



# 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:

x	f	rf
5	3	0.0526
4	2	0.0351
3	9	0.1579
2	15	0.2632
1	16	0.2807
0	12	0.2085

**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 CENTRAL TENDENCY

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

**POPULATION MEAN**      **SAMPLE MEAN**

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

**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

**Population SS:**  $\sum (x_i - \mu)^2$  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:**  $s^2 = \frac{1}{n-1} \sum_{i=1}^n (x_i - \bar{x})^2$

**Variances for grouped data:**

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

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

**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  $\sigma = 1$

### 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

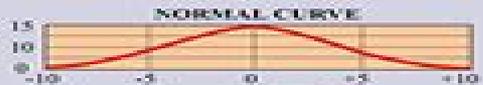
**FREQUENCY CURVE:** A graph representing a frequency distribution in the form of a continuous line that traces a histogram

**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)



APRINA

# Statistics Study Guide

**Michael A. Fligner, David S.  
Moore, George McCabe**



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### **Table of Contents Statistics Study Guide**

1. Understanding the eBook Statistics Study Guide
  - The Rise of Digital Reading Statistics Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Statistics Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Statistics Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Statistics Study Guide
  - Personalized Recommendations
  - Statistics Study Guide User Reviews and Ratings
  - Statistics Study Guide and Bestseller Lists
5. Accessing Statistics Study Guide Free and Paid eBooks

- Statistics Study Guide Public Domain eBooks
- Statistics Study Guide eBook Subscription Services
- Statistics Study Guide Budget-Friendly Options
- 6. Navigating Statistics Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Statistics Study Guide Compatibility with Devices
  - Statistics Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Statistics Study Guide
  - Highlighting and Note-Taking Statistics Study Guide
  - Interactive Elements Statistics Study Guide
- 8. Staying Engaged with Statistics Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Statistics Study Guide
- 9. Balancing eBooks and Physical Books Statistics Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Statistics Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Statistics Study Guide
  - Setting Reading Goals Statistics Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Statistics Study Guide
  - Fact-Checking eBook Content of Statistics Study Guide
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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