

Probability And Statistics Schaum Series Ebook

Probability and Statistics Schaum Series is a highly regarded collection of textbooks and reference materials designed to provide comprehensive coverage of core concepts in probability theory and statistical analysis. Renowned for their clarity, systematic approach, and thorough explanations, the Schaum Series serves as an invaluable resource for students, educators, and professionals seeking to deepen their understanding of these vital branches of mathematics. Whether you're preparing for competitive exams, supplementing your coursework, or conducting research, the Schaum Series offers detailed insights, numerous solved problems, and practical examples to facilitate effective learning.

Overview of the Schaum Series in Probability and Statistics

The Schaum Series, originally published by McGraw-Hill, has established itself as a trusted source for self-study and academic reference. The series' books on probability and statistics are particularly popular for their structured presentation and emphasis on problem-solving techniques.

Key Features of the Series

- **Comprehensive Coverage:** Topics range from fundamental concepts to advanced applications.
- **Step-by-Step Solutions:** Detailed solutions to numerous problems help reinforce learning.
- **Clear Explanations:** Concepts are explained in an accessible manner suitable for beginners and advanced learners alike.
- **Practice Problems:** A wide variety of exercises to test understanding and improve problem-solving skills.
- **Supplementary Materials:** Diagrams, tables, and illustrative examples enhance comprehension.

Core Topics Covered in the Probability and Statistics Schaum Series

The series encompasses a broad spectrum of topics essential for mastering probability and statistics. Here's a detailed overview:

Probability Theory

- Basic Concepts of Probability

- Sample spaces and events
- Probability axioms and properties
- Conditional probability and independence

- Random Variables

- Discrete and continuous variables
- Probability mass functions (PMFs) and probability density functions (PDFs)
- Cumulative distribution functions (CDFs)

- Expectation and Variance

- Expected value calculations
- Variance and moments
- Properties of expectation and variance

- Common Distributions

- Binomial, Poisson, and geometric distributions
- Normal, exponential, and gamma distributions
- Applications and characteristics of each distribution

- Limit Theorems

- Law of Large Numbers
- Central Limit Theorem

Statistics

- Descriptive Statistics

- Measures of central tendency: mean, median, mode
- Measures of dispersion: range, variance, standard deviation
- Skewness and kurtosis

- Inferential Statistics

- Sampling theory and sampling distributions
- Estimation: point and interval estimates
- Hypothesis testing procedures

- **Regression and Correlation**

- Simple linear regression
- Correlation coefficient and its interpretation
- Multiple regression basics

- **Analysis of Variance (ANOVA)**

- One-way and two-way ANOVA
- Assumptions and interpretations

- **Non-Parametric Methods**

- Chi-square tests
- Rank-based tests

Why Choose the Schaum Series for Learning Probability and Statistics?

The popularity of the Schaum Series can be attributed to several distinctive advantages:

Structured and Systematic Approach

The books follow a logical progression, beginning with fundamental principles and gradually advancing to complex topics. This structure helps learners build a solid foundation before tackling more challenging concepts.

Extensive Problem Sets

One of the hallmark features of the series is its numerous solved and unsolved problems. These problems simulate real-world scenarios and exam questions, providing learners with ample practice to master the material.

Clarity and Accessibility

The language used is straightforward, with clear explanations and diagrams that aid understanding.

Complex theorems and ideas are broken down into manageable parts.

Focus on Application

Beyond theoretical coverage, the series emphasizes practical applications, enabling learners to apply statistical methods to real data and situations.

Ideal for Self-Study and Classroom Use

Its comprehensive yet concise format makes it suitable for independent learners and instructors seeking supplementary material.

How to Maximize Learning from the Schaum Series

To get the most out of these resources, consider the following strategies:

Study Actively

- Read each chapter thoroughly before attempting problems.
- Solve all exercises, starting with simpler ones and progressing to more difficult problems.
- Review solutions carefully to understand mistakes and learn alternative approaches.

Use Supplementary Resources

- Combine with online tutorials, video lectures, and academic papers for diverse perspectives.
- Utilize statistical software tools like R, SPSS, or Python for data analysis practice.

Apply Concepts to Real Data

- Work on datasets related to your field of interest.
- Conduct mini-projects to reinforce statistical reasoning and interpretation skills.

