Basic Statistics Formulas

Population Measures

$$\text{Mean } \mu = \frac{1}{n}\sum x_i \tag{1}$$

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

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

Sampling

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

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

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

$$\text{z-score } z = \frac{x - \mu}{\sigma} \tag{7}$$

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

Linear Regression

$$\text{Line } \hat{y} = a + bx \tag{9}$$

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

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

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

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

$$CI = b \pm t^* SE_b \tag{14}$$

Probability

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

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

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

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

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

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

Binomial Distribution :

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

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

One-Sample z-statistic

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

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

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

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

One-Sample t-statistic

$$SEM = \frac{s_x}{\sqrt{n}},\ t = \frac{\bar{x} - \mu}{s_x/\sqrt{n}} \tag{27}$$

$$\text{Confidence Interval} = \bar{x} \pm t^*\frac{s_x}{\sqrt{n}} \tag{28}$$

Two-Sample t-statistic

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

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

Sample Proportions

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

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

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

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

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

Two-Sample Proportions

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

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

$$\text{To test } H_0: p_1 = p_2,\ \text{use} \tag{38}$$

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

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

Chi-Square Statistic

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

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

Central Limit Theorem

$$\sigma_{\bar{x}} \to \frac{\sigma}{\sqrt{n}} \text{ as } n \to \infty \tag{42}$$

Basic Statistics With Applications

Asha Seth Kapadia,Wenyaw Chan,Lemuel A. Moyé

Basic Statistics With Applications:

   Basic Statistics Edwin Mansfield,1986 This book is written for first courses in statistics for undergraduates and graduate students   **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   Mathematical Statistics with Applications Kandethody M. Ramachandran,Chris P. Tsokos,2009-03-13 Mathematical Statistics with Applications provides a calculus based theoretical introduction to mathematical statistics while emphasizing interdisciplinary applications as well as exposure to modern statistical computational and simulation concepts that are not covered in other textbooks Includes the Jackknife Bootstrap methods the EM algorithms and Markov chain Monte Carlo methods Prior probability or statistics knowledge is not required Step by step procedure to solve real problems making the topic more accessible Exercises blend theory and modern applications Practical real world chapter projects Provides an optional section in each chapter on using Minitab SPSS and SAS commands

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Many mathematical statistics texts are heavily oriented toward a rigorous mathematical development of probability and statistics without much attention paid to how statistics is actually used In contrast 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   **An Introduction to Statistics with Python** Thomas Haslwanter,2022-11-15 Now in its second edition this textbook provides an introduction to Python and its use for statistical data analysis It covers common statistical tests for continuous discrete and categorical data as well as linear regression analysis and topics from survival analysis and Bayesian statistics For this new edition the introductory chapters on Python data input and visualization have been reworked and updated The chapter on experimental design has been expanded and programs for the determination of confidence intervals commonly used in quality control have been introduced The book also features a new chapter on finding patterns in data including time series A new appendix describes useful programming tools such as testing tools code repositories and GUIs The provided working code for Python solutions together with easy to follow examples will reinforce the reader s immediate understanding of the topic Accompanying data sets and Python programs are also available online With recent advances in the Python ecosystem Python has become a popular language for scientific computing offering a powerful environment for statistical data analysis With examples drawn mainly from the life and medical sciences this book is intended primarily for masters and PhD students As it provides the required statistics background the book can also be used by anyone who wants to perform a statistical data analysis   **Applied Statistics with Python** Leon Kaganovskiy,2025-03-03 Applied Statistics with Python Volume I Introductory Statistics and Regression concentrates on applied and computational aspects of statistics focusing on conceptual understanding and Python based calculations Based on years of experience

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