



AP Statistics (Advanced Placement (AP) Test Preparation)

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Get the AP college credits you've worked so hard for... Our savvy test experts show you the way to master the test and score higher. This new and fully expanded edition examines all AP Statistics areas including in-depth coverage of univariate and bivariate data, measures of dispersion, sampling, and hypothesis testing. The comprehensive review covers every possible exam topic: exploring data, planning a study, anticipating patterns, and statistical inferences. Features 6 full-length practice exams with all answers thoroughly explained.

Follow up your study with REA's test-taking strategies, powerhouse drills and study schedule that get you ready for test day.

DETAILS

- Comprehensive, up-to-date subject review of every AP Statistics topic used in the AP exam.
- Study schedule tailored to your needs
- Packed with proven key exam tips, insights and advice
- 6 full-length practice exams. All exam answers are fully detailed with easy-to-follow, easy-to-grasp explanations.

TABLE OF CONTENTS

About Research & Education Association

Independent Study Schedule

CHAPTER 1 - SUCCEEDING IN AP STATISTICS

About The Advanced Placement Program

The AP Statistics Exam

About the Review Sections

Scoring the Exam

Scoring the Multiple-Choice Section

Scoring the Free-Response Questions

The Composite Score

Scores that Receive College Credit and/or Advanced Placement

Studying for Your AP Examination

Test-Taking Tips

CHAPTER 2 - EXPLORING DATA

Exploring Univariate Data

Standardized Scores (Z-Scores)

Exploring Bivariate Data

Exploring Categorical Data: Frequency Tables

Measures of Central Tendency

Range and Percentiles

Measures of Dispersion

Simplified Methods for Computing the Standard Deviation and Variance

Sampling Error

CHAPTER 3 - PLANNING A STUDY

Methods of Data Collection

Planning and Conducting Surveys

Planning and Conducting Experiments

CHAPTER 4 - ANTICIPATING PATTERNS

Review of Laws of Large Numbers

Conditional Probabilities and Independence

Discrete Random Variables

Mathematical Expectation of Discrete Random Variables

Normal Distribution

Sampling Distributions

CHAPTER 5 - STATISTICAL INFERENCES

Confidence Intervals

Hypothesis Testing

Type I and Type II Errors

Hypothesis Testing - Single Sample

Hypothesis Testing for Two Populations

PRACTICE TEST 1

Test 1

Test 1 Answer Key

Detailed Explanations of Answers

PRACTICE TEST 2

Test 2

Test 2 Answer Key

Detailed Explanations of Answers

PRACTICE TEST 3

Test 3

Test 3 Answer Key

Detailed Explanations of Answers

PRACTICE TEST 4

Test 4

Test 4 Answer Key

Detailed Explanations of Answers

PRACTICE TEST 5

Test 5

Test 5 Answer Key

Detailed Explanations of Answers

PRACTICE TEST 6

Test 6

Test 6 Answer Key

Detailed Explanations of Answers

APPENDIX: FORMULAS AND TABLES

ANSWER SHEETS

EXCERPT

About Research & Education Association

Research & Education Association (REA) is an organization of educators, scientists, and engineers specializing in various academic fields. Founded in 1959 with the purpose of disseminating the most recently developed scientific information to groups in industry, government, high schools, and universities, REA has since become a successful and highly respected publisher of study aids, test preps, handbooks, and reference

works.

REA's Test Preparation series includes study guides for all academic levels in almost all disciplines. Research & Education Association publishes test preps for students who have not yet completed high school, as well as high school students preparing to enter college. Students from countries around the world seeking to attend college in the United States will find the assistance they need in REA's publications. For college students seeking advanced degrees, REA publishes test preps for many major graduate school admission examinations in a wide variety of disciplines, including engineering, law, and medicine. Students at every level, in every field, with every ambition can find what they are looking for among REA's publications.

While most test preparation books present practice tests that bear little resemblance to the actual exams, REA's series presents tests that accurately depict the official exams in both degree of difficulty and types of questions. REA's practice tests are always based upon the most recently administered exams, and include every type of question that can be expected on the actual exams.