Join Study Groups or Forums

- Discuss challenging topics with peers to deepen understanding.
- Share problem solutions and tips for efficient learning.

Popular Titles in the Probability and Statistics Schaum Series

Some of the most sought-after titles include:

- **Schaum's Outline of Probability and Statistics:** An all-in-one guide covering core concepts with numerous practice problems.
- **Schaum's Outline of Statistics:** Focuses on statistical methods, data analysis, and hypothesis testing.
- **Schaum's Outline of Probability:** Specializes in probability theory, distributions, and related applications.

Each title is designed to complement coursework or serve as a standalone reference, making them versatile tools for learners at various levels.

Conclusion

The Probability and Statistics Schaum Series remains an essential resource for anyone seeking a thorough understanding of these mathematical disciplines. Its combination of clear explanations, extensive problem sets, and practical applications equips learners with the skills necessary for academic success and real-world problem solving. Whether you are a student aiming to excel in exams, a professional working with data, or an educator developing course material, the Schaum Series offers the guidance and resources to achieve your goals. Embrace this series as a part of your learning toolkit, and unlock the powerful insights that probability and statistics can offer.

If you need further guidance on specific topics within probability and statistics or recommendations for study plans, feel free to ask!

Probability and Statistics Schaum Series: A Deep Dive into a Cornerstone of Mathematical Learning

The Probability and Statistics Schaum Series has long been regarded as a cornerstone resource for students, educators, and professionals seeking a comprehensive understanding of these fundamental branches of mathematics. With its rich collection of clear explanations, illustrative examples, and rigorous exercises, the series serves as both an introductory guide and an advanced reference. In this article, we will explore the origins, structure, and significance of the Schaum Series in the context of probability and statistics, examining how it remains relevant in contemporary education and practical applications.

The Origins and Evolution of the Schaum Series

A Brief Historical Perspective

The Schaum Series was launched in the 1950s by McGraw-Hill Education, aiming to provide accessible, self-study guides across a broad spectrum of technical subjects. The core idea was to distill complex topics into concise, digestible chapters filled with practical problems and solutions. Over the decades, the series has expanded to encompass fields such as engineering, mathematics, physics, and computer science, among others.

The Probability and Statistics volumes emerged as part of this initiative, reflecting the increasing importance of data analysis, risk assessment, and probabilistic reasoning in both academia and industry. The series' reputation for clarity and thoroughness has made it a favorite among students preparing for exams like the GRE, civil service tests, and professional certifications, as well as for professionals seeking to strengthen their foundational knowledge.

Evolution and Modern Relevance

While the core principles of probability and statistics have remained consistent, the Schaum Series has evolved to include contemporary topics such as Bayesian inference, statistical computing, and data visualization. The series' adaptability ensures that it remains a relevant and valuable resource amid the rapidly changing landscape of data science and analytics.

Structure and Content of the Probability and Statistics Schaum Series

Foundational Topics Covered

The series typically begins with fundamental concepts to build a solid base. These include:

- Basic probability principles
- Random variables and probability distributions
- Expectation, variance, and moments
- Conditional probability and independence
- Common discrete and continuous distributions (binomial, Poisson, normal, exponential, etc.)

From these foundations, the series progressively advances to more complex topics such as:

- Joint, marginal, and conditional distributions
- Law of large numbers and central limit theorem
- Estimation theory, including point and interval estimation
- Hypothesis testing and significance
- Regression analysis and correlation

Pedagogical Approach

The hallmark of the Schaum Series lies in its pedagogical style:

- **Structured Chapters:** Each chapter introduces concepts systematically, often starting with definitions, followed by explanations, and then examples.
- **Worked Examples:** The series emphasizes solving numerous problems, demonstrating step-by-step methods to reach solutions.
- **Practice Problems:** Ample exercises at varying difficulty levels allow learners to test their understanding and develop problem-solving skills.
- **Summaries and Key Points:** Summaries highlight essential formulas and concepts for quick revision.
- **Appendices and References:** Additional resources, tables, and formulas are provided for further study.

Significance of the Series in Education and Professional Practice

Educational Impact

The Schaum Series has played a pivotal role in democratizing access to complex mathematical topics. Its clarity and emphasis on problem-solving make it particularly suitable for:

- **Students preparing for exams:** The structured approach helps learners grasp concepts thoroughly and apply them effectively.
- **Self-learners and hobbyists:** Its self-contained nature allows for independent study without the need for formal classroom instruction.
- **Instructors:** The exercises and solutions serve as valuable supplementary materials for coursework.

