

2019 ap stats frq solutions

2019 ap stats frq solutions provide comprehensive and detailed answers to the free-response questions from the 2019 Advanced Placement Statistics exam. These solutions are essential for students preparing for the AP Stats test, as they illustrate the problem-solving process step-by-step, clarify statistical concepts, and demonstrate the application of formulas and reasoning required to achieve high scores. Understanding these solutions enhances familiarity with the exam format and types of questions typically encountered. This article explores each FRQ from the 2019 AP Stats exam, breaking down the problems and offering clear, methodical solutions to aid in exam preparation. Additionally, it highlights key strategies for tackling free-response questions effectively. The following sections present a thorough overview of the 2019 AP Stats FRQ solutions, including problem analysis, solution approaches, and tips for mastering statistical reasoning.

- Overview of the 2019 AP Stats FRQ
- Detailed Solutions to Each FRQ
- Key Statistical Concepts Covered
- Strategies for Solving AP Stats FRQs
- Common Mistakes and How to Avoid Them

Overview of the 2019 AP Stats FRQ

The 2019 AP Stats free-response questions (FRQs) consist of a series of problems designed to test students' understanding of statistical concepts, data analysis, and interpretation skills. Each FRQ requires concise, evidence-based responses that demonstrate mastery of key topics such as probability, inference, regression, experimental design, and sampling methods. The exam emphasizes the ability to apply statistical techniques in practical contexts and to communicate findings clearly and accurately. The 2019 exam included a mix of question types, ranging from hypothesis testing to interpreting graphical data and calculating confidence intervals.

Structure and Content

The 2019 AP Stats FRQ section featured six questions, each with multiple parts. These questions progressively incorporated multiple skills, requiring students to interpret data sets, perform calculations, and justify conclusions. The problems often presented real-world scenarios to contextualize statistical analysis, challenging students to connect theory with application.

Scoring and Expectations

Students were evaluated on the accuracy of their calculations, the logic of

their reasoning, and the clarity of their explanations. Partial credit was awarded for demonstrating understanding even when numerical answers were incorrect. The solutions emphasize a stepwise approach, showing how to navigate from problem statement to final answer with correct terminology and notation.

Detailed Solutions to Each FRQ

This section provides in-depth solutions for all six 2019 AP Stats FRQs. Each problem is broken down into parts, highlighting the approach to finding the correct answer while explaining relevant formulas and statistical principles. These solutions model the ideal responses expected by exam graders.

FRQ 1: Exploring Sampling Methods and Bias

The first question typically addressed sampling techniques and potential sources of bias. The solution involves identifying appropriate sampling methods and explaining how bias could affect the results.

1. Define simple random sampling, stratified sampling, and cluster sampling.
2. Explain scenarios where each method is applicable.
3. Describe possible bias, such as nonresponse bias or selection bias.

FRQ 2: Probability and Random Variables

This question focused on calculating probabilities associated with discrete or continuous random variables. The solution requires applying probability rules, calculating expected values, and interpreting results in context.

1. Use probability rules (addition, multiplication) to find event probabilities.
2. Calculate expected value and standard deviation for given distributions.
3. Interpret the meaning of calculated statistics in the problem's context.

FRQ 3: Confidence Intervals and Hypothesis Testing

Students were tasked with constructing confidence intervals and conducting hypothesis tests. The solution involves selecting the correct formula, verifying conditions, and interpreting the outcome.

1. Check assumptions such as normality and sample size.
2. Calculate margin of error and construct confidence intervals.

3. Set up null and alternative hypotheses and perform the test.
4. Make conclusions based on p-values or confidence intervals.

FRQ 4: Regression Analysis

This problem examined linear regression concepts including interpreting slope and intercept, calculating residuals, and assessing model fit.

1. Interpret the slope and intercept in context.
2. Calculate predicted values and residuals.
3. Analyze the coefficient of determination (R^2) and correlation coefficient (r).

FRQ 5: Experimental Design and Causation

Students analyzed experimental setups, identifying variables, control methods, and potential confounding factors.

1. Define explanatory and response variables.
2. Describe randomization, control groups, and blinding.
3. Discuss how the design supports or limits causal inference.

FRQ 6: Chi-Square Tests and Categorical Data

This question required performing chi-square tests for goodness-of-fit or independence, including calculations and interpretation.

1. Calculate expected counts for categories.
2. Compute chi-square test statistic.
3. Determine degrees of freedom and interpret p-values.

