

# 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## 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

$$\hat{p}_p = \hat{p}, \sigma_{\hat{p}} = \sqrt{\frac{\hat{p}(1-\hat{p})}{n}} \quad (31)$$

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

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

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

$$\text{To test } H_0 : p = p_0, \text{ use } z = \frac{\hat{p} - p_0}{\sqrt{\hat{p}_0(1-\hat{p}_0)/n}} \quad (35)$$

## Two-Sample Proportions

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

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

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

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

$$\hat{p} = \frac{\bar{X}_1 + \bar{X}_2}{n_1 + n_2}, \bar{X}_i = \text{successes} \quad (40)$$

## Chi-Square Statistic

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

$o_i = \text{observed}, e_i = \text{expected}$

## Central Limit Theorem

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

## Statistical Mathematics

**Alexander Craig Aitken**

## Statistical Mathematics:

**Mathematical Methods of Statistics** Harald Cramér, 1999-04-12 Harald Cramér's classic synthesis of statistical mathematical theory is an invaluable resource for students and practitioners alike. In the 1930s as British and American statisticians were developing the science of statistical inference French and Russian probabilists transformed the classical calculus of probability into a rigorous and pure mathematical theory. In this incisive and authoritative book Harald Cramér unites these two major lines of development providing a masterly exposition of the mathematical methods of modern statistics that set the standard in the field still followed today. Requiring only a working knowledge of undergraduate mathematics this self-contained book begins with an introduction to the fundamental concept of a distribution and of integration with respect to a distribution. It goes on to discuss the general theory of random variables and probability distributions the theory of sampling statistical estimation and tests of significance. Blending lucid and accessible writing with mathematical rigor *Mathematical Methods of Statistics* belongs on the shelf of anyone interested in statistical methods and remains the standard reference on the subject today.

**Mathematical Statistics** Keith Knight, 1999-11-24 Traditional texts in mathematical statistics can seem to some readers heavily weighted with optimality theory of the various flavors developed in the 1940s and 50s and not particularly relevant to statistical practice. *Mathematical Statistics* stands apart from these treatments. While mathematically rigorous its focus is on providing a set of useful tools that allow students to understand the theoretical underpinnings of statistical methodology. The author concentrates on inferential procedures within the framework of parametric models but acknowledging that models are often incorrectly specified he also views estimation from a non parametric perspective. Overall *Mathematical Statistics* places greater emphasis on frequentist methodology than on Bayesian but claims no particular superiority for that approach. It does emphasize however the utility of statistical and mathematical software packages and includes several sections addressing computational issues. The result reaches beyond nice mathematics to provide a balanced practical text that brings life and relevance to a subject so often perceived as irrelevant and dry.

**Statistical Mathematics. (Third Edition.)** Alexander Craig AITKEN, 1944 **Mathematical Statistics** Johann Pfanzagl, 2017-10-23 This book presents a detailed description of the development of statistical theory. In the mid twentieth century the development of mathematical statistics underwent an enduring change due to the advent of more refined mathematical tools. New concepts like sufficiency superefficiency adaptivity etc. motivated scholars to reflect upon the interpretation of mathematical concepts in terms of their real world relevance. Questions concerning the optimality of estimators for instance had remained unanswered for decades because a meaningful concept of optimality based on the regularity of the estimators the representation of their limit distribution and assertions about their concentration by means of Anderson's Theorem was not yet available. The rapidly developing asymptotic theory provided approximate answers to questions for which non asymptotic theory had found no satisfying solutions. In four engaging essays this book presents a

detailed description of how the use of mathematical methods stimulated the development of a statistical theory Primarily focused on methodology questionable proofs and neglected questions of priority the book offers an intriguing resource for researchers in theoretical statistics and can also serve as a textbook for advanced courses in statisticc **Statistical Mathematics** Alexander Craig Aitken,1945 **The Fundamental Principles of Mathematical Statistics** Hugh Herbert Wolfenden,1942 **All of Statistics** Larry Wasserman,2010-12-01 Taken literally the title All of Statistics is an exaggeration But in spirit the title is apt as the book does cover a much broader range of topics than a typical introductory book on mathematical statistics This book is for people who want to learn probability and statistics quickly It is suitable for graduate or advanced undergraduate students in computer science mathematics statistics and related disciplines The book includes modern topics like nonparametric curve estimation bootstrapping and clas sification topics that are usually relegated to follow up courses The reader is presumed to know calculus and a little linear algebra No previous knowledge of probability and statistics is required Statistics data mining and machine learning are all concerned with collecting and analyzing data For some time statistics research was conducted in statistics departments while data mining and machine learning re search was conducted in computer science departments Statisticians thought that computer scientists were reinventing the wheel Computer scientists thought that statistical theory didn t apply to their problems Things are changing Statisticians now recognize that computer scientists are making novel contributions while computer scientists now recognize the generality of statistical theory and methodology Clever data mining algo rithms are more scalable than statisticians ever thought possible Formal sta tistical theory is more pervasive than computer scientists had realized **Statistics: A Very Short**