Practical Applications in Industry

Beyond academia, the principles elucidated in the Schaum Series underpin many real-world applications:

- **Data analysis and business intelligence:** Understanding statistical measures and probability distributions helps in making informed decisions.
- **Risk assessment and management:** Probabilistic models are vital in insurance, finance, and engineering.

- Quality control and reliability engineering: Statistical process control relies heavily on the concepts covered in the series.
- Machine learning and AI: Foundational probability and statistics are integral to algorithms and model evaluation.

The Role of the Schaum Series in the Modern Data Age

Bridging Theory and Practice

As data-driven decision-making becomes ubiquitous, the importance of rigorous statistical understanding grows. The Schaum Series acts as a bridge, translating theoretical concepts into practical skills. Its problem-solving orientation aligns well with the needs of practitioners who require both conceptual clarity and operational proficiency.

Integration with Technology

While traditionally focused on pen-and-paper problems, recent editions and related materials in the series incorporate computational tools like R, Python, and statistical software. This integration reflects the evolving landscape, where data analysis is increasingly performed via programming rather than manual calculation.

Preparing for Advanced Topics

The series also serves as a stepping stone toward more advanced fields such as Bayesian statistics, multivariate analysis, and machine learning. Its solid grounding prepares learners to embrace new methodologies and tools confidently.

Challenges and Criticisms

Despite its many strengths, the Schaum Series faces certain criticisms:

- Depth versus Breadth: Some argue that the series covers a wide range of topics superficially, which might not suffice for deep research or specialized applications.
- Lack of Theoretical Rigor: The focus on problem-solving sometimes comes at the expense of rigorous proofs, which are essential in advanced academic work.
- Modern Relevance: Given rapid technological advances, some outdated content may not align with current best practices in data science or computational statistics.

Nevertheless, its role as an accessible, problem-centered resource remains unchallenged for foundational learning.

Conclusion: The Enduring Value of the Schaum Series

The Probability and Statistics Schaum Series continues to be a vital resource for learners and professionals alike. Its practical approach, comprehensive coverage, and emphasis on problem-solving make it an invaluable guide through the often complex landscape of probabilistic reasoning and statistical inference. As data continues to influence every facet of modern life, mastering these concepts remains crucial, and the Schaum Series stands out as a trusted companion in this educational journey. Whether for exam preparation, professional development, or personal enrichment, its legacy endures as a beacon of clarity and rigor in the world of mathematics.

Question What topics are covered in the 'Probability and Statistics Schaum Series'? The series covers fundamental concepts such as probability theory, random variables, probability distributions, statistical inference, hypothesis testing, regression analysis, and data analysis techniques. **Answer** How is the 'Probability and Statistics Schaum Series' useful for students? It provides clear explanations, numerous examples, and practice problems that help students understand complex concepts and prepare effectively for exams and real-world applications. Can beginners benefit from the 'Probability and Statistics Schaum Series'? Yes, the series is designed to be accessible for beginners, offering step-by-step explanations that build foundational knowledge before progressing to more advanced topics. Is the 'Probability and Statistics Schaum Series' suitable for self-study? Absolutely, the series is structured to support self-study with comprehensive coverage, practice problems, and solutions that reinforce learning without the need for an instructor. How does the 'Probability and Statistics Schaum Series' compare to other textbooks? The Schaum Series is renowned for its concise, problem-solving approach, making complex topics more manageable, whereas other textbooks may offer more theoretical depth. It's particularly useful for quick review and practice. Are there any online resources or supplementary materials for the 'Probability and Statistics Schaum Series'? While the series itself is primarily a textbook, many online platforms offer additional practice problems, solutions, and tutorials that complement the material covered in the Schaum Series. Which editions of the 'Probability and Statistics Schaum Series' are most recommended? The most recent editions are recommended as they include updated content, clearer explanations, and the latest statistical methodologies. Be sure to choose editions compatible with your curriculum or study needs. Can the 'Probability and Statistics Schaum Series' help with advanced topics in statistics? While it provides a solid foundation, for highly advanced topics beyond introductory and intermediate levels, supplementary texts or specialized resources may be necessary.