Key Statistical Concepts Covered

The 2019 AP Stats FRQ solutions encompass fundamental and advanced statistical topics crucial for mastering the exam. Understanding these concepts allows students to approach a wide variety of problems confidently and accurately.

Sampling and Data Collection

Knowledge of different sampling methods and their implications for bias and variability is essential. Proper data collection techniques ensure the validity of statistical conclusions.

Descriptive Statistics and Probability

Calculating measures of central tendency, variation, and probability sets the foundation for making inferences about populations based on samples.

Statistical Inference

Constructing confidence intervals and performing hypothesis tests form the core of inferential statistics. These skills enable students to assess evidence and draw conclusions supported by data.

Regression and Correlation

Linear regression analysis helps in modeling relationships between variables, while correlation quantifies the strength and direction of associations.

Experimental Design and Validity

Understanding experimental principles such as randomization and control is critical for designing studies that yield reliable, unbiased results.

Categorical Data Analysis

Chi-square tests assess relationships between categorical variables, broadening the range of data types students can analyze.

Strategies for Solving AP Stats FRQs

Successful completion of AP Stats free-response questions requires more than knowledge; it demands effective strategies to organize and communicate solutions clearly and accurately.

Read the Problem Carefully

Thoroughly understanding what each question asks prevents misinterpretation and guides the selection of appropriate methods.

Show All Work Clearly

Detailed calculations and explanations demonstrate comprehension and allow partial credit if the final answer is incorrect.

Use Proper Statistical Terminology

Accurate use of terms like “p-value,” “confidence interval,” and “null hypothesis” reflects mastery and meets AP grading criteria.

Check Conditions and Assumptions

Verifying that data meet the assumptions for specific tests or models ensures valid conclusions and can earn additional points.

Organize Answers Logically

Presenting responses in a clear, step-by-step format makes it easier for graders to follow reasoning and award credit.

Review and Revise Responses

Double-checking calculations and clarifying explanations reduces errors and strengthens the overall quality of answers.

Common Mistakes and How to Avoid Them

Identifying frequent errors in 2019 AP Stats FRQ solutions helps students avoid pitfalls that can cost valuable points on the exam.

Ignoring Assumptions

Failing to verify conditions such as normality or independence can invalidate conclusions. Always state and check assumptions explicitly.

Incomplete Explanations

Providing numerical answers without justification or interpretation reduces clarity. Every answer should include reasoning and context.

Misapplication of Formulas

Using incorrect formulas or mixing up statistics (e.g., standard deviation vs. standard error) leads to inaccurate results.

Forgetting Units and Context

Answers should include appropriate units and relate back to the problem scenario to demonstrate full understanding.

Calculation Errors

Arithmetic mistakes are common but avoidable through careful work and review.

Overlooking Residuals and Model Fit

In regression problems, neglecting to analyze residuals or explain the goodness of fit weakens the response.

Frequently Asked Questions

What topics are covered in the 2019 AP Statistics FRQ solutions?

The 2019 AP Statistics FRQ solutions cover topics such as experimental design, probability, inference about proportions, regression analysis, and interpretation of statistical results.

Where can I find detailed step-by-step solutions for the 2019 AP Statistics FRQ?

Detailed step-by-step solutions for the 2019 AP Statistics FRQ can be found on the College Board website, AP Classroom resources, and educational platforms like Khan Academy and Math Planet.

How can the 2019 AP Stats FRQ solutions help me improve my exam performance?

Reviewing the 2019 AP Stats FRQ solutions helps you understand the format, types of questions asked, and the methodology for solving problems, which improves problem-solving skills and time management during the exam.

What is a common mistake students make in the 2019 AP Stats FRQ, according to the solutions?

A common mistake is misinterpreting the question prompts, especially in hypothesis testing and inference, such as confusing the null and alternative hypotheses or incorrectly stating conclusions based on p-values.

Are there alternative methods shown in the 2019 AP Stats FRQ solutions?

Yes, some solutions provide alternative approaches to solving problems, such as using different inference methods or calculations, to demonstrate flexibility in statistical reasoning and to help students understand concepts more deeply.

Additional Resources

1. *Mastering 2019 AP Statistics FRQ Solutions: A Step-by-Step Guide*

This comprehensive guide breaks down each free-response question from the 2019 AP Statistics exam. With detailed step-by-step solutions, it helps students understand the problem-solving process clearly. The book also includes tips on how to approach similar questions in future exams, making it an essential resource for exam preparation.

