# STATISTICS

## THE BASIC PRINCIPLES OF STATISTICS FOR INTRODUCTORY COURSES

## BASIC DEFINITIONS

**STATISTICS:** The study of methods for collecting, organizing, and analyzing data
- **Descriptive Statistics:** Procedures used to organize and present data in a convenient and communicable form
- **Inferential Statistics:** Procedures employed to arrive at broader conclusions or inferences about populations on the basis of samples
  - **Population:** The complete set of actual or potential elements about which inferences are made
  - **Sample:** A subset of the population selected using some sampling method
- **Sampling methods**
  - **Cluster sample:** A population is divided into groups called clusters; some clusters are randomly selected, and every member in them is observed
  - **Stratified sample:** The population is divided into strata, and a fixed number of elements of each stratum are selected for the sample
  - **Simple random sample:** A sample selected so that each possible sample of the same size has an equal probability of being selected; used for most elementary inference

**VARIABLE:** An attribute of elements of a population or sample that can be measured. Ex: height, weight, IQ, hair color and pulse rate are some of the many variables that can be measured for people

**DATA:** Values of variables that have been observed
- **Types of data**
  - Qualitative (or "categorical") data are descriptive but not numeric. Ex: your gender, your birthplace, the color of an automobile
  - Quantitative data take numeric values
  - Discrete data take counting numbers (0, 1, 2, …) as values, usually representing things that can be counted. Ex: the number of fleas on a dog, the number of times a professor is late in a semester
  - Continuous data can take a range of numeric values, not just counting numbers; Ex: the height of a child, the weight of a bag of beans, the amount of time a professor is late
- **Levels of measurement**
  - **Qualitative data** can be measured at the:
    - **Nominal level:** Values are just names, without any order; Ex: color of a car, major in college
    - **Ordinal level:** Values have some natural order; ex: high school class (freshman/sophomore/junior/senior), military rank
  - **Quantitative data** can be measured at the:
    - **Interval level:** Numeric data with no natural zero point; intervals (differences) are meaningful, but ratios are not; Ex: temperature in Fahrenheit degrees; 80°F is 20°F hotter than 60°F, but it is not 150% as hot
    - **Ratio level:** Numeric data for which there is a true zero; both intervals and ratios are meaningful; Ex: weight, length, duration, most physical properties

**STATISTIC:** A numeric measure computed from sample data, used to describe the sample and to estimate the corresponding population parameter

**PARAMETER:** A numeric measure that describes a population; parameters are usually not computed, but are inferred from sample statistics

## FREQUENCY DISTRIBUTION

Provides the frequency (number of times observed) of each value of a variable

**Table 1:** Students in a driving class are polled regarding number of accidents they've had:

| (# of accidents) x | (frequency) f | (relative frequency) RF |
|---|---|---|
| 5 | 3 | 0.0526 |
| 4 | 2 | 0.0351 |
| 3 | 9 | 0.1579 |
| 2 | 15 | 0.2632 |
| 1 | 16 | 0.2807 |
| 0 | 12 | 0.2105 |

**GROUPED FREQUENCY DISTRIBUTION:** Values of the variable are grouped into classes

**Table 2:** The scores on a midterm exam are grouped into classes:

| class | f | cumulative frequency |
|---|---|---|
| 90–99 | 4 | 80 |
| 80–89 | 18 | 76 |
| 70–79 | 31 | 58 |
| 60–69 | 19 | 27 |
| 50–59 | 7 | 8 |
| 40–49 | 1 | 1 |

**RELATIVE FREQUENCY DISTRIBUTION:** Each frequency is divided by the total number of observations to produce the proportion or percentage of the data set having that value; Ex: third column of **Table 1**

**CUMULATIVE FREQUENCY DISTRIBUTION:** Frequencies count all observations at a particular value or class and all those less; Ex: third column of **Table 2**

## MEASURES OF DISPERSION

**SUM OF SQUARES (SS):** The sum of squared deviations from the mean
- **Population SS:** $\sum(x_i - \mu_x)^2$ or $\sum x_i^2 - \frac{(\sum x_i)^2}{N}$
- **Sample SS:** $\sum(x_i - \bar{x})^2$ or $\sum x_i^2 - \frac{(\sum x_i)^2}{n}$

**VARIANCE:** The average of square differences between observations and their mean
- **Population variance:** $\sigma^2 = \frac{1}{N}\sum_{i=1}^{N}(x_i - \mu)^2$
- **Sample variance:** $s_x = \frac{1}{n-1}\sum_{i=1}^{n}(x_i - \bar{x})^2$
- Variances for grouped data:
  - **Population:** $\sigma_x = \frac{1}{N}\sum_{i=1}^{K}f_i(m_i - \mu)^2$
  - **Sample:** $s_x = \frac{1}{n-1}\sum_{i=1}^{K}f_i(m_i - \bar{x})^2$

**STANDARD DEVIATION:** The square root of the variance; unlike variance, it has the same units as the original data and is more commonly used:

Ex: Pop. S.D.: $\sigma = \sqrt{\frac{1}{N}\sum_{i=1}^{N}(x_i - \mu)^2}$

**STANDARD SCORES:** Also known as Z-scores; the standard score of a value is the directed number of standard deviations from the mean at which the value is found; that is, $z = \frac{x - \mu}{\sigma}$
- A positive z-score indicates a value greater than the mean; a negative z-score indicates a value less than the mean; a z-score of zero indicates the mean value
- Converting every value in a data set or distribution to a z-score is called standardization; once a data set or distribution has been standardized, it has a new mean $\mu = 0$, and a new standard deviation $\sigma = 1$

## MEASURES OF CENTRAL TENDENCY

**MEAN:** Most commonly used measure of central tendency, usually meant by "average"; sensitive to extreme values

**POPULATION MEAN** $\mu = \frac{1}{N}\sum_{i=1}^{N}x_i$    **SAMPLE MEAN** $\bar{x} = \frac{1}{n}\sum_{i=1}^{n}x_i$

- **Trimmed mean:** Computed discarding some number of the highest and lowest values; less sensitive than ordinary mean
- **Weighted mean:** $\frac{\sum w_i x_i}{\sum w_i}$  Computed with a weight multiplied to each value, making some values influence the mean more heavily than others

**MEDIAN:** Value that divides the set so the same number of observations lie on each side of it; less sensitive to extreme values; for an odd number of values, it is the middle value; for an even number, it is the average of the middle two; Ex: In **Table 1**, the median is the average of the 29th observation, or 2

**MODE:** Observation that occurs with the greatest frequency; Ex: In **Table 1**, the mode is 1

## GRAPHING TECHNIQUES

**BAR GRAPH:** A graph that uses bars to indicate the frequency of occurrence of observations
- **Histogram:** A bar graph used with quantitative, continuous variables

**FREQUENCY CURVE:** A graph representing a frequency distribution in the form of a continuous line that traces a histogram
- **Cumulative frequency curve:** A continuous line that traces a histogram where bars in all the lower classes are stacked up in the adjacent higher class; cannot have a negative slope
- **Symmetric curve:** The frequency curve is unchanged if rotated around its center; median = mean
- **Normal curve:** Bell-shaped curve; symmetric
- **Skewed curve:** Deviates from symmetry; frequency curve is shifted with a longer "tail" to the left (mean < median) or to the right (mean > median)


NORMAL CURVE


SKEWED CURVE — LEFT

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**BM King**

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