Related keywords: probability, statistics, Schaum's series, mathematical statistics, probability theory, statistical methods, probability distributions, statistical inference, data analysis, mathematical textbooks

Introductory Statistics Kokoska

Introductory Statistics Kokoska is a foundational course designed to introduce students and beginners to the essential concepts of statistics. Whether you're a student preparing for advanced studies, a professional seeking to enhance your data analysis skills, or simply someone interested in understanding how data shapes our world, learning the principles of introductory statistics Kokoska provides a vital stepping stone. This article will explore the core topics, methodologies, and practical applications of introductory statistics Kokoska, helping you grasp the fundamentals and see how they can be applied across various fields.

Understanding the Basics of Introductory Statistics Kokoska

Introductory statistics Kokoska covers the fundamental concepts necessary to analyze and interpret data effectively. This field combines theoretical knowledge with practical skills, enabling learners to make informed decisions based on data.

What is Statistics?

Statistics is the science of collecting, analyzing, interpreting, presenting, and organizing data. It helps in uncovering patterns, making predictions, and supporting decision-making processes.

Importance of Introductory Statistics Kokoska

- Provides foundational knowledge for advanced statistical methods
- Enhances critical thinking and data literacy skills
- Supports decision-making in fields like healthcare, business, social sciences, and more
- Prepares students for data-driven environments in the modern world

Core Topics Covered in Introductory Statistics Kokoska

The course typically includes a broad spectrum of topics, each building on the previous to give a comprehensive understanding of statistical analysis.

Descriptive Statistics

Descriptive statistics summarize and describe the main features of a dataset.

- Measures of Central Tendency: Mean, Median, Mode

- Measures of Variability: Range, Variance, Standard Deviation
- Data Visualization: Histograms, Bar Charts, Boxplots

Inferential Statistics

Inferential statistics allow us to make predictions or inferences about a larger population based on sample data.

- Sampling Methods and Sampling Distributions
- Confidence Intervals
- Hypothesis Testing: Null and Alternative Hypotheses
- p-values and Significance Levels

Probability Theory

Probability forms the basis for many statistical methods, helping quantify uncertainty.

- Basic Probability Rules
- Conditional Probability
- Probability Distributions: Binomial, Normal, Poisson

Regression and Correlation

These tools examine relationships between variables.

- Correlation Coefficient
- Simple Linear Regression
- Multiple Regression Analysis

Practical Applications of Introductory Statistics Kokoska

Applying statistical concepts to real-world problems is a vital aspect of the Kokoska course.

Business and Economics

Statistical analysis helps in market research, quality control, and financial forecasting.

Healthcare and Medicine

Epidemiological studies, clinical trials, and health data analysis rely heavily on statistics.

Social Sciences

Surveys, experiments, and observational studies utilize statistical tools to understand societal trends.

Environmental Studies

Analyzing climate data, pollution levels, and ecological surveys depend on sound statistical methods.

Tools and Software Used in Introductory Statistics Kokoska

Modern statistics courses incorporate various software tools that facilitate data analysis.

Common Statistical Software

- Excel
- SPSS
- R Programming
- Python (with libraries like pandas, numpy, scipy)
- JMP

Choosing the Right Tool

Consider your specific needs, ease of use, and the complexity of analysis when selecting software.

Learning Strategies for Introductory Statistics Kokoska

Effective learning involves a combination of theoretical study and practical application.

Study Tips

- Practice with real datasets to understand concepts better
- Work on problem sets regularly
- Participate in discussions and study groups
- Use online resources and tutorials for additional support

Common Challenges and How to Overcome Them

- Understanding abstract concepts: Use visual aids and practical examples
- Grasping probability: Break down problems into smaller parts
- Mastering software tools: Follow step-by-step tutorials and practice frequently

Benefits of Mastering Introductory Statistics Kokoska

Acquiring a solid understanding of introductory statistics Kokoska offers numerous advantages.

Enhanced Data Literacy

Ability to read, interpret, and critically evaluate data presented in various formats.

Better Decision-Making Skills

Applying statistical reasoning to make informed choices in personal and professional contexts.

Preparation for Advanced Studies

A strong foundation in basic statistics is essential for success in higher-level courses and research projects.

Career Advancement

Many fields value employees with statistical skills, opening doors to diverse job opportunities.