2. *2019 AP Statistics FRQs Explained: Strategies and Solutions*

Focused on the 2019 AP Statistics free-response questions, this book offers detailed explanations and strategic approaches to solving each problem. It emphasizes understanding key concepts and applying statistical methods efficiently. Students will find practice exercises and review sections to reinforce their learning.

3. *AP Statistics 2019 FRQ Workbook: Practice and Solutions*

This workbook provides practice problems modeled after the 2019 AP Statistics free-response questions, complete with fully worked-out solutions. It is designed to build confidence by offering extensive practice and thorough explanations. The format encourages active learning and self-assessment for students preparing for the exam.

4. *The Complete 2019 AP Statistics FRQ Companion*

A thorough companion for students tackling the 2019 AP Statistics free-response section, this book covers all questions with clear, concise solutions. It also provides review notes on crucial statistical concepts and formulas. The book is ideal for both initial study and last-minute review before the exam.

5. *2019 AP Statistics Free Response Questions: Detailed Solutions and Insights*

This resource delves deeply into each 2019 AP Statistics FRQ, offering insights into the reasoning behind each answer. It helps students develop a deeper understanding of statistical thinking and problem-solving techniques. The book also includes common pitfalls and how to avoid them.

6. *Effective Techniques for 2019 AP Statistics FRQ Success*

Targeting success in the 2019 AP Statistics free-response section, this book outlines effective problem-solving techniques and time management strategies. It breaks down complex questions into manageable parts and provides annotated solutions for clarity. Students will gain confidence and improve their exam performance.

7. *2019 AP Statistics FRQ Solutions and Review Guide*

This guide combines detailed solutions to the 2019 AP Statistics free-response questions with a comprehensive review of key concepts. It is structured to facilitate both learning and revision, making it suitable throughout the AP Statistics course. The explanations are student-friendly and designed to reinforce understanding.

8. *Stepwise Solutions to 2019 AP Statistics Free Response Questions*

This book offers a methodical approach to solving the 2019 AP Statistics FRQs, presenting solutions in clear, incremental steps. It helps students grasp the logical progression needed to tackle each problem efficiently. Additionally, it includes practice tips and example problems for further skill development.

9. *Unlocking the 2019 AP Statistics FRQ: Solutions and Exam Strategies*

Combining detailed answers with strategic advice, this book helps students unlock the challenges of the 2019 AP Statistics free-response section. It emphasizes critical thinking and application of statistical principles under exam conditions. The book is perfect for students aiming to maximize their AP exam scores.

2019 Ap Stats Frq Solutions

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2019 ap stats frq solutions: AP Q&A Statistics:With 600 Questions and Answers Barron's Educational Series, Martin Sternstein, 2020-08-11 Be prepared for exam day with Barron's. Trusted content from AP experts! Barron's AP Q&A Statistics features 600 questions with answer explanations designed to sharpen your critical thinking skills, provide practice for all AP question types, and maximize understanding of the concepts covered on the AP exam. Why Study with AP Q&A? Each practice question follows the AP Statistics curriculum and includes Exploratory Analysis, Collecting and Producing Data, Probability, and Statistical Inference All content is specifically created to provide practice for frequently tested topics on the AP Statistics exam Answers include comprehensive explanations-- you won't just learn why an answer is correct, you'll learn why the other choices are incorrect Check out Barron's AP Statistics Premium for even more review, full-length practice tests, and access to Barron's Online Learning Hub for a timed test option and automated scoring.

2019 ap stats frq solutions: 5 Steps to a 5: AP Statistics 2019 Elite Student Edition Duane C. Hinders, 2018-08-03 A PERFECT PLAN FOR THE PERFECT SCORE Score-Raising Features Include:

- 6 full-length practice exams, 3 in the book + 3 on Cross-Platform
- Hundreds of practice exercises with thorough answer explanations
- Comprehensive overview of the AP Statistics exam format
- Practice questions that reflect both multiple-choice and free-response question types, just like the ones you will see on test day
- Proven strategies specific to each section of the test

BONUS Cross-Platform Prep Course for extra practice exams with personalized study plans, interactive tests, powerful analytics and progress charts, flashcards, games, and more! (see inside front and back covers for details) 5 Minutes to a 5 section: 180 Questions and Activities that give you an extra 5 minutes of review for every day of the school year, reinforcing the most vital course material and building the skills and confidence you need to succeed on the AP exam The 5-Step Plan: Step 1: Set up your study plan with three model schedules Step 2: Determine your readiness with an AP-style Diagnostic Exam Step 3: Develop the strategies that will give you the edge on test day Step 4: Review the terms and concepts you need to achieve your highest score Step 5: Build your confidence with full-length practice exams

