

Important Formulas

Chapter 1 - Data Description

Mean for individual data: $\bar{x} = \frac{\sum x}{n}$

Mean for grouped data: $\bar{x} = \frac{\sum f \cdot x}{n}$

Standard Deviation for individual data

$$s = \sqrt{\frac{\sum x^2 - (\sum x)^2/n}{n-1}}$$

Standard Deviation for grouped data

$$s = \sqrt{\frac{\sum f \cdot x^2 - (\sum f \cdot x)^2/n}{n-1}}$$

Range rule of thumb: $s \approx \frac{\text{range}}{4}$

Chapter 2 - Probability and Counting Rules

Additional rule 2 (mutually exclusive events)

$$P(A \text{ and } B) = P(A) + P(B)$$

Additional rule 2 (events are statistically independent)

$$P(A \text{ and } B) = P(A) \cdot P(B) = P(B \text{ and } A)$$

Multiplication rule 1 (dependent events)

$$P(A \text{ and } B) = P(A) \cdot P(B|A)$$

Multiplication rule 2 (dependent events)

$$P(A \text{ and } B) = P(B) \cdot P(A|B)$$

Conditional probability: $P(B|A) = \frac{P(A \text{ and } B)}{P(A)}$

Complementary events: $P(\bar{A}) = 1 - P(A)$

Permutation counting rule: Total number of outcomes of a sequence when each event has a different number of possibilities: $n_1 \cdot n_2 \cdot n_3 \cdot \dots \cdot n_k$

Permutation rule: Number of permutations of n objects

$$\text{Using } 1 \text{ to } n \text{ times: } P_n = \frac{n!}{n-n!}$$

Combinations rule: Number of combinations of r objects

$$\text{selected from } n \text{ objects: } C_n^r = \frac{n!}{r!(n-r)!}$$

Chapter 3 - Probability Distributions

Mean for a probability distribution: $\mu = \sum x \cdot P(x)$
 Variance and standard deviation for a probability distribution

$$s^2 = \sum x^2 \cdot P(x) - \mu^2$$

$$s = \sqrt{\sum x^2 \cdot P(x) - \mu^2}$$

Expected value: $E(x) = \sum x \cdot P(x)$

Binomial probability: $P(x) = \frac{n!}{x!(n-x)!} \cdot p^x \cdot (1-p)^{n-x}$

Mean for binomial distribution: $\mu = n \cdot p$

Variance and standard deviation for the binomial distribution: $s^2 = n \cdot p \cdot (1-p)$ $s = \sqrt{n \cdot p \cdot (1-p)}$

Chapter 4 - The Normal Distribution

Standard error: $s_e = \frac{s}{\sqrt{n}}$ $\frac{\sum x \cdot s}{\sqrt{n}}$

Mean of sample mean: $\mu_x = \mu$

Standard error of the mean: $s_e = \frac{s}{\sqrt{n}}$

Central Limit Theorem formula: $z = \frac{\bar{x} - \mu}{s_e} = \frac{\bar{x} - \mu}{s/\sqrt{n}}$

Chapter 5 - Confidence Intervals with Sample Size

Confidence interval for mean:

$$\bar{x} \pm z_{\alpha/2} \cdot \frac{s}{\sqrt{n}} = \bar{x} \pm z_{\alpha/2} \cdot s_e$$

Confidence interval for mean:

$$\bar{x} \pm z_{\alpha/2} \cdot \frac{s}{\sqrt{n}} = \bar{x} \pm z_{\alpha/2} \cdot s_e$$

Sample size for given z or t value: $n = \left(\frac{z \cdot s}{E} \right)^2$ where E is the maximum error of estimate

Confidence interval for proportion:

$$\bar{p} \pm z_{\alpha/2} \cdot \sqrt{\frac{\bar{p} \cdot (1-\bar{p})}{n}}$$

Elementary Statistics Bluman Formula Card

Allan Bluman



Elementary Statistics Bluman Formula Card:

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Table of Contents Elementary Statistics Bluman Formula Card

1. Understanding the eBook Elementary Statistics Bluman Formula Card
 - The Rise of Digital Reading Elementary Statistics Bluman Formula Card
 - Advantages of eBooks Over Traditional Books
2. Identifying Elementary Statistics Bluman Formula Card
 - 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 Elementary Statistics Bluman Formula Card
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elementary Statistics Bluman Formula Card

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

- Fact-Checking eBook Content of Elementary Statistics Bluman Formula Card
 - 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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