Population - Entire group we are studying.
-> individuals

Sample -> Subset of population.

Population - stop is first occurrences.

Types of Data

Quantitative data -> numerical data

Qualitative data -> categorical data

-> no numbers, assigns a categorical value

Age - Quant
Time - Quant
Height - Quant
Weight - Quant
Location - Cat
Gender - Cat
Race - Cat
Crime suspected - Cat
Fresh - Cat
Search - Cat
Summarize quantitative data:
population gives parameters
sample gives statistics

Age
youngest: 12
oldest: 78
most: 17 - 30
sort: youngest to oldest

mean: add them all up & divide by the # of observation
median: middle # after in sorted data

affected by outliers
observation far away from most of the observations

not affected by outliers
half of the data above & half below

Excel
average (CF2: CF12:405)
median (CF2: CF12:405)