**Introduction** David J. Hand,2008-10-23 Statistics has evolved into an exciting discipline which uses deep theory and powerful software to shed light on the world around us from clinical trials in medicine to economics sociology and countless other subjects vital to understanding modern life This Very Short Introduction explores and explains how statistics works today **Introduction to Mathematical Statistics** Paul G. Hoel,1984-01-31 A balanced presentation of both theoretical and applied material with numerous problem sets to illustrate important concepts Demonstrates the use of computers and calculators to facilitate problem solving as well as numerous applications to illustrate basic theory **Modern Mathematical**

**Statistics with Applications** Jay L. Devore,Kenneth N. Berk,2011-12-07 Modern Mathematical Statistics with Applications Second Edition strikes a balance between mathematical foundations and statistical practice In keeping with the recommendation that every math student should study statistics and probability with an emphasis on data analysis accomplished authors Jay Devore and Kenneth Berk make statistical concepts and methods clear and relevant through careful explanations and a broad range of applications involving real data The main focus of the book is on presenting and illustrating methods of inferential statistics that are useful in research It begins with a chapter on descriptive statistics that immediately exposes the reader to real data The next six chapters develop the probability material that bridges the gap

between descriptive and inferential statistics Point estimation inferences based on statistical intervals and hypothesis testing are then introduced in the next three chapters The remainder of the book explores the use of this methodology in a variety of more complex settings This edition includes a plethora of new exercises a number of which are similar to what would be encountered on the actuarial exams that cover probability and statistics Representative applications include investigating whether the average tip percentage in a particular restaurant exceeds the standard 15% considering whether the flavor and aroma of Champagne are affected by bottle temperature or type of pour modeling the relationship between college graduation rate and average SAT score and assessing the likelihood of O ring failure in space shuttle launches as related to launch temperature

**Mathematical Statistics** George R. Terrell,2006-04-06 This textbook introduces the mathematical concepts and methods that underlie statistics The course is unified in the sense that no prior knowledge of probability theory is assumed being developed as needed The book is committed to both a high level of mathematical seriousness and to an intimate connection with application In its teaching style the book is mathematically complete concrete constructive active The text is aimed at the upper undergraduate or the beginning Masters program level It assumes the usual two year college mathematics sequence including an introduction to multiple integrals matrix algebra and infinite series

**Introduction to Mathematical Statistics** Robert V. Hogg,Joseph W. McKean,Allen Thornton Craig,2005 This classic book retains its outstanding ongoing features and continues to provide readers with excellent background material necessary for a successful understanding of mathematical statistics Chapter topics cover classical statistical inference procedures in estimation and testing and an in depth treatment of sufficiency and testing theory including uniformly most powerful tests and likelihood ratios Many illustrative examples and exercises enhance the presentation of material throughout the book For a more complete understanding of mathematical statistics

*Advances in Combinatorial Methods and Applications to Probability and Statistics* N. Balakrishnan,2012-12-06 Sri Gopal Mohanty has made pioneering contributions to lattice path counting and its applications to probability and statistics This is clearly evident from his lifetime publications list and the numerous citations his publications have received over the past three decades My association with him began in 1982 when I came to McMaster University Since then I have been associated with him on many different issues at professional as well as cultural levels I have benefited greatly from him on both these grounds I have enjoyed very much being his colleague in the statistics group here at McMaster University and also as his friend While I admire him for his honesty sincerity and dedication I appreciate very much his kindness modesty and broad mindedness Aside from our common interest in mathematics and statistics we both have great love for Indian classical music and dance We have spent numerous many different subjects associated with the Indian music and hours discussing dance I still remember fondly the long drive to Amherst Massachusetts I had a few years ago with him and his wife Shantimayee and all the hearty discussions we had during that journey Combinatorics and applications of combinatorial methods in probability and statistics has become a very active and

