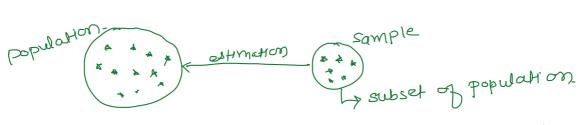
18 January 2022 11:15

Population: - A set or a group of observations having simillar propertices under statistical investigation & called as population

Types of population

- I] finite population: If set or group contours finite or countable observations ex No. 2 students does
- 27 Infinite Population: If set or group contains infinite
 or uncountable observations.
 - ex.1) ho.g deemal in between 1 to 5
 - 2) Sugar postides in a sack
- # <u>Sample</u>: A subset of population is as ample.



If we have large population, It is not possible textudy whole population, so we take somple from the given population to investigate.

ex. 1 While examining blood of an indivisual few trops
are enough offer diagnosis

- population: No g children below 10 yru. Sample: - No. of children belowloghs Whose height is less than 25H
- The Method of collecting sample is called sampling <u>Definition</u> '- A finite subset of statistical Individuals in a population is called a sample and number of individuals in a sample is called the sample size

Types of sampling!some of commonly known types of sampling aregire below-

- 1> purposive sampling samples unik are selected with definite
- DM2) Random sampling
 - 3) Simple Sampling-;- Mhole population is total assingle
 - 4) Stratified sampling: hetrogenowse population

2] Random sampling; -

In this sampling, sample units are selected at random

" samples has an equal chance of being selected is known al random sampling"

The sample is know as random sample.

selection of each element has equal chance

- 1] simple random sampling with replacement
- 2) simple random sampling without replacement.

Parameter & Statistic

* Statistical constant of population are called Parameters of the population.

ex. population mean, size, s.D. ete.

Statistical constant of sample arecalled statistic of samples *

ex. Sample mean, size, S.D. ectc.

population size = N population mean = U g.p = T

> variance = 52 proportion = P

Sample size = n. Samplemann = X S.D = S vornigance = 52 brobarmon = party