

# Basic Statistics Formulas

## Population Measures

$$\text{Mean } \mu = \frac{1}{n} \sum x_i \quad (1)$$

$$\text{Variance } \sigma^2 = \frac{1}{n} \sum (x_i - \bar{x})^2 \quad (2)$$

$$\text{Standard Deviation } \sigma = \sqrt{\frac{1}{n} \sum (x_i - \bar{x})^2} \quad (3)$$

## Sampling

$$\text{Sample mean } \bar{x} = \frac{1}{n} \sum x_i \quad (4)$$

$$\text{Sample variance } s^2 = \frac{1}{n-1} \sum (x_i - \bar{x})^2 \quad (5)$$

$$\text{Std. Deviation } s = \sqrt{\frac{1}{n-1} \sum (x_i - \bar{x})^2} \quad (6)$$

$$z\text{-score } z = \frac{\bar{x} - \mu}{\sigma} \quad (7)$$

$$\text{Correlation } r =$$

$$\frac{1}{n-1} \sum_{i=1}^n \left( \frac{(x_i - \bar{x})}{s_x} \right) \left( \frac{(y_i - \bar{y})}{s_y} \right) \quad (8)$$

## Linear Regression

$$\text{Line } \hat{y} = a + bx \quad (9)$$

$$b = r \frac{s_y}{s_x}, a = \bar{y} - b\bar{x} \quad (10)$$

$$s = \sqrt{\frac{1}{n-2} \sum_{i=1}^n (y_i - \hat{y})^2} \quad (11)$$

$$SE_b = \frac{s}{\sqrt{\sum_{i=1}^n (x_i - \bar{x})^2}} \quad (12)$$

$$\text{To test } H_0: b = 0, \text{ use } t = \frac{b}{SE_b} \quad (13)$$

$$CI = b \pm t^* SE_b \quad (14)$$

## Probability

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B) \quad (15)$$

$$P(\text{not } A) = 1 - P(A) \quad (16)$$

$$P(A \text{ and } B) = P(A)P(B) \text{ (independent)} \quad (17)$$

$$P(B|A) = P(A \text{ and } B)/P(A) \quad (18)$$

$$0! = 1; n! = 1 \times 2 \times 3 \cdots \times (n-1) \times n \quad (19)$$

$$\binom{n}{k} = \frac{n!}{k!(n-k)!} \quad (20)$$

Binomial Distribution :

$$P(X = k) = \binom{n}{k} p^k (1-p)^{n-k} \quad (21)$$

$$\mu = np, \sigma = \sqrt{np(1-p)} \quad (22)$$

## One-Sample z-statistic

$$\text{To test } H_0: \mu = \mu_0 \text{ use } z = \frac{\bar{x} - \mu_0}{\sigma/\sqrt{n}} \quad (23)$$

$$\text{Confidence Interval for } \mu = \bar{x} \pm z^* \frac{\sigma}{\sqrt{n}} \quad (24)$$

$$\text{Margin of Error } ME = z^* \frac{\sigma}{\sqrt{n}} \quad (25)$$

$$\text{Minimum sample size } n \geq \left[ \frac{z^* \sigma}{ME} \right]^2 \quad (26)$$

## One-Sample t-statistic

$$SEM = \frac{s_y}{\sqrt{n}}, t = \frac{\bar{x} - \mu}{s_y/\sqrt{n}} \quad (27)$$

$$\text{Confidence Interval} = \bar{x} \pm t^* \frac{s_y}{\sqrt{n}} \quad (28)$$

## Two-Sample t-statistic

$$t = \frac{\bar{x}_1 - \bar{x}_2}{\sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}} \quad (29)$$

$$\text{Conf. Interval} = (\bar{x}_1 - \bar{x}_2) \pm t^* \sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}} \quad (30)$$

