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The Central Limit Theorem

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Chapter 9 Hypothesis Testing
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Learning Statistics with R

Statistical Applications

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If you want to outsmart a crook, learn his tricks—Darrell Huff explains exactly how in the classic *How to Lie with Statistics*. From distorted graphs and biased samples to misleading averages, there are countless statistical dodges that lend

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cover to anyone with an ax to grind or a product to sell. With abundant examples and illustrations, Darrell Huff's lively and engaging primer clarifies the basic principles of statistics and explains how they're used to present information in

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honest and not-so-honest ways. Now even more indispensable in our data-driven world than it was when first published, *How to Lie with Statistics* is the book that generations of readers have relied on to keep from being fooled.

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"Learning Statistics with R" covers the contents of an introductory statistics class, as typically taught to undergraduate psychology students, focusing on the use of the R statistical software and adopting a light, conversational style

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throughout. The book discusses how to get started in R, and gives an introduction to data manipulation and writing scripts. From a statistical perspective, the book discusses descriptive statistics and graphing first, followed by chapters

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on probability theory, sampling and estimation, and null hypothesis testing. After introducing the theory, the book covers the analysis of contingency tables, t-tests, ANOVAs and regression. Bayesian statistics are covered at the end of

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the book. For more information (and the opportunity to check the book out before you buy!) visit

<http://ua.edu.au/ccs/teaching/lsr> or
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emphasizes its role as a problem-solving tool. In addition, light-hearted case studies illustrate the application of statistics to real data analyses, highlighting the strengths and weaknesses of commonly used techniques. Written for the growing

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Featured concepts include: •

Descriptive statistics • Analysis of variance • Probability and sample distributions • Confidence intervals • Hypothesis tests • Regression • Statistical correlation • Data collection • Statistical analysis with

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graphs Fun and inviting from beginning to end, *The Art of Data Analysis* is an ideal book for students as well as managers and researchers in industry, medicine, or government who face statistical questions and are in need of an

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intuitive understanding of basic
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Introductory Statistics

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analyses (particularly
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highlight the topics under discussion using published and unpublished research and contain biographical sketches of luminaries in the field of statistics. Each chapter concludes

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*with an extended summary,
the relevant formulas and
numerous work problems.*

*INTERMEDIATE ALGEBRA:
CONNECTING CONCEPTS
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traditional mathematical skills in real-world contexts. The emphasis on skill building and applications engages students as they master concepts, problem solving,

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*It modifies the rule of
four, integrating
algebraic techniques,
graphing, the use of data
in tables, and writing
sentences to communicate*

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solutions to application problems. The authors have developed several key ideas to make concepts real and vivid for students. First, the authors integrate

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applications, drawing on real-world data to show students why they need to know and how to apply math. The applications help students develop the skills needed to explain

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the meaning of answers in the context of the application. Second, they emphasize strong algebra skills. These skills support the applications and enhance student

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comprehension. Third, the authors use an eyeball best-fit approach to modeling. Doing models by hand helps students focus on the characteristics of each function type.

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Fourth, the text underscores the importance of graphs and graphing. Students learn graphing by hand, while the graphing calculator is used to display real-life data

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*problems. In short,
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an application-driven
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contain detailed studies
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