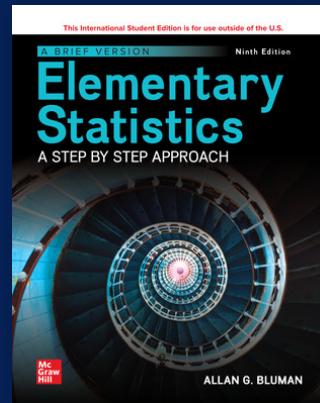


Elementary Statistics: A Brief Version, 9e

Allan Bluman

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Overview

Elementary Statistics: A Brief Version was written as an aid in the beginning Statistics course for students whose mathematical background is limited to basic algebra. The book follows a non-theoretical approach without formal proofs, explaining concepts intuitively and supporting them with abundant examples. The applications span a broad range of topics including problems in business, sports, health, architecture, education, entertainment, political science, psychology, history, criminal justice, and many more. While a number of important changes have been made in this next edition, the learning system remains untouched and provides students with a useful framework in which to learn and apply concepts.

What You Need to Know

- Over 1200 exercises are located at the end of major sections within each chapter.
- Hypothesis-Testing Summaries are found at the end of Chapter 9 (z, t, x, and F tests for testing means, proportions, and variances) and Chapter 11 (correlation, chi-square, and ANOVA) show students the different types of hypotheses and the types of tests to use.
- A Data Bank listing various attributes for 100 people and several additional data sets using real data are included in various projects throughout the book.
- Chapter Quizzes, found at the end of each chapter, include multiple-choice, true/false, and completion questions along with exercises and projects throughout the book.

Writing Style

Procedural-style approach that emphasizes student technical understanding of key concepts

Course Level

Elementary Statistics

Duration of Course

1 Semester

Table of Contents

1. The Nature of Probability and Statistics
2. Frequency Distributions and Graphs
3. Data Description
4. Probability and Counting Rules
5. Discrete Probability Distributions
6. The Normal Distribution
7. Confidence Intervals and Sample Size
8. Hypothesis Testing
9. Testing the Difference Between Two Means, Two Proportions, and Two Variances
10. Correlation and Regression
11. Chi-Square and Analysis of Variance (ANOVA)

Appendices

- A. Tables
- B. Data Bank
- C. Glossary
- D. Selected Answers

Annotated Instructor's Edition replaces Appendix D with all answers and additional material for instructors.

- E. Important Formulas

Additional Topics (Available online in ALEKS 360)

- Algebra Review
- Writing the Research Report
- Bayes' Theorem
- Alternate Approach to the Standard Normal Distribution
- Bibliography

- ✓ The new edition now includes over 100 new or updated examples AND over 550 new or updated exercises.
- ✓ The Technology Tips sections have been updated throughout the text.
- ✓ Excel-specific explanations have been added to assignable textbook exercises within ALEKS.

Chapter-by-Chapter

Chapter 1

- New Statistics Today example.
- New statistical examples to introduce how statistics are used today.

Chapter 2

- Updated Statistics Today example.

Chapter 5

- Section 5–3 now includes solving problems using the combination formula in addition to the binomial formula.

Chapters 7, 8, and 9

- These chapters have been revised to allow professors who want to teach proportions before means to do so. They should cover the first sections of these chapters and then skip to the proportions sections, and then do the means sections. For those who prefer to teach means before proportions, just follow the sequence of the book.

Chapters 8, 9, 10, 11

- These chapters allow professors to teach hypothesis testing using the P-value. It should be noted that some P-values obtained by technology may differ from those in the book since the calculations of P-values depend on the number of decimal places the technology uses to compute the test values.

Big Changes in this Release

- ✓ Elementary Statistics: A Brief Version is now available exclusively in ALEKS®. ALEKS is a course assistant that helps Math instructors forge constructive learning paths for their students – blending personalized modules with instructor-driven assignments to ensure every student always has another block to build on their knowledge base.