mu)" Sample data: 8 "Subset of the bobulation"
"Smaller and managable
"Heights of 500 randomly Chrosen Students"
"Symbol \(\overline{\pi} \) " Sambling techniques in Stats: It is a methods used to Select a Subset (Samble) from larger group (population) Simple Random Sampling (SRS): every individual has equal Chance of being Chosen. Selecting loo Students Gandonly from a

Variable: Property that store / take Variable Qualitative (Catigorical: Grenders)

Quantitative (Numerical: Height) Continous any fraction Discrete eig Whole numbers Frequency distribution: The amount of times element is in data example: Sample data = Green, Red, rellow, Green, Red. Colors frequency Bar graph:

Part of		
Dat	e:	

-> Measure of Central tendency: "Summarise a data set"

) Mean: Drithematic Average

x = {1, 1, 2, 3, 3, 3, 4, 5, 5, 6}

Formula: 2 = xi (Population mean)

Formula: 2 = 2 xi (Sample mean)

X: represents each data foint.
N represents no of Observations.

· It is sensitive to outliers.

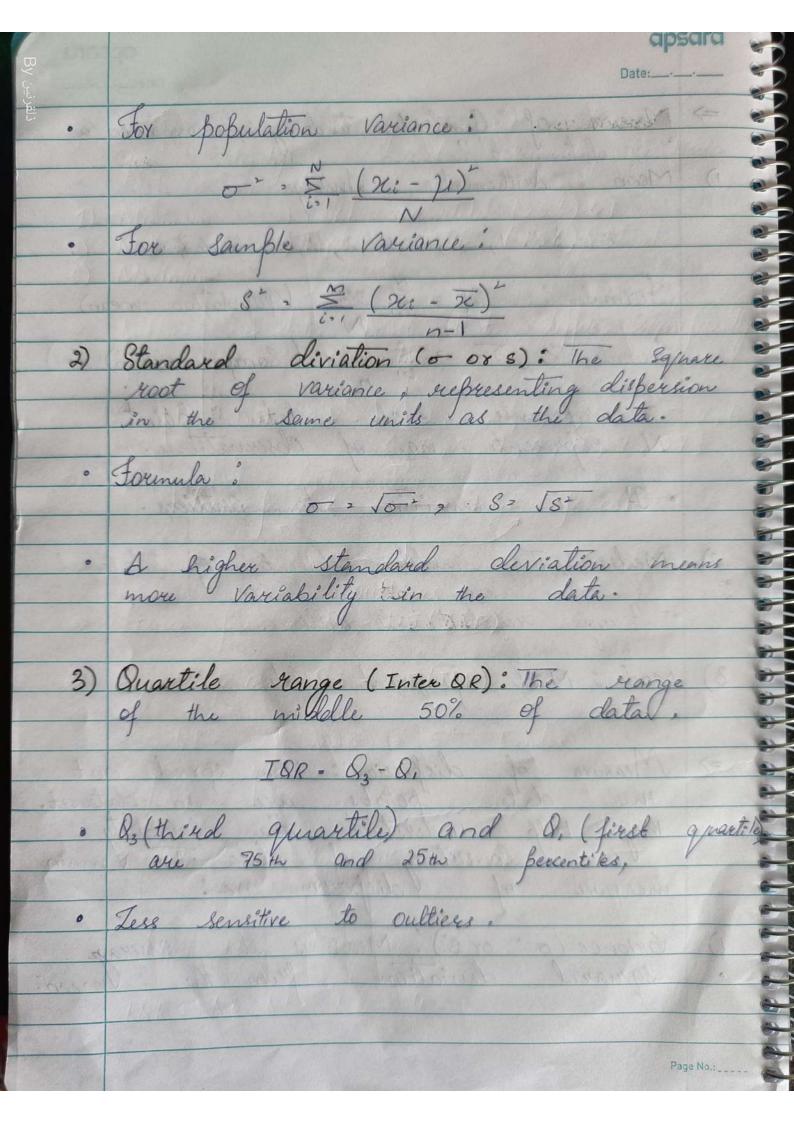
2) Median: The middle element of data set

· It is resistant to outliers.

3) Mode: Most frequent Value

Measure of dispersion: How spread out
the data points are in data set.
they help understand the Variability
or Consistency of data. The main
measure of dispersion are:

· Squared deviation from the mean:



⇒ Percentile: It is a value below which -a certain percentage of observation lies. - 99% fercentile means the ferson has got better marks than 99% of student-10 2 16 × 100 2 80 % ê ê le Q# What value exist at perentile range ranking of 25% ile? Value 29 percentile (x (n+1)/(n-1)+1

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