



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	0.0315
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.

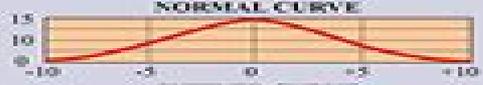
FREQUENCY CURVE: A graph representing a frequency distribution in the form of a continuous line that traces a histogram.

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).



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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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