2019 ap stats frq solutions: AP Q&A Statistics Martin Sternstein, 2018-08-01 Barron's brand

new AP Q&A Statistics features 600 questions and explanations covering all AP Stat concepts. Practice includes all exam question types so students can apply the skills they learn in class, and answer explanations help students review and understand the content. AP Q&A Statistics doesn't just explain why an answer is correct—students will learn the rationale behind why each other answer choice is incorrect, helping them understand the key concepts and how to apply them on exam day. Practice questions and comprehensive explanations follow the AP Statistics curriculum and include Exploratory Analysis, Collecting and Producing Data, Probability, and Statistical Inference. AP Q&A Statistics is specifically created to help students hone critical thinking skills and practice with all AP-style question types, such as multiple-choice, numeric response, and short and long free-response questions. Looking for in-depth content review along with realistic practice tests? Try Barron's AP Statistics for even more prep.

2019 ap stats frq solutions: AP Statistics Premium, 2025: Prep Book with 9 Practice Tests + Comprehensive Review + Online Practice Martin Sternstein, 2024-07-02 Be prepared for exam day with Barron's. Trusted content from AP experts! Barron's AP Statistics Premium, 2025 includes in-depth content review and online practice. It's the only book you'll need to be prepared for exam day. Written by Experienced Educators Learn from Barron's--all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exam Get a leg up with tips, strategies, and study advice for exam day--it's like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test-taking skills with 9 full-length practice tests--6 in the book, including a diagnostic test to target your studying, and 3 more online--plus detailed answer explanations for all questions Strengthen your knowledge with in-depth review, including hundreds of examples and worked out solutions, covering all Units on the AP Statistics Exam Reinforce your learning with 29 quizzes throughout the book that feature hundreds of multiple-choice and free-response practice questions Boost your confidence by reviewing key reminders and pitfalls to avoid on test day, advice on selecting the appropriate inference procedure, guidance on calculator usage, and much more Online Practice Continue your practice with 3 full-length practice tests on Barron's Online Learning Hub Simulate the exam experience with a timed test option Deepen your understanding with detailed answer explanations and expert advice Gain confidence with scoring to check your learning progress

2019 ap stats frq solutions: Apex AP Statistics Kaplan Educational Center Staff, Learning Apex, 2001-05 This comprehensive guide for students preparing for the Apex AP Statistics test includes a full content review, special practice assignments with self-grading guidelines, hundreds of practice questions with answer explanations, and more. Charts & diagrams.

2019 ap stats frq solutions: Student's Solutions Manual to Accompany Multiple Choice and Free Response Questions for the AP Statistics Examination (2nd Edition) Michael Allwood, Bonnie Montgomery, 2009

2019 ap stats frq solutions: AP Statistics Premium, 2026: Prep Book with 9 Practice Tests + Comprehensive Review + Online Practice Barron's Educational Series, Martin Sternstein, 2025-08-05 Be prepared for exam day with Barron's. Trusted content from AP experts! Barron's AP Statistics Premium, 2026 includes in-depth content review and online practice. It's the only book you'll need to be prepared for exam day. This book is intended both as a topical review during the year and as a final review in the weeks before the AP exam. Written by Experienced Educators Learn from Barron's--all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exam Get a leg up with tips, strategies, and study advice for exam day--it's like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test-taking skills with 9 full-length practice tests--5 in the book, including a diagnostic test to target your studying, and 4 more online--plus detailed answer explanations for all questions Strengthen your knowledge with in-depth review, including hundreds of examples and worked out solutions, covering all Units on the AP Statistics Exam Reinforce your learning with 29 quizzes throughout the book that feature hundreds of multiple-choice and free-response practice questions Boost your confidence by reviewing key reminders and pitfalls to avoid on test day, advice on

selecting the appropriate inference procedure, guidance on calculator usage, and much more Online Practice Continue your practice with 4 full-length practice tests on Barron's Online Learning Hub Simulate the exam experience with a timed test option Deepen your understanding with detailed answer explanations and expert advice Gain confidence with scoring to check your learning progress Publisher's Note: Products purchased from 3rd party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entities included with the product.