## Sample Proportions

$$\mu_p = p, \sigma_p = \sqrt{\frac{p(1-p)}{n}} \quad (31)$$

$$\text{Conf. Int.} = \hat{p} \pm z^*(SE) \quad (32)$$

$$SE = \sqrt{\frac{\hat{p}(1-\hat{p})}{n}} \quad (33)$$

$$\text{sample size } n \geq \left[ \frac{z^*}{ME} \right]^2 p^*(1-p^*) \quad (34)$$

$$\text{To test } H_0: p = p_0, \text{ use } z = \frac{\hat{p} - p_0}{\sqrt{\frac{p_0(1-p_0)}{n}}} \quad (35)$$

## Two-Sample Proportions

$$SE = \sqrt{\frac{\hat{p}_1(1-\hat{p}_1)}{n_1} + \frac{\hat{p}_2(1-\hat{p}_2)}{n_2}} \quad (36)$$

$$CI = (\hat{p}_1 - \hat{p}_2) \pm z^*(SE) \quad (37)$$

$$\text{To test } H_0: p_1 = p_2, \text{ use} \quad (38)$$

$$z = \frac{\hat{p}_1 - \hat{p}_2}{\sqrt{\hat{p}(1-\hat{p}) \left( \frac{1}{n_1} + \frac{1}{n_2} \right)}} \quad (39)$$

$$\hat{p} = \frac{X_1 + X_2}{n_1 + n_2}, X_i = \text{successes} \quad (40)$$

## Chi-Square Statistic

$$\chi^2 = \sum_{i=1}^n \frac{(o_i - e_i)^2}{e_i} \quad (41)$$

$o_i$  = observed,  $e_i$  = expected

## Central Limit Theorem

$$\sigma_{\bar{x}} \rightarrow \frac{\sigma}{\sqrt{n}} \text{ as } n \rightarrow \infty \quad (42)$$

# Basic Statistics

**James E. De Muth**



## **Basic Statistics:**

Basic Statistics Olive Jean Dunn, Virginia A. Clark, 2009-08-11 New Edition of a Classic Guide to Statistical Applications in the Biomedical Sciences In the last decade there have been significant changes in the way statistics is incorporated into biostatistical medical and public health research Addressing the need for a modernized treatment of these statistical applications Basic Statistics Fourth Edition presents relevant up to date coverage of research methodology using careful explanations of basic statistics and how they are used to address practical problems that arise in the medical and public health settings Through concise and easy to follow presentations readers will learn to interpret and examine data by applying common statistical tools such as sampling random assignment and survival analysis Continuing the tradition of its predecessor this new edition outlines a thorough discussion of different kinds of studies and guides readers through the important related decision making processes such as determining what information is needed and planning the collections process The book equips readers with the knowledge to carry out these practices by explaining the various types of studies that are commonly conducted in the fields of medical and public health and how the level of evidence varies depending on the area of research Data screening and data entry into statistical programs is explained and accompanied by illustrations of statistical analyses and graphs Additional features of the Fourth Edition include A new chapter on data collection that outlines the initial steps in planning biomedical and public health studies A new chapter on nonparametric statistics that includes a discussion and application of the Sign test the Wilcoxon Signed Rank test and the Wilcoxon Rank Sum test and its relationship to the Mann Whitney U test An updated introduction to survival analysis that includes the Kaplan Meier method for graphing the survival function and a brief introduction to tests for comparing survival functions Incorporation of modern statistical software such as SAS Stata SPSS and Minitab into the presented discussion of data analysis Updated references at the end of each chapter Basic Statistics Fourth Edition is an ideal book for courses on biostatistics medicine and public health at the upper undergraduate and graduate levels It is also appropriate as a reference for researchers and practitioners who would like to refresh their fundamental understanding of statistical techniques

## **Basic Statistics and Epidemiology**

Antony Stewart, 2010 This straightforward primer in basic statistics emphasizes its practical use in epidemiology and public health providing understanding of essential topics such as study design data analysis and statistical methods used in the execution of medical research This new edition is substantially revised and includes entirely new material on statistical power and sample size Clearly worded and assuming no prior knowledge it gives full step by step guidance on performing statistical calculations It contains numerous examples and exercises with detailed answers to help readers grasp the main point

