

## Introduction to Statistics for Psychology and Basic Concepts of Statistics

**Data** - **Information collected** to gain knowledge about a field or to answer a question of interest.

Data sources include:

- Surveys (Mail, Telephone, Internet)
- Experiments (These days, huge data sets routinely generated in other ways in business, government, at Internet sites)

**Statistics** - Science of collection, presentation, analysis, and reasonable interpretation of data. *(the art and science of learning from data)*

Statistics provides methods for:

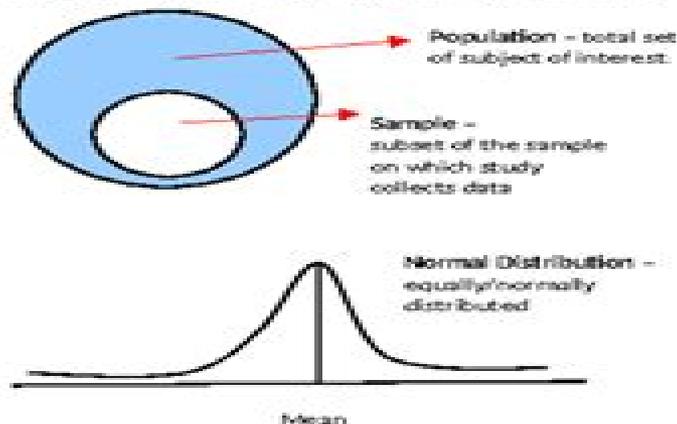
**Design** - *Planning/implementing a study*

Sample survey or experiment?

How to choose people (subjects) for the study, and how many?

**Description** - *Graphical and numerical* methods for summarizing the data

**Inference** - Methods for making **predictions** about a population (total set of subjects of interest), based on a sample (subset of the sample on which study collects data)



### Basic Concepts

- **Population** - The set of all items of interest in a statistical problem
- **Parameter** - A descriptive measure of a population
- **Sample** - A set of items drawn from a population
- **Statistic** - A descriptive measure of a sample

- **Statistical inference** - The process of making an estimate, prediction, or decision based upon sample data

### Types of Data

1. **Qualitative** - **Categorical**, i.e., data represents categories  
e.g. - religion, gender, etc.
2. **Quantitative** - Data are **numerical values**
  - ✓ **Discrete(countable)** - Counts of things: e.g. - Number of bedrooms
  - ✓ **Continuous(interval)** - Measurements: e.g. - Appraised value or square footage

**Variable** - any **characteristic of an individual or entity**. A variable can take different values for different individuals.

1. **Nominal** - **Categorical** (e.g., gender). The only operation that can be applied to Nominal variables is enumeration.
2. **Ordinal** - Variables with an inherent **rank or order**, (e.g. mild, moderate, severe). Can be compared for equality, or greater or less, but not how much greater or less.
3. **Interval** - Values of the **variable are ordered as in Ordinal**, and additionally, **differences between values are meaningful**, however, the scale is not absolutely anchored. (e.g. Calendar dates and temperatures)
4. **Ratio** - **Variables with all properties of Interval plus an absolute, non-arbitrary zero point**, (e.g. age, weight, temperature (Kelvin)).

**Qualitative/non-parametric** (you can't use statistical tools) - Nominal & Ordinal

**Quantitative/parametric** (you can use statistical tools) - Interval & Ratio

**Numerical Descriptive Measures: Notation**

- $N$  = Size of Population
- $n$  = size of sample
- $\mu$  = Population Mean
- $\bar{x}$  = sample mean
- $\sigma^2$  = Population Variance
- $\sigma$  = Population Standard Deviation
- $s^2$  = sample variance
- $s$  = sample standard deviation

**Descriptive statistics** - statistical procedures used to summarize, organize, and simplify data. **describe**

**Inferential statistics** - consist of techniques that allow us to study samples and then make generalizations about the populations from which they were selected.

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