2019 ap stats frq solutions: 5 Steps to a 5: AP Statistics 2022 Jared Derksen, DeAnna Krause McDonald, 2021-08-04 MATCHES THE LATEST EXAM! Let us supplement your AP classroom experience with this easy-to-follow study guide. The immensely popular 5 Steps to a 5: AP Statistics guide has been updated for the 2021-22 school year and now contains: 3 full-length practice exams (both in the book and online) that reflect the latest exam Access to a robust online platform Comprehensive overview of the AP Statistics exam format Hundreds of practice exercises with thorough answer explanations Review material and proven strategies specific to each section of the test A self-guided study plan including flashcards, games, and more online

2019 ap stats frq solutions: AP Statistics Research and Education Association, 1997-01-01 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 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 based on 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 this formula to calculate your raw score: $\text{Number Right} - (\text{Number Wrong} \times 1/4) = \text{Raw Score}$ (round to the nearest whole number) Note: Do not include unanswered questions in the formula.

SCORING THE FREE-RESPONSE QUESTIONS For the free-response section, use this formula to calculate your raw score: $5 \text{ Open-Ended Questions (75\%)} + 1 \text{ Investigative-Task Question (25\%)} = \text{Raw Score}$

THE COMPOSITE SCORE To obtain your composite score, use the following method: $\text{Multiple-Choice Raw Score} + \text{Free-Response Raw Score} = \text{Raw Score}$ AP grades are interpreted as follows: 5-extremely well qualified, 4-well qualified, 3-qualified, 2-possibly qualified, and 1-no recommendation.

SCORES THAT RECEIVE COLLEGE CREDIT AND/OR ADVANCED PLACEMENT Most colleges grant students who earn at least a 3 college credit and/or advanced placement. You should check with your school guidance office about specific college requirements.

STUDYING FOR YOUR AP EXAMINATION It is never too early to start studying. The earlier you begin, the more time you will have to sharpen your skills. Do not procrastinate! Cramming is not an effective way to study, since it does not allow you the time needed to learn the test material. It is very important for you to choose the time and place for studying that works best for you. Some students may set aside a certain number of hours every morning to study, while others may choose to study at night before going to sleep. Other students may study during the day, while waiting on a line, or even while eating lunch. Only you can determine when and where your study time will be most effective. But be consistent and use your time wisely. Work out a study routine and stick to it! When you take the practice exam(s), try to make your testing conditions as much like the actual test as possible. Turn your television and radio off, and sit down at a quiet table free from distraction. Make sure to time yourself. Complete the practice test(s), score your test(s) and thoroughly review the explanations for the questions you answered incorrectly. However, do not review too much during any one sitting. Concentrate on one problem area at a time by reviewing the question and explanation, and by studying our review(s) until you are confident that you completely understand the material. Since you will be allowed to write in your test booklet during the actual exam, you may want to write in the margins and spaces

of this book when practicing. However, do not make miscellaneous notes on your answer sheet. Mark your answers clearly and make sure the answer you have chosen corresponds to the question you are answering. Keep track of your scores! This will enable you to gauge your progress and discover general weaknesses in particular sections. You should carefully study the reviews that cover the topics causing you difficulty, as this will build your skills in those areas. To get the most out of your studying time, we recommend that you follow the Study Schedule. It details how you can best budget your time. TEST-TAKING TIPS Although you may be unfamiliar with tests such as the Advanced Placement exams, there are many ways to acquaint yourself with this type of examination and help alleviate your test-taking anxieties. Listed below are ways to help yourself become accustomed to the AP exam, some of which may also be applied to other standardized tests. Become comfortable with the format of the AP Examination in Statistics. When you are practicing to take the exam(s), simulate the conditions under which you will be taking the actual test(s). You should practice under the same time constraints as well. Stay calm and pace yourself. After simulating the test only a couple of times, you will boost your chances of doing well, and you will be able to sit down for the actual test much more confidently. Know the directions and format for each section of the exam. Familiarizing yourself with the directions and format of the different test sections will not only save you time, but will also ensure that you are familiar enough with the AP exam to avoid anxiety (and the mistakes caused by being anxious). Work on the easier questions first. If you find yourself working too long on one question, make a mark next to it in your test booklet and continue. After you have answered all of the questions that you can, go back to the ones you have skipped. Use the process of elimination when you are unsure of an answer. If you can eliminate three of the answer choices, you have given yourself a fifty-fifty chance of getting the item correct since there will only be two choices left from which to make a guess. If you cannot eliminate at least three of the answer choices, you may choose not to guess, as you will be penalized one-quarter of a point for every incorrect answer. Questions not answered will not be counted. Be sure that you are marking your answer in the oval that corresponds with the correct item in the test booklet. Since the multiple-choice section is graded by machine, marking the wrong answer will throw off your score.

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