

# Instructor's Resource Guide



## Understanding Basic Statistics

Second Edition

Brase/Brase

# Instructors Resource Guide Understanding Basic Statistics

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Barrett, George A. Morgan**



## **Instructors Resource Guide Understanding Basic Statistics:**

**Understanding Basic Statistics** Charles Henry Brase, Corrinne Pellillo Brase, 2001 Designed specifically to present the core topics offered in a one semester statistics course without overwhelming introductory students Understanding Basic Statistics 2 e includes material on descriptive statistics probability estimation and hypothesis testing with clear early coverage of linear regression Carefully chosen problems throughout the text drawn from a variety of disciplines and labeled for easy access enable students to use real data to draw conclusions and interpret results Working through high interest relevant exercises students are encouraged to apply their knowledge and to see how statistics affects their daily lives The authors carefully guide students through the material with step by step instructions guided exercises and technology tips and a wealth of supplements print software and video enhances both teaching and learning ViewPoints brief essays presenting diverse situations in which statistics are used appear before each section problem set Many of these essays refer students to a web site for further exploration The text is available with the student version of Minitab software as well as with a text specific ComputerStat disk Students learn the power and efficiency of manipulating large sets of imported data analyzing the information and interpreting the results Using Technology Sections featuring a variety of data for analysis using a computer software program or a graphing calculator include screen displays from Minitab and the TI 83 calculator ComputerStat and new material on Excel Additional features include Guided Exercises with completely worked out solutions Linking Concepts writing exercises DataHighlights group projects and Calculator Notes

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Morgan, 2012-03-29 Designed to help readers analyze and interpret research data using IBM SPSS this user friendly book shows readers how to choose the appropriate statistic based on the design perform intermediate statistics including multivariate statistics interpret output and write about the results The book reviews research designs and how to assess the accuracy and reliability of data whether data meet the assumptions of statistical tests how to calculate and interpret effect sizes for intermediate statistics including odds ratios for logistic and discriminant analyses how to compute and interpret post hoc power and an overview of basic statistics for those who need a review Unique chapters on multilevel linear modeling multivariate analysis of variance MANOVA assessing reliability of data and factor analysis are provided SPSS syntax along with the output is included for those who prefer this format The new edition features IBM SPSS version 19 although the book can be used with most older and newer versions expanded discussion of assumptions and effect size measures in several chapters expanded discussion of multilevel modeling expansion of other useful SPSS functions in Appendix A examples that meet the new formatting guidelines in the 6th edition of the APA Publication Manual 2010 flowcharts and tables to help

select the appropriate statistic and interpret statistical significance and effect sizes multiple realistic data sets available on the website used to solve the chapter problems password protected Instructor s Resource materials with PowerPoint slides answers to interpretation questions and extra SPSS problems and chapter outlines and study guides IBM SPSS for Intermediate Statistics Fourth Edition provides helpful teaching tools all of the key SPSS windows needed to perform the analyses outputs with call out boxes to highlight key points interpretation sections and questions to help students better understand and interpret the output extra problems using multiple realistic data sets for practice in conducting analyses using intermediate statistics helpful appendices on how to get started with SPSS writing research questions and review of basic statistics An ideal supplement for courses in either intermediate advanced statistics or research methods taught in departments of psychology education and other social and health sciences this book is also appreciated by researchers in these areas looking for a handy reference for SPSS

IBM SPSS for Intermediate Statistics Nancy L. Leech, Karen C. Barrett, George A. Morgan, 2014-08-05 Designed to help readers analyze and interpret research data using IBM SPSS this user friendly book shows readers how to choose the appropriate statistic based on the design perform intermediate statistics including multivariate statistics interpret output and write about the results The book reviews research designs and how to assess the accuracy and reliability of data how to determine whether data meet the assumptions of statistical tests how to calculate and interpret effect sizes for intermediate statistics including odds ratios for logistic analysis how to compute and interpret post hoc power and an overview of basic statistics for those who need a review Unique chapters on multilevel linear modeling multivariate analysis of variance MANOVA assessing reliability of data multiple imputation mediation moderation and canonical correlation and factor analysis are provided SPSS syntax with output is included for those who prefer this format The new edition features IBM SPSS version 22 although the book can be used with most older and newer versions New discussion of intraclass correlations Ch 3 Expanded discussion of effect sizes that includes confidence intervals of effect sizes ch 5 New information on part and partial correlations and how they are interpreted and a new discussion on backward elimination another useful multiple regression method Ch 6 New chapter on how to use a variable as a mediator or a moderator ch 7 Revised chapter on multilevel and hierarchical linear modeling ch 12 A new chapter ch 13 on multiple imputation that demonstrates how to deal with missing data Updated web resources for instructors including PowerPoint slides and answers to interpretation questions and extra problems and for students data sets chapter outlines and study guides IBM SPSS for Intermediate Statistics Fifth Edition provides helpful teaching tools all of the key SPSS windows needed to perform the analyses outputs with call out boxes to highlight key points interpretation sections and questions to help students better understand and interpret the output extra problems with realistic data sets for practice using intermediate statistics Appendices on how to get started with SPSS write research questions and basic statistics An ideal supplement for courses in either intermediate advanced statistics or research methods taught in departments of psychology education and

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Instructors Resource Guide Understanding Basic Statistics**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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