

1 Lecture 1 Notes

Definitions:

- Population - _____
- Census - _____
- Sample - _____

Information:

- Data - _____
- Statistics - _____

Information from the Population and Sample:

- Parameter - _____
- Statistic - _____

Table 1: My caption

Information	Population	Sample
Mean	μ	\bar{x}
Standard Deviation		
Variance		
Proportion		

Types of Information:

- Qualitative (categorical) - _____
 - Nominal Level - _____
 - Ordinal Level - _____
- Quantitative (numerical) - _____
 - Interval Level - _____
 - Ratio Level - _____

Collection of Data

1. Various ways of collecting data:

(a) Experiments _____

(b) Observational Study _____

2. Design of experiment:

(a) Replication _____

(b) Blinding _____

(c) Randomization _____

(d) Confounding _____

3. Observational Studies:

(a) Cross-Sectional Study _____

(b) Retrospective (or Case-Control) Study _____

(c) Prospective (or Longitudinal or Cohort) Study _____

4. Sampling Techniques:

(a) Simple Random Sample (SRS) _____

(b) Stratified Sampling _____

(c) Systematic Sampling _____

(d) Convenience Sampling _____

(e) Cluster Sampling _____

(f) Volunteering Sampling _____