

# 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

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

# Understanding Basic Statistics Chapter Summary Formula Guide

**David Weisburd, Chester Britt, David B.  
Wilson, Alese Wooditch**



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**Basic Statistics in Criminology and Criminal Justice** David Weisburd, Chester Britt, David B. Wilson, Alese Wooditch, 2021-02-23 This introductory textbook takes a building block approach that emphasizes the application and interpretation of statistics in research in crime and justice This text is meant for both students and professionals who want to gain a basic understanding of common statistical methods used in criminology and criminal justice before advancing to more complex statistical analyses in future volumes This book emphasizes comprehension and interpretation As the statistical methods discussed become more complex and demanding to compute it integrates statistical software It provides readers with an accessible understanding of popular statistical programs used to examine real life crime and justice problems including SPSS Stata and R In addition the book includes supplemental resources such as a glossary of key terms practice questions and sample data Basic Statistics in Criminology and Criminal Justice aims to give students and researchers a core understanding of statistical concepts and methods that will leave them with the confidence and tools to tackle the statistical problems in their own research work

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**Basic Statistics for the Behavioral Sciences** Gary W. Heiman, 2003

Each statistical procedure in this text is presented in a conceptual, intuitive manner to illustrate how it fills a need in the process. Students anxious about math will benefit from a scaled-back emphasis on the discipline, plain language, and a step-by-step approach that reintroduces reviews and reinforces procedures. In addition, references to psychology have been reduced to make the text more inclusive of all behavioral sciences. The text has been revised to streamline the narrative without reducing content, make presentations more concise, and add more explanatory techniques. Nearly all examples include specific variables and questions rather than generic data, and most are taken from everyday life so that students gain an intuitive feel for the meaning of scores and develop an ability to think in statistical terms.

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**A Simplified Guide to Using Statistical Techniques with Computer Applications** Margaret N. Morrison, 1986

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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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