REA's publications and educational materials are highly regarded and continually receive an unprecedented amount of praise from professionals, instructors, librarians, parents, and students. Our authors are as diverse as the fields represented in the books we publish. They are well-known in their respective disciplines and serve on the faculties of prestigious high schools, colleges, and universities throughout the United States and Canada.

Chapter 1 - SUCCEEDING IN AP STATISTICS

The objective of this book is to prepare you for the Advanced Placement Examination in Statistics by providing you with an accurate representation of the test. Toward that end, we provide an extensive review and practice tests that cover the material one would expect to study in a typical Advanced Placement course and see on the exam itself.

Six full-length practice Statistics exams are provided. Following each practice exam is an answer key and a detailed explanation for every question. The explanations not only provide the correct response but also explain why none of the remaining answers is the best choice.

By studying the appropriate review sections, taking the corresponding exams, and studying the answer explanations, you can discover your strengths and weaknesses, and prepare yourself to score well on the AP Statistics examination.

ABOUT THE ADVANCED PLACEMENT PROGRAM

The Advanced Placement program consists of two components: an AP course and an AP exam. Advanced Placement examinations are offered each May at participating schools and multischool centers throughout the world. The Advanced Placement program is designed to provide high school students with the opportunity to pursue college-level studies while still attending high school. In turn, the participating colleges grant credit and/or advanced placement to students who do well on the examination.

The AP Statistics course is designed to represent the content of a typical introductory college course in statistics. The full-year course covers the skills and knowledge expected of students in the field of introductory statistics. The course is intended for high school students who wish to complete studies equivalent to a one-semester, non-calculus-based college course in statistics. Additional information about the AP program and the AP Statistics exam is available by contacting:

AP Services

Educational Testing Service
P.O. Box 6671
Princeton, NJ 08541-6671
Phone: (609) 771-7300
Fax: (609) 530-0482
E-mail: apexams@ets.org
Website: <http://www.collegeboard.com>

THE AP STATISTICS EXAM

The AP Statistics exam lasts 180 minutes and is divided into two sections:

I. Multiple-Choice (50% of your grade): This 90-minute section is composed of 35 questions designed to test your proficiency in a wide variety of topics. The questions test examinees' ability to explore data, plan a statistical study, anticipate patterns, and make statistical inferences.

II. Free-Response (a combined 50% of your grade): This 90-minute section requires the student to answer four to seven open-ended questions and to complete one investigative task question involving more extended reasoning. Each open-ended question has been created to be answered in approximately 10 minutes. The longer investigative-task question has been created to be answered in approximately 30 minutes. The questions require students to relate different content areas as they plan an extensive solution to a statistics or probability problem. Students are expected to use their analytical and organizational skills to formulate cogent answers in writing their responses. It will be expected that students will show enough of their work to allow the readers to be able to follow their logic.

Note that it is not necessary to write out routine statistical calculations that can be done on a calculator. Each student is expected to bring a calculator with statistical capabilities to the examination. The computational capabilities of the calculator should include common univariate and bivariate summaries through linear regression. The graphical capabilities of the calculator should include common univariate and bivariate displays such as boxplots, histograms, and scatterplots. Most graphing calculators on the market are acceptable; non-graphing calculators are allowed only if they have the computational capabilities described previously. The following, however, are not permitted: powerbooks and portable computers, pocket organizers, electronic writing pads, pen input devices, or devices with typewriter-style, or QWERTY, keyboards.

ABOUT THE REVIEW SECTIONS

As mentioned earlier, this book has a review chapter for each of the four topics covered on the exam. The following are the four review chapters in this book that cover the topics on the AP Statistics:

- Exploring Data
- Planning a Study
- Anticipating Patterns
- Statistical Inferences

The review chapters provide a thorough discussion of the material tested on the exam. By studying the review chapters and by taking the practice test(s), you can prepare yourself to score high on the AP Statistics exam.

SCORING THE EXAM

The multiple-choice section of the exam is scored by crediting each correct answer w...

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Todd Jacobs:

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Linda Gaitan:

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Casey Timmons:

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