Conclusion

Introductory statistics Kokoska serves as a crucial gateway to understanding the world through data. By mastering core concepts such as descriptive and inferential statistics, probability theory, and data analysis tools, learners can develop critical skills that are highly valued across numerous industries. Whether you're aiming to enhance your academic pursuits, improve your professional skill set, or simply satisfy your curiosity about how data influences decisions, investing in a solid understanding of introductory statistics Kokoska is a wise choice. Embrace the learning process, utilize practical tools, and apply your knowledge to real-world scenarios to unlock the full potential of statistical analysis.

Introductory Statistics Kokoska: A Comprehensive Guide to Building Your Foundations in Data Analysis

In the ever-evolving landscape of data-driven decision-making, understanding introductory statistics kokoska is essential for students, professionals, and anyone interested in deciphering the stories data can tell. Whether you're a beginner stepping into the world of statistics or someone looking to reinforce foundational concepts, this guide will walk you through the core ideas, methods, and applications associated with introductory statistics kokoska. By exploring key principles, common techniques, and practical examples, you'll be equipped to navigate the initial stages of statistical analysis confidently.

What Is Introductory Statistics Kokoska?

Before diving into details, it's important to clarify what introductory statistics kokoska entails. The phrase combines two components:

- **Introductory Statistics:** The branch of mathematics concerned with collecting, analyzing, interpreting, presenting, and organizing data. It lays the groundwork for understanding variability, relationships, and inference.
- **Kokoska:** A term that might be specific to a regional curriculum, a particular textbook, or a teaching method. For the purposes of this guide, we interpret kokoska as representative of foundational or beginner-level approaches to statistics, often emphasizing clarity, simplicity, and core concepts.

Together, introductory statistics kokoska signifies beginning-level statistical education, focusing on the essential tools and ideas that form the backbone of more advanced statistical analysis.

Why Is Introductory Statistics Kokoska Important?

Understanding the basics of statistics is crucial for several reasons:

- **Informed Decision-Making:** Many daily decisions, from health choices to financial planning, depend on interpreting data correctly.
- **Scientific Research:** Proper statistical methods underpin credible research findings across disciplines.
- **Data Literacy:** In a data-rich world, the ability to understand and communicate statistical information is a vital skill.
- **Foundation for Advanced Topics:** Mastering introductory concepts prepares learners for more complex statistical methods like regression, hypothesis testing, and machine learning.

Core Principles of Introductory Statistics Kokoska

- Descriptive Statistics

Descriptive statistics summarize and organize data to reveal underlying patterns or characteristics.

Key concepts include:

- Measures of Central Tendency:
 - Mean: The average of a data set.
 - Median: The middle value when data are ordered.
 - Mode: The most frequently occurring value.

- Measures of Variability:
 - Range: Difference between the maximum and minimum.
 - Variance: Average squared deviation from the mean.
 - Standard Deviation: Square root of variance, indicating typical deviation.

- Data Visualization:
 - Histograms: Show data distribution.
 - Box Plots: Visualize spread and identify outliers.
 - Bar Charts: Compare categorical data.

- Probability Basics

Probability provides the foundation for inferential statistics.

Key ideas include:

- Understanding the likelihood of events.
- Calculating simple probabilities.
- Combining probabilities using rules like addition and multiplication.
- Concept of independent and dependent events.

- Inferential Statistics

While descriptive stats describe data, inferential statistics allow us to draw conclusions about larger

populations.

Main topics:

- Sampling methods and importance.
- Estimation (point estimates and confidence intervals).
- Hypothesis testing basics.

Practical Steps in Introductory Statistics Kokoska

Step 1: Collect Data

- Define your question or problem.
- Choose an appropriate sampling method (random, stratified, cluster).
- Gather data ethically and accurately.

Step 2: Summarize Data

- Calculate measures of central tendency and variability.
- Visualize data with plots.
- Identify outliers or anomalies.

Step 3: Analyze Data

- Explore relationships between variables using scatter plots or cross-tabulations.
- Calculate correlation coefficients.
- Conduct basic hypothesis tests if applicable.

Step 4: Interpret Results

- Draw conclusions based on data summaries and analysis.
- Consider limitations and potential biases.
- Communicate findings clearly.

