



# Best Test Prep AP Statistics with CD-ROM (Advanced Placement (AP) Test Preparation)

By Robin Levine-Wissing, David Thiel

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REA's new TESTware edition of AP Statistics 3rd edition is completely aligned with the 2006 AP Statistics exam. Covers 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 exam topic: exploring data, planning a study, anticipating patterns, and statistical inferences. The book features 5 full-length practice exams, with 2 of them on CD-ROM in a timed format with instant scoring. All answers are thoroughly explained. Follow up study with REA's test-taking strategies and test-day tips.

### 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
- 5 full-length practice exams. All exam answers are fully detailed with easy-to-follow, easy-to-grasp explanations.
- Complete with detailed answer explanations for every question, test-taking strategies and drills, plus a study schedule that gets you ready for test day.

### TESTware software on CD-ROM features:

- 2 full-length, timed practice exams in computerized format for the closest experience to taking a live exam
- Automatic and accurate scoring for immediate feedback
- Detailed, on-screen explanations for all questions

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### Editorial Review

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### Making the Grade on the AP Statistics Exam

#### ABOUT THE book and TESTware®

This book and the accompanying software provides an accurate and complete representation of the Advanced Placement Statistics Examination. The four full-length practice exams included are based on the most recently administered AP Statistics Exam. Each of our practice tests is designed within the official timeframe of a 3-hour administration and includes every type of question that you can expect to encounter on the actual exam. Following each of our practice exams is an answer key complete with detailed explanations designed to clarify and contextualize the material for you. Practice Tests 1 and 2 are included in two formats: in printed form in this book and in TESTware® format on the enclosed CD. **We recommend that you begin your preparation by first taking the computerized version of your test.** The software provides timed conditions and instantaneous, accurate scoring, which makes it all the easier to pinpoint your strengths and weaknesses.

In addition, to help make your preparation for the exam more realistic and to aid you in brushing up on areas of weakness, the following are provided at the end of this book:

- Actual formula sheets and statistical tables that you will be given to use during the AP Statistics Examination. (Appendix A)
- A glossary of key terms. (Appendix B)
- A cross-reference of the practice exam problems and the topics in the AP Statistics Topic Outline they test. (Appendix C)

By studying the review section, completing all four practice exams, and studying our step-by-step explanations, you will pinpoint your strengths and weaknesses and, above all, put yourself in the best possible position to master the AP Statistics Examination.

#### ABOUT THE EXAM

The Advanced Placement Statistics Examination is 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. The results of these exams are used by colleges and universities in the awarding of credit for introductory courses and placement in programs of study.

The Advanced Placement Statistics Course is designed to be the equivalent of an introductory college course. The AP Statistics Exam covers material in the following areas:

1.

Exploring Data: Describing patterns and departures from patterns (20–30%);

Sampling and Experimentation: Planning and conducting a study (10–15%);

3.

Anticipating Patterns: Exploring random phenomena using probability and simulation (20–30%);

4.

Statistical Inference: Estimating population parameters and testing hypotheses (30–40%);

Each review chapter in this book covers one of the four content areas.

#### Format of the Exam

The AP Statistics Exam consists of two 90-minute sections:

- Section I consists of 40 multiple-choice questions, each with five possible answers. This section counts 50% of the examination grade.
- Section II counts 50% of the examination grade and is made up of two parts.

(a)

Part A is five free-response questions. Each question is designed to be answered in approximately 12 minutes. This part counts for 75% of the Section II score.

(b)

Part B is one question known as the “investigative task.” It tests several concepts and procedures from multiple content areas in the context of a single problem. This investigative task is designed to be answered in about 30 minutes and counts as 25% of the Section II score.

In Section I, you will earn one point for each correct answer and lose one-fourth of a point for each incorrect answer.

In Section II, each problem is scored holistically on a 0–4 scale. These scores can be generally interpreted as follows:

- 4 = Complete Response
- 3 = Substantial Response
- 2 = Developing Response
- 1 = Minimal Response
- 0 = No Credit

Each problem in Section II is scored for accuracy and completeness of statistical methods, and on the strength of communication. About half of the score on any problem can be considered to be how well you communicate about the concepts involved and the conclusions you reach. Calculations alone will not earn full credit.

For more information about the scoring of the free-response and investigative task sections of the exam, visit the College Board website at

[www.collegeboard.com](http://www.collegeboard.com).

