

Statistics formula sheet

Summarising data

Sample mean:

$$\bar{x} = \frac{1}{n} \sum_{i=1}^n x_i.$$

Sample variance:

$$s_x^2 = \frac{1}{n-1} \sum_{i=1}^n (x_i - \bar{x})^2 = \frac{1}{n-1} \left(\sum_{i=1}^n x_i^2 - n\bar{x}^2 \right).$$

Sample covariance:

$$g = \frac{1}{n-1} \sum_{i=1}^n (x_i - \bar{x})(y_i - \bar{y}) = \frac{1}{n-1} \left(\sum_{i=1}^n x_i y_i - n\bar{x}\bar{y} \right).$$

Sample correlation:

$$r = \frac{g}{s_x s_y}.$$

Probability

Addition law:

$$P(A \cup B) = P(A) + P(B) - P(A \cap B).$$

Multiplication law:

$$P(A \cap B) = P(A)P(B|A) = P(B)P(A|B).$$

Partition law: For a partition $B_1, B_2, \dots, B_k$

$$P(A) = \sum_{i=1}^k P(A \cap B_i) = \sum_{i=1}^k P(A|B_i)P(B_i).$$

Bayes' formula:

$$P(B_i|A) = \frac{P(A|B_i)P(B_i)}{P(A)} = \frac{P(A|B_i)P(B_i)}{\sum_{i=1}^k P(A|B_i)P(B_i)}.$$

Discrete distributions

Mean value:

$$E(X) = \mu = \sum_{x_i \in \mathcal{X}} x_i p(x_i).$$

Variance:

$$\text{Var}(X) = \sum_{x_i \in \mathcal{X}} (x_i - \mu)^2 p(x_i) = \sum_{x_i \in \mathcal{X}} x_i^2 p(x_i) - \mu^2.$$

The binomial distribution:

$$p(x) = \binom{n}{x} \theta^x (1-\theta)^{n-x} \text{ for } x = 0, 1, \dots, n.$$

This has mean $n\theta$ and variance $n\theta(1-\theta)$.

The Poisson distribution:

$$p(x) = \frac{\lambda^x \exp(-\lambda)}{x!} \text{ for } x = 0, 1, 2, \dots.$$

This has mean λ and variance λ .

Continuous distributions

Distribution function:

$$F(y) = P(X \leq y) = \int_{-\infty}^y f(x) dx.$$

Density function:

$$f(x) = \frac{d}{dx} F(x).$$

Evaluating probabilities:

$$P(a < X \leq b) = \int_a^b f(x) dx = F(b) - F(a).$$

Expected value:

$$E(X) = \mu = \int_{-\infty}^{\infty} x f(x) dx.$$

Variance:

$$\text{Var}(X) = \int_{-\infty}^{\infty} (x - \mu)^2 f(x) dx = \int_{-\infty}^{\infty} x^2 f(x) dx - \mu^2.$$

Hazard function:

$$h(t) = \frac{f(t)}{1 - F(t)}.$$

Normal density with mean μ and variance σ^2 :

$$f(x) = \frac{1}{\sqrt{2\pi\sigma^2}} \exp \left\{ -\frac{1}{2} \left(\frac{x - \mu}{\sigma} \right)^2 \right\} \text{ for } x \in [-\infty, \infty].$$

Weibull density:

$$f(t) = \lambda \alpha t^{\alpha-1} \exp(-\lambda t^\alpha) \text{ for } t \geq 0.$$

Exponential density:

$$f(t) = \lambda \exp(-\lambda t) \text{ for } t \geq 0.$$

This has mean λ^{-1} and variance λ^{-2} .

Test for population mean

Data: Single sample of measurements $x_1, \dots, x_n$.

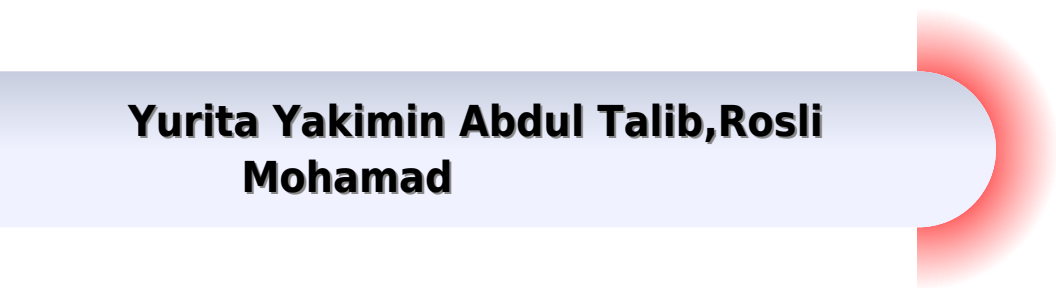
Hypothesis: $H: \mu = \mu_0$.