Common Techniques and Tools in Introductory Statistics Kokoska

Descriptive Methods

- Calculating means, medians, modes.
- Creating frequency distributions.
- Drawing histograms and box plots.

Probability Calculations

- Simple probability of single events.
- Compound probability for combined events.
- Use of probability trees and Venn diagrams.

Inferential Techniques

- Estimating population parameters with confidence intervals.
- Conducting t-tests for mean differences.
- Performing chi-square tests for categorical data.

Software and Resources

- Basic tools like Excel, Google Sheets.
- Introductory statistical software such as SPSS, R (for beginners).
- Educational resources, tutorials, and practice datasets.

Common Challenges in Introductory Statistics Kokoska and How to Overcome Them

- Misinterpreting Data

Solution: Focus on understanding what each statistic represents; avoid jumping to conclusions based solely on visualizations.

- Confusing Correlation and Causation

Solution: Remember that correlation indicates association, not causation. Consider study design and other factors.

- Overlooking Variability

Solution: Pay attention to measures like standard deviation and confidence intervals to understand data spread and uncertainty.

- Misapplying Statistical Tests

Solution: Learn the assumptions behind each test and verify whether data meet these conditions before application.

Tips for Success in Introductory Statistics Kokoska

- Practice Regularly: Work through exercises and real datasets.
- Visualize Data: Use plots to build intuition.
- Understand the Context: Always interpret statistics within the context of the data.
- Seek Clarification: Don't hesitate to ask instructors or peers when concepts are unclear.
- Utilize Resources: Use online tutorials, textbooks, and statistical software tutorials.

Conclusion

Mastering introductory statistics kokoska sets the stage for a deeper understanding of data analysis and interpretation. By grasping fundamental concepts like descriptive statistics, probability, and basic inference, learners develop critical thinking skills that empower them across academic, professional, and everyday contexts. Remember, the key to success lies in consistent practice, curiosity, and a willingness to question and explore data stories. As you progress in your statistical journey, these foundational principles will serve as reliable guides in navigating the complex and fascinating world of data.

Embark on your statistical adventure today by applying these principles to real-world data, and watch your confidence grow as you decode the stories hidden within numbers!

QuestionAnswer What is the primary focus of 'Introductory Statistics Kokoska'? 'Introductory Statistics Kokoska' is designed to introduce students to fundamental statistical concepts, methods, and data analysis techniques, providing a solid foundation for understanding and applying statistics. Who is the author of 'Introductory Statistics Kokoska'? The book 'Introductory Statistics Kokoska' is authored by Robert Kokoska, a renowned statistician and educator known for his clear explanations and engaging teaching style. What topics are covered in 'Introductory Statistics Kokoska'? 'Introductory Statistics Kokoska' covers topics such as descriptive statistics, probability theory, inferential statistics, hypothesis testing, confidence intervals, regression analysis, and data

visualization. Is 'Introductory Statistics Kokoska' suitable for beginners? Yes, the book is designed for beginners with little to no prior experience in statistics, offering accessible language and practical examples to facilitate learning. Does 'Introductory Statistics Kokoska' include real-world data examples? Absolutely, the book incorporates numerous real-world data examples to help students understand how statistical methods apply to everyday situations and various fields. Are there any online resources associated with 'Introductory Statistics Kokoska'? Many editions of 'Introductory Statistics Kokoska' come with supplementary online resources, including datasets, practice problems, and instructional videos to enhance learning. Is 'Introductory Statistics Kokoska' suitable for online or hybrid courses? Yes, the book's clear explanations and accompanying resources make it well-suited for online, hybrid, and in-person introductory statistics courses. What pedagogical features does 'Introductory Statistics Kokoska' offer? The book features chapter summaries, review questions, practice exercises, and real data analysis projects to reinforce learning and assess understanding. Can 'Introductory Statistics Kokoska' be used as a textbook for college courses? Yes, it is widely used as a primary textbook for introductory college-level statistics courses due to its comprehensive coverage and student-friendly approach. Where can I purchase or access 'Introductory Statistics Kokoska'? 'Introductory Statistics Kokoska' is available through major book retailers, university bookstores, and online platforms such as Amazon, or through institutional access if provided by your educational institution.

Related keywords: introductory statistics, Kokoska, statistics textbook, basic statistics, descriptive statistics, probability theory, statistical analysis, data analysis, statistical methods, learning statistics

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