



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 (frequency) f	(relative frequency) rf
5	0.0526
4	0.0511
3	0.1579
2	0.2632
1	0.2897
0	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
70-79	4	30
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 CENTRAL TENDENCY

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

POPULATION MEAN **SAMPLE MEAN**

$$\mu = \frac{1}{N} \sum_{i=1}^N x_i \quad \bar{x} = \frac{1}{n} \sum_{i=1}^n x_i$$

• **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.

MEASURES OF DISPERSION

SUM OF SQUARES (SS): The sum of squared deviations from the mean.

$$\text{Population SS: } \sum (x_i - \mu)^2 \text{ or } \sum x_i^2 - \frac{(\sum x_i)^2}{N}$$

$$\text{Sample SS: } \sum (x_i - \bar{x})^2 \text{ or } \sum x_i^2 - \frac{(\sum x_i)^2}{n}$$

VARIANCE: The average of square differences between observations and their mean.

$$\text{Population variance: } \sigma^2 = \frac{1}{N} \sum_{i=1}^N (x_i - \mu)^2$$

$$\text{Sample variance: } s^2 = \frac{1}{n-1} \sum_{i=1}^n (x_i - \bar{x})^2$$

• **Variances for grouped data:**

$$\text{Population: } \sigma^2 = \frac{1}{N} \sum_{i=1}^N f_i (m_i - \mu)^2$$

$$\text{Sample: } s^2 = \frac{1}{n-1} \sum_{i=1}^n f_i (m_i - \bar{x})^2$$

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

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

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 $\sigma = 1$.

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).



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