



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).



Study Guide T A Concise Managerial Statistics

Pallant, Julie



Study Guide T A Concise Managerial Statistics:

Multivariate Analysis Klaus Backhaus, Bernd Erichson, Sonja Gensler, Rolf Weiber, Thomas Weiber, 2025-08-23 We live in a world driven by data Yet data alone holds no value unless we can extract meaningful insights from it Multivariate data analysis provides the essential tools to unlock this potential This book offers an easy to understand introduction to the most important methods of multivariate data analysis With a strong application focus it requires only basic knowledge of mathematics and statistics The methods are demonstrated through numerical examples and illustrated with detailed case studies Additionally the introductory chapter refreshes key statistical fundamentals relevant to all methods covered in the book For the 3rd edition all chapters have been thoroughly reviewed and recalculated using the latest version of IBM SPSS Contents Introduction to empirical data analysis Regression analysis Analysis of variance Discriminant analysis Logistic regression Contingency analysis Factor analysis Cluster analysis Conjoint analysis The original German version is now available in its 18th edition In 2015 this book was honored by the Federal Association of German Market and Social Researchers as the textbook that has shaped market research and practice in German speaking countries A Chinese version is available in its 3rd edition On the website [www.multivariate methods info](http://www.multivariate-methods.info) the authors provide examples in Excel and R as well as additional material to facilitate the understanding of the different multivariate methods In addition interactive flashcards are available to the reader for reviewing selected focal points Download the Springer Nature Flashcards App and use exclusive content to test your knowledge

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Spss Survival Manual Pallant, Julie, 2013-05-01 This bestselling guide covering up to version 21 of the SPSS software guides you through the entire research process

EBOOK: SPSS Survival Manual Julie Pallant, 2016-05-16 The SPSS Survival Manual throws a lifeline to students and researchers grappling with this powerful data analysis software In her bestselling guide Julie Pallant guides you through the entire

research process helping you choose the right data analysis technique for your project From the formulation of research questions to the design of the study and analysis of data to reporting the results Julie discusses basic and advanced statistical techniques She outlines each technique clearly with step by step procedures for performing the analysis a detailed guide to interpreting data output and an example of how to present the results in a report For both beginners and experienced users in psychology sociology health sciences medicine education business and related disciplines the SPSS Survival Manual is an essential text Illustrated with screen grabs examples of output and tips it is supported by a website with sample data and guidelines on report writing This sixth edition is fully revised and updated to accommodate changes to IBM SPSS procedures screens and output It covers new SPSS tools for generating graphs and non parametric statistics importing data and calculating dates

The Concise Encyclopedia of Statistics Yadolah Dodge,2008-04-15 The Concise Encyclopedia of Statistics presents the essential information about statistical tests concepts and analytical methods in language that is accessible to practitioners and students of the vast community using statistics in medicine engineering physical science life science social science and business economics The reference is alphabetically arranged to provide quick access to the fundamental tools of statistical methodology and biographies of famous statisticians The more than 500 entries include definitions history mathematical details limitations examples references and further readings All entries include cross references as well as the key citations The back matter includes a timeline of statistical inventions This reference will be an enduring resource for locating convenient overviews about this essential field of study

Meetings that Matter David Hon,1980

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Republic of Uzbekistan International Monetary,International Monetary Fund. Statistics Dept.,2023-12-22 A technical assistance mission assisted the Statistics Agency under the President of the Republic of Uzbekistan SA in improving source data for compiling annual and quarterly GDP It did so by reviewing and discussing data collection forms and statistical questionnaires The mission provided recommendations on simplifying some survey design and methods to achieve better data quality The mission also reviewed the compilation of GDP components and provided recommendations for improving the estimation of trade margins at constant prices These improvements to data and methods will improve the understanding of the Uzbekistan economy both for domestic policymaking and international surveillance

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Modern Principles of Economics Tyler Cowen,Alex Tabarrok,2009-10-09 From the authors See the Invisible Hand Understand Your World That s the tagline of Modern Principles and our teaching philosophy Nobel laureate Vernon Smith put it this way At the heart of economics is a scientific mystery a scientific mystery as deep fundamental and inspiring as that of the expanding universe or the forces that bind matter How is order produced from freedom of choice We want students to be inspired by this mystery and by how economists have begun to solve it Thus we show how markets interconnect and respond in surprising ways to changes in resources and preferences Consider for example how markets respond to a reduction in the supply of oil Of course the price of oil increases giving consumers an incentive to use less and suppliers an incentive to discover more But an increase in the price of oil also encourages Brazilian sugar cane farmers to devote more of their production to ethanol and less to sugar thereby driving up the price of sugar An increase in the price of sugar means a reduction in the quantity of candy demanded So one way the market responds to a reduction in the supply of oil is by encouraging consumers to eat less candy In analyses like this we teach students to see the invisible hand and in so doing to understand their world Similarly we offer a unique and simple proof of the amazing invisible hand theorem that without any central direction competitive markets allocate production across firms in a way that minimizes aggregate costs To understand their world students must understand when self interest promotes the social interest and when it does not Thus Modern Principles has in depth analyses of externalities public goods and ethical issues with market incomes and trade Moreover we always discuss economic theory in the context of real world problems such as the decline of the ocean fisheries climate change and the shortage of human organs for transplant Rehabilitation Record ,1971

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