*Basic Statistics* Seemon Thomas, 2014 BASIC STATISTICS is an introductory text It outlines an elementary one semester course designed to expose students to many statistical ideas and rules that underlie statistical reasoning The text presents a thorough step by step development of fundamental principles It reflects the changes that have taken place in

recent years in statistical thinking and in the teaching of statistics This book provides the most comprehensive and the most mathematically oriented presentation of elementary concepts and methods in the field of statistics Every major techniques of numerical data handling using MS Excel is completely detailed Although the primary focus of the book is on a mathematical development of the subject it also contains variety of examples and exercises that are oriented toward real world applications

*Basic Statistics and Pharmaceutical Statistical Applications, Second Edition* James E. De Muth, 2006-05-10 The first edition of Basic Statistics and Pharmaceutical Statistical Applications successfully provided a practical easy to read basic statistics book This second edition not only updates the previous edition but expands coverage in the area of biostatistics and how it relates to real world professional practice Taking you on a roller coaster ride through the world of statistics Dr De Muth clearly details the methodology necessary to summarize data and make informed decisions about observed outcomes What s new or different in the Second Edition New chapters cover Measures of association primarily with nominal and ordinal data and and more than 15 tests Survival statistics including actuarial analysis and an introduction to multiple regression with survival data using proportional hazards regression An introduction to the topic of evidence based practice with discussions of sensitivity and specificity predictive values and likelihood ratios Odds ratios and relative risk ratios that provide valuable information for dealing with probability odds and risk New sections address Power and sample size determination for two sample Z tests of proportions Clinical equivalence and noninferiority studies process capability and tolerance limits Methods for assessing repeatability and reproducibility Expanded information includes Chi square repeated measures designs Latin Square designs nine multiple comparison tests and outlier testing Inverse prediction with linear regression handling of multiple data points at different levels of independent variable and assessment of parallelism of slopes for two samples Additional types of bivariate correlations and various assessments for independence and randomness More nonparametric tests including new information on post hoc comparisons for a significant Kruskal Wallis test the Kolmogorov Smirnov goodness of fit test and the Anderson Darling test as well as runs and range tests Eight new tables useful for the interpretation of some of the new inferential statistics De Muth provides concrete examples that enable you to effectively manage information in your day to day problem solving and reporting of findings By avoiding heavy duty mathematics and theory even the mathematically challenged can benefit and increase their confidence in using statistics procedures Basic Statistics and Pharmaceutical Statistical Applications James E. De Muth, 2014-04-28 Building on its best selling predecessors Basic Statistics and Pharmaceutical Statistical Applications Third Edition covers statistical topics most relevant to those in the pharmaceutical industry and pharmacy practice It focuses on the fundamentals required to understand descriptive and inferential statistics for problem solving Incorporating *Basic Statistics* B L Agarwal, 2006 Basic Statistics Covers A Wide Range Of Statistical Theory Taught In Almost All Faculties Theory Followed By Relevant Formulae Is Fully Explicated Through Solved Numerical Problems Mathematical Derivations And Proofs Of The Formulae Are Largely Absent The Book

Presupposes No Advance Knowledge Of Mathematics Basic Statistics Fully Covers The Syllabi Of Statistics Courses Running In Various Universities In The Faculties Of Commerce Arts Master Of Business Management Agriculture Home Science Pharmacy And For Students Appearing In C A P E I I C W A Inter Etc This Book Provides Exhaustive Matter In A Simple Lucid And Exact Manner For Inquisitive Minds Fourth Edition Of Basic Statistics Is Fully Revised And Enlarged The Addition Of Two Chapters Entitled Research Processes And Experimental Research Designs Has Made The Book Complete In Its Own Sense Variety Of Large Number Of Theory And Numerical Questions At The End Of Each Chapter Is A Boon To Achieve One S Own Goal A Reader Will Find The Book Very Useful And Better Than His Expectations Basic Statistics for Educational Research Sumita S. Kaufhold, John A. Kaufhold, 2013-07-19 This is an beginning book on statistics and research It could be used by undergraduate students and graduate students alike The book covers several methods of research including correlational and experimental methods Rudiments of descriptive statistics and inferential statistics are also presented