### **The Use of Calculators**

Graphing calculators with statistical capabilities can be used during the AP Statistics Exam. Each student is expected to bring his or her own on exam day. Although it is possible to do well on the exam without a calculator, not having one is a disadvantage. In fact, you are allowed to bring two calculators, if you wish. Each student should have a working calculator to aid in computation and performing statistical procedures. Know how to use it before going into the exam. An unfamiliar calculator will be a hindrance during the exam. Practice using it.

Only certain calculators are allowed on the AP Statistics Exam. Calculators with QWERTY-type keyboards or those with paper tape printers are not allowed. A complete list of those allowed and disallowed can be found on College Board’s Web site at [www.collegeboard.com/student/testing/ap/sub\\_stats.html?stats](http://www.collegeboard.com/student/testing/ap/sub_stats.html?stats).

This book has calculator instructions for the Texas Instruments TI-84 series calculators. Nearly all instructions can be used for the TI-83 series, but some commands on TI-84 are not available on TI-83. If you have questions about the capabilities of your calculator, consult your owner’s manual.

Finally, the calculator is a tool and not a substitute for knowledge. You must be able to communicate clearly and demonstrate your understanding of statistics. Simply writing down a computation from the calculator may earn little or no credit. Remember, although this book has calculator instruction so that you can use it as a tool on the exam, this book also takes you through the steps to be successful without a calculator.

### **HOW TO USE THIS BOOK AND TESTware®**

#### **What do I study first?**

To begin your studies, read over this introduction and the suggestions for test taking. Take Practice Test 1 on CD-ROM. This will allow you to determine your strengths and weaknesses. Next, study the course review material focusing on your specific problem areas. The course review includes the information you need to know when taking the exam. Then take Practice Test 2 on CD-ROM and Practice Tests 3 and 4 in this book.

To best utilize your study time, follow our Independent Study Schedule, which you will find in the front of this book.

### **SSD accommodations for students with disabilities**

Many students qualify for extra time to take the AP Exams and our TESTware® can be adapted to accommodate your time extension. This allows you to practice under the same extended time accommodations that you will receive on the actual test day. To customize your TESTware® to suit the most common extensions, visit our website at [www.rea.com/ssd](http://www.rea.com/ssd).

### **SCORING THE EXAM**

#### **How Do I Score My Practice Tests?**

The multiple-choice section of the exam is scored by crediting each correct answer with one point and deducting one-fourth of a point for each incorrect answer. Unanswered questions receive neither credit nor deduction.

The free-response questions are graded by readers chosen from around the country for their familiarity with the AP Program. Each free-response question is read and scored with the reader providing the score on a 0-to-4 (0 being the lowest and 4 the highest) scale. The free-response questions are scored on the basis of the statistical knowledge and communication the student used to answer the question. The statistical knowledge criteria include identifying the important concepts of the problem and demonstrating statistical concepts and techniques that result in a correct solution of the problem. The communication criteria include an explanation of what was done and why, along with a statement of conclusions drawn. Once the free-response questions have been graded by all of the readers, the scores are converted. The open-ended questions count as 75% of the free-response score; the investigative-task question counts as 25%.

#### **Scoring the Multiple-Choice Section**

For the multiple-choice section, use the following formula to calculate your raw score:

– 3 1/4)

Note: Do not include unanswered questions in the formula.

#### **Scoring the Free-Response Questions**

For the free-response section, use the following formula to calculate your raw score:

### **The Composite Score**

To obtain your composite score, use the following method:

Your score on the multiple-choice section and your grade on the free-response section are combined and converted to the program's 5-point scale:

5—extremely well-qualified      2—possibly qualified  
4—well-qualified      &#...

### **Users Review**

#### **From reader reviews:**

##### **Henry Major:**

Have you spare time for the day? What do you do when you have considerably more or little spare time? Yes, you can choose the suitable activity with regard to spend your time. Any person spent their particular spare time to take a wander, shopping, or went to the actual Mall. How about open or maybe read a book allowed Best Test Prep AP Statistics with CD-ROM (Advanced Placement (AP) Test Preparation)? Maybe it is to get best activity for you. You already know beside you can spend your time with your favorite's book, you can wiser than before. Do you agree with the opinion or you have additional opinion?

**Krystal Harris:**

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**Ronald Ruggles:**

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