Method:

- Calculate $\bar{x}$, s^2 , and $t = (\bar{x} - \mu_0)/\sqrt{n}/s$.
- Obtain critical value from t -tables, $df = n - 1$.

Understanding Basic Statistics Chapter Summary Formula Guide

**Yurita Yakimin Abdul Talib, Rosli
Mohamad**



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The Summation of Series Harold T. Davis,2014-12-16 Valuable as text and a reference this concise monograph covers calculus of finite differences gamma and psi functions other methods of summation summation of tables and infinite sums 1962 edition

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Introductory Statistics Using R Herschel Knapp,2025-02-25 Finally a textbook that makes it simple to teach and learn introductory statistics using the R software Herschel Knapp s Introductory Statistics Using R An Easy Approach is a jargon free guide to real world statistics designed to concisely answer three important questions Which statistic should I use How do I run the analysis How do I document the results Practical examples presented throughout the text with exercises at the end of each chapter build proficiency through hands on learning The student website includes datasets prepared R code for each statistic in the R Syntax Guide and tutorial videos As well as learning statistics with this text students learn how to convert numeric results into clear publishable documentation

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process models with applications to the petrology of basalts The publication is best recommended for advanced geology students research workers and teachers with an interest in using mathematical techniques for problem solving

Guidelines for Chemical Transportation Safety, Security, and Risk Management CCPS (Center for Chemical Process Safety),2010-08-13 This CCPS Guideline book outlines current transportation risk analysis software programs and demonstrates several available risk assessment programs for land transport by rail truck and pipeline for consequences that may affect the public or the environment Provides introductory transport risk considerations for process engineers Gives guidance on route selection equipment factors and materials Describes transportation security risk issues and industry practices to mitigate them Includes loading and unloading checklists for several transport modes Develops specific operating procedures and checklists to reduce human error Discusses considerations for transportation security including threat and vulnerability assessments and potential countermeasures Summarizes key transportation security regulations guidelines and industry initiatives Note CD ROM DVD and other supplementary materials are not included as part of eBook file

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statistical environment and programming language that can help to make sense of it all A huge open source project R has become enormously popular because of its power and flexibility With R you can organise analyse and visualise data This clear and methodical book will help you learn how to use R from the ground up giving you a start in the world of data science Learning about data is important in many academic and business settings and R offers a potent and adaptable programming toolbox The book covers a range of topics including importing exporting data summarising data visualising data managing and manipulating data objects data analysis regression ANOVA and association among others and programming functions Regardless of your background or specialty you ll find this book the perfect primer on data analysis data visualisation and data management and a springboard for further exploration

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Table of Contents Understanding Basic Statistics Chapter Summary Formula Guide

1. Understanding the eBook Understanding Basic Statistics Chapter Summary Formula Guide
 - The Rise of Digital Reading Understanding Basic Statistics Chapter Summary Formula Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Understanding Basic Statistics Chapter Summary Formula 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 Understanding Basic Statistics Chapter Summary Formula Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Understanding Basic Statistics Chapter Summary Formula Guide

- Personalized Recommendations
- Understanding Basic Statistics Chapter Summary Formula Guide User Reviews and Ratings
- Understanding Basic Statistics Chapter Summary Formula Guide and Bestseller Lists
- 5. Accessing Understanding Basic Statistics Chapter Summary Formula Guide Free and Paid eBooks
 - Understanding Basic Statistics Chapter Summary Formula Guide Public Domain eBooks
 - Understanding Basic Statistics Chapter Summary Formula Guide eBook Subscription Services
 - Understanding Basic Statistics Chapter Summary Formula Guide Budget-Friendly Options
- 6. Navigating Understanding Basic Statistics Chapter Summary Formula Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Understanding Basic Statistics Chapter Summary Formula Guide Compatibility with Devices
 - Understanding Basic Statistics Chapter Summary Formula Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Understanding Basic Statistics Chapter Summary Formula Guide
 - Highlighting and Note-Taking Understanding Basic Statistics Chapter Summary Formula Guide
 - Interactive Elements Understanding Basic Statistics Chapter Summary Formula Guide
- 8. Staying Engaged with Understanding Basic Statistics Chapter Summary Formula Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Understanding Basic Statistics Chapter Summary Formula Guide
- 9. Balancing eBooks and Physical Books Understanding Basic Statistics Chapter Summary Formula Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Understanding Basic Statistics Chapter Summary Formula Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Understanding Basic Statistics Chapter Summary Formula Guide
 - Setting Reading Goals Understanding Basic Statistics Chapter Summary Formula Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Understanding Basic Statistics Chapter Summary Formula Guide

- Fact-Checking eBook Content of Understanding Basic Statistics Chapter Summary Formula 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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