fertile area of research in the recent past     **Mathematical Statistics** Dieter Rasch,Dieter Schott,2018-03-19 Explores mathematical statistics in its entirety from the fundamentals to modern methods This book introduces readers to point estimation confidence intervals and statistical tests Based on the general theory of linear models it provides an in depth overview of the following analysis of variance ANOVA for models with fixed random and mixed effects regression analysis is also first presented for linear models with fixed random and mixed effects before being expanded to nonlinear models statistical multi decision problems like statistical selection procedures Bechhofer and Gupta and sequential tests and design of experiments from a mathematical statistical point of view Most analysis methods have been supplemented by formulae for minimal sample sizes The chapters also contain exercises with hints for solutions Translated from the successful German text Mathematical Statistics requires knowledge of probability theory combinatorics probability distributions functions and sequences of random variables which is typically taught in the earlier semesters of scientific and mathematical study courses It teaches readers all about statistical analysis and covers the design of experiments The book also describes optimal allocation in the chapters on regression analysis Additionally it features a chapter devoted solely to experimental designs Classroom tested with exercises included Practice oriented taken from day to day statistical work of the authors Includes further studies including design of experiments and sample sizing Presents and uses IBM SPSS Statistics 24 for practical calculations of data Mathematical Statistics is a recommended text for advanced students and practitioners of math probability and statistics

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This edition gives careful proofs of major results and explains ho     **Examples and Problems in Mathematical Statistics** Shelemyahu Zacks,2014-02-18 Provides the necessary skills to solve problems in mathematical statistics through theory concrete examples and exercises With a clear and detailed approach to the fundamentals of statistical theory Examples and Problems in Mathematical Statistics uniquely bridges the gap between theory and application and presents numerous problem solving examples that illustrate the related notations and proven results Written by an established authority in probability and mathematical statistics each chapter begins with a theoretical presentation to introduce both the topic and the important results in an effort to aid in overall comprehension Examples are then provided followed by problems and finally solutions to some of the earlier problems In addition Examples and Problems in Mathematical Statistics features Over 160 practical and interesting real world examples from a variety of fields including engineering mathematics and statistics to help readers become proficient in theoretical problem solving More than 430 unique exercises with select solutions Key statistical inference topics such as probability theory statistical distributions sufficient statistics information in samples testing statistical hypotheses statistical estimation confidence and tolerance intervals large sample theory and Bayesian

analysis Recommended for graduate level courses in probability and statistical inference Examples and Problems in Mathematical Statistics is also an ideal reference for applied statisticians and researchers *Mathematical Statistics With Applications* Asha Seth Kapadia, Wenyaw Chan, Lemuel A. Moyé, 2017-07-12 Mathematical statistics typically represents one of the most difficult challenges in statistics particularly for those with more applied rather than mathematical interests and backgrounds Most textbooks on the subject provide little or no review of the advanced calculus topics upon which much of mathematical statistics relies and furthermore contain material that is wholly theoretical thus presenting even greater challenges to those interested in applying advanced statistics to a specific area Mathematical Statistics with Applications presents the background concepts and builds the technical sophistication needed to move on to more advanced studies in multivariate analysis decision theory stochastic processes or computational statistics Applications embedded within theoretical discussions clearly demonstrate the utility of the theory in a useful and relevant field of application and allow readers to avoid sudden exposure to purely theoretical materials With its clear explanations and more than usual emphasis on applications and computation this text reaches out to the many students and professionals more interested in the practical use of statistics to enrich their work in areas such as communications computer science economics astronomy and public health

**Statistics without Mathematics** David J. Bartholomew, 2015-10-19 This is a book about the ideas that drive statistics It is an ideal primer for students who need an introduction to the concepts of statistics without the added confusion of technical jargon and mathematical language It introduces the intuitive thinking behind standard procedures explores the process of informal reasoning and uses conceptual frameworks to provide a foundation for students new to statistics It showcases the expertise we have all developed from living in a data saturated society increases our statistical literacy and gives us the tools needed to approach statistical mathematics with confidence Key topics include Variability Standard Distributions Correlation Relationship Sampling Inference An engaging informal introduction this book sets out the conceptual tools required by anyone undertaking statistical procedures for the first time or for anyone needing a fresh perspective whilst studying the work of others

*An Introduction to Mathematical Statistics and Its Applications* Richard J. Larsen, Morris L. Marx, 2011-11-21 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Noted for its integration of real world data and case studies this text offers sound coverage of the theoretical aspects of mathematical statistics The authors demonstrate how and when to use statistical methods while reinforcing the calculus that students have mastered in previous courses Throughout the Fifth Edition the authors have added and updated examples and case studies while also refining existing features that show a clear path from theory to practice *Mathematical Statistics* S. S. Wilks, 2018-11-10 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and

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