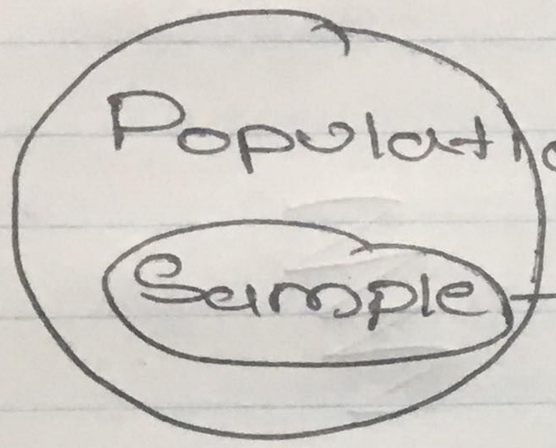
Date:- 7/01/19

Stat 2407. Chapt - 1



→ Set of entire collection of units.

→ Subset of a population

Exercise - 1

1) Identify the population.
2) Identify the Sample.
3) Identify experimental unit.
4) Identify the measurements.

Ex: 1

1) Population = All undergrad students at this gradu- ~~grad~~ university.

2) Sample = 5 students selected.

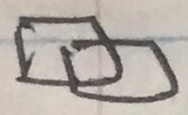
3) Exp. unit = ~~AA~~ All undergrad student.

4) Measurements = GPA, gender, major, credit.

Types of Data:-

- Univariant.
- Bivariant
- Multivariant.

Types of variable



- Qualitative
- Quantitative.
  - Continuous (Time, temp.)
  - Discrete. (For amounts that can range in units)

Eg:-

1) Qualitative
2) Quantitative. (Discrete)
3) Qualitative.
4) Quantitative (continuous)
5) Quantitative (Discrete)

No statistical operations in Qualitative

Qualitative → only pie & bar charts.

Stem & Leaf Plots (For Quantitative data only)

75	2 3 3 6

leaf unit: 1.0

$752 \times 1 = 752$.

10	6 7 8

leaf unit: 0.01

$= 106 \times 0.01$

$= 1.06$

Exercise 8 :-

75(2), 753, 754, 767, 774

75	2 3 4
76	7
77	4

0.1

752×0.1

Q.8 -

4	0
6	0 5 5 5 8 8
7	0 0 0 0 0 0 0 4 5 5 .
9	0 5

unit = 1.0

4	0
5	
6	0 5 5 5 8 8
7	0 0 0 0 0 0 0 4 5 5
8	
9	0 5

unit = 1.0

Splitting
- Into two leaves 0-4, 5-9
- Into 5 leaves (for massive no. of data)
- Each leaf → (0-4) and then (5-9).

Histograms :-

[1, 1.5) , [1.5, 2)

inclusive bracket (minimum) lower limit

exclusive bracket. (maximum) upper limit.

For the following data set :

→ 1, 1.1, 1.2, 1.45, 1.6, 1.8, 1.9.

[1, 1.5) 4

[1.5, 2) 4