**Outline of Basic Statistics** John E. Freund, Frank J. Williams, 2010-01-01 Handy guide includes a 70 page outline of essential statistical formulas covering grouped and ungrouped data finite populations probability nonparametric tests analysis of variance and more plus over 1 000 clear concise definitions of statistical terms Should be part of the library of anyone using statistical methods American Library Association 1966 edition Basic Statistics Lab Mr. Rohit Manglik, 2024-04-01 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

**Interpreting Basic Statistics** Keith S. Cox, Zealure Holcomb, 2021-09-30 Interpreting Basic Statistics gives students valuable practice in interpreting statistical reporting as it actually appears in peer reviewed journals Features of the ninth edition Covers a broad array of basic statistical concepts including topics drawn from the New Statistics Up to date journal excerpts reflecting contemporary styles in statistical reporting Strong emphasis on data visualization Ancillary materials include data sets with almost two hours of accompanying tutorial videos which will help students and instructors apply lessons from the book to real life scenarios About this book Each of the 63 exercises in the book contain three central components 1 an introduction to a statistical concept 2 a brief excerpt from a published research article that uses the statistical concept and 3 a set of questions with answers that guides students into deeper learning about the concept The questions on the journal excerpts promote learning by helping students interpret information in tables and figures perform simple calculations to further their interpretations critique data reporting techniques and evaluate procedures used to collect data The questions in each exercise are divided into two parts 1 Factual Questions and 2 Questions for Discussion The Factual Questions require careful reading for details while the discussion questions show that interpreting statistics is more than a mathematical exercise These questions require students to apply good judgment as well as statistical reasoning in

arriving at appropriate interpretations Each exercise covers a limited number of topics making it easy to coordinate the exercises with lectures or a traditional statistics textbook

**Basic Statistics for Risk Management in Banks and Financial Institutions** Arindam Bandyopadhyay,2022 This book demonstrates how banks and financial institutions can apply many simple but effective statistical techniques to analyze risks they face in business and safeguard themselves from potential vulnerability

**Beyond Basic Statistics** Kristin H. Jarman,2015-05-04 Features basic statistical concepts as a tool for thinking critically wading through large quantities of information and answering practical everyday questions Written in an engaging and inviting manner Beyond Basic Statistics Tips Tricks and Techniques Every Data Analyst Should Know presents the more subjective side of statistics the art of data analytics Each chapter explores a different question using fun common sense examples that illustrate the concepts methods and applications of statistical techniques Without going into the specifics of theorems propositions or formulas the book effectively demonstrates statistics as a useful problem solving tool In addition the author demonstrates how statistics is a tool for thinking critically wading through large volumes of information and answering life s important questions Beyond Basic Statistics Tips Tricks and Techniques Every Data Analyst Should Know also features Plentiful examples throughout aimed to strengthen readers understanding of the statistical concepts and methods A step by step approach to elementary statistical topics such as sampling hypothesis tests outlier detection normality tests robust statistics and multiple regression A case study in each chapter that illustrates the use of the presented techniques Highlights of well known shortcomings that can lead to false conclusions An introduction to advanced techniques such as validation and bootstrapping Featuring examples that are engaging and non application specific the book appeals to a broad audience of students and professionals alike specifically students of undergraduate statistics managers medical professionals and anyone who has to make decisions based on raw data or compiled results

Basic Statistics Tenko Raykov,George A. Marcoulides,2012-10-04 Basic Statistics provides an accessible and comprehensive introduction to statistics using the free state of the art powerful software program R This book is designed to both introduce students to key concepts in statistics and to provide simple instructions for using R This concise book Teaches essential concepts in statistics assuming little background knowledge on the part of the readerIntroduces students to R with as few sub commands as possible for ease of useProvides practical examples from the educational behavioral and social sciences With clear explanations of statistical processes and step by step commands in R Basic Statistics will appeal to students and professionals across the social and behavioral sciences

A Textbook of Basic Statistics ,1987 *Basic Statistics* Vincent E. Cangelosi,Phillip H. Taylor,Philip F. Rice,1976

**Elementary Statistics for Geographers** James E. Burt,Gerald M. Barber,David L. Rigby,2009-03-19 Introduces the techniques and concepts of statistics in human and physical geography This book explains not only how to apply quantitative tools but also why and how they work It helps students gain important skills for utilizing conventional and spatial statistics in their own research as well as for critically evaluating the work of others

Alarming! The Chasm Separating Basic Statistics Education from its Necessities William J. Adams, 2013-05 The fairly large sample of current basic statistics books I gave thought to recently may in my view be characterized as number pushers with a large number of illustrations intended to convey a sense of the importance of statistics to the study of real world problems What's wrong with that Nothing provided that what I submit to be the necessities of statistics education are given the attention they warrant are not smothered by glitz overwhelming attention to number pushing do not receive short shrift or are not mentioned at all Am I being too critical I invite you to give thought to fifteen issues questions that are the core of the aforementioned chasm and render your verdict Food for thought in support of the issues questions raised along with answers discussion are included Many students and those who apply statistics to their fields of interest subscribe to the view that to apply statistics to a problem situation all you need do is throw your data into a computer and let it do its thing The further they travel along this road of thought the more we can expect misunderstanding of statistics and when it comes to publication statistical junk I believe that the only way to change the direction of this road of thought is to incorporate into our teaching of basic statistics what is feasible of the necessities of statistics education For further discussion of the necessities of basic statistics education I recommend the book I coauthored with my colleagues Irwin Kabus and Mitchell Preiss Statistics Basic Principles and Applications 2nd ed Kendall Hunt Publishing Co 2000 or the revised 2nd ed W J Adams Xlibris 2009 Basic Statistics Rand R. Wilcox, 2009-07-15 This introductory statistics textbook for non statisticians covers basic principles concepts and methods routinely used in applied research What sets this text apart is the incorporation of the many advances and insights from the last half century when explaining basic principles These advances provide a foundation for vastly improving our ability to detect and describe differences among groups and associations among variables and provide a deeper and more accurate sense of when basic methods perform well and when they fail Assuming no prior training Wilcox introduces students to basic principles and concepts in a simple manner that makes these advances and insights as well as standard ideas and methods easy to understand and appreciate **Basic Statistics** Chris Spatz, James O. Johnston, 1989 Learn statistical reasoning and problem solving from a master Chris Spatz uses a wealth of examples from the social and behavioral sciences education nursing allied health and business fields as well as examples from everyday life to help you grasp statistics and succeed in the course Praised for his clear explanations Spatz shows you how to start with a data set identify the questions it can answer determine appropriate statistical procedures carry them out and then using plain English tell the story the data reveal You'll be on the way to statistical understanding before you know it Book jacket

**Understanding and Applying Basic Statistical Methods Using R** Rand R. Wilcox, 2016-06-07 Features a straightforward and concise resource for introductory statistical concepts methods and techniques using R Understanding and Applying Basic Statistical Methods Using R uniquely bridges the gap between advances in the statistical literature and methods routinely used by non statisticians Providing a conceptual basis for understanding the relative merits and

applications of these methods the book features modern insights and advances relevant to basic techniques in terms of dealing with non normality outliers heteroscedasticity unequal variances and curvature Featuring a guide to R the book uses R programming to explore introductory statistical concepts and standard methods for dealing with known problems associated with classic techniques Thoroughly class room tested the book includes sections that focus on either R programming or computational details to help the reader become acquainted with basic concepts and principles essential in terms of understanding and applying the many methods currently available Covering relevant material from a wide range of disciplines Understanding and Applying Basic Statistical Methods Using R also includes Numerous illustrations and exercises that use data to demonstrate the practical importance of multiple perspectives Discussions on common mistakes such as eliminating outliers and applying standard methods based on means using the remaining data Detailed coverage on R programming with descriptions on how to apply both classic and more modern methods using R A companion website with the data and solutions to all of the exercises Understanding and Applying Basic Statistical Methods Using R is an ideal textbook for an undergraduate and graduate level statistics courses in the science and or social science departments The book can also serve as a reference for professional statisticians and other practitioners looking to better understand modern statistical methods as well as R programming

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