

2019 AP® STATISTICS FREE-RESPONSE QUESTIONS

STATISTICS

SECTION II

Part A

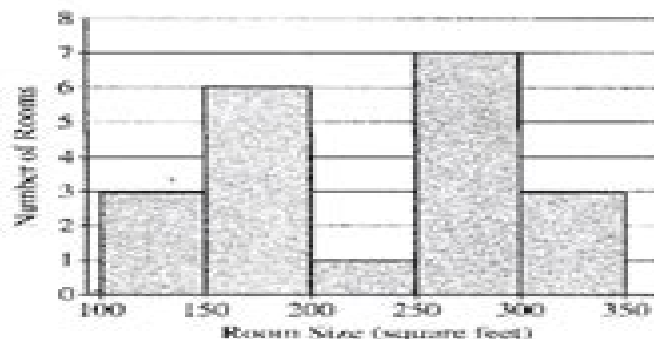
Questions 1-5

Spend about 1 hour and 5 minutes on this part of the exam.

Percent of Section II score—75

Directions: Show all your work. Indicate clearly the methods you use, because you will be scored on the correctness of your methods as well as on the accuracy and completeness of your results and explanations.

1. The sizes, in square feet, of the 20 rooms in a student residence hall at a certain university are summarized in the following histogram.



- (a) Based on the histogram, write a few sentences describing the distribution of room size in the residence hall.
 (b) Summary statistics for the sizes are given in the following table.

Mean	Standard Deviation	Min	Q1	Median	Q3	Max
231.4	68.12	134	174	253.5	292	315

① The spread is about $(350 - 100) = 250 \text{ ft}^2$.
 The distribution is roughly bimodal and approximately symmetric. The median is around 250. The min is around 100 and the max is around 350.

② $IQR = 292 - 134 = 118$
 No outliers

Upper bound = $Q_3 + 1.5 \times IQR = 292 + 1.5 \times 118 = 467$
 Lower bound = $Q_1 - 1.5 \times IQR = 134 - 1.5 \times 118 = -3$

Ap Statistics Test Answer Key

**Jerome A. McDuffie, Gary Wayne
Piggrem, Steven E. Woodworth**

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Reinforce your learning with numerous practice quizzes throughout the book Interactive 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 automated scoring to check your learning progress

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 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 tests 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

$$\text{Number Right} - \text{Number Wrong} \times \frac{1}{4}$$

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

Open Ended Questions	Investigative Task Question	Raw Score
5	1	75%
4	1	25%

Raw Score

THE COMPOSITE SCORE

To obtain your composite score use the following method

Multiple Choice Raw Score	Free Response Raw Score	Raw Score AP grades
5	5	extremely well qualified
4	4	well qualified
3	3	qualified
2	2	possibly qualified
1	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 exams 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 score your test 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 reviews 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 exams simulate the conditions under which you will be taking the actual tests 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

Princeton Review AP Statistics Premium Prep, 21st Edition The Princeton Review, 2025-08-05 PREMIUM PREP FOR A PERFECT 5 Ace the newly digital AP Statistics Exam with this comprehensive study guide including 5 full length practice tests with answer explanations timed online practice and thorough content reviews Techniques That Actually Work Tried and true strategies to help you avoid traps and beat the test Tips for pacing yourself and guessing logically Essential tactics to help you work smarter not harder Everything You Need for a High Score Updated to address the new digital exam Comprehensive content review for all test topics Engaging activities to help you critically assess your progress Online digital flashcards to review core content plus study plans and more via youronline Student Tools Premium Practice for AP Excellence 5 full length practice tests 2 in the book 3 online with detailed answer explanations Online tests provided as both digital versions with timer option to simulate exam experience online and as downloadable PDFs with interactive elements mimicking theexam interface Practice drills at the end of each content review chapter plus step by step walk throughs of sample exam questions *5 Steps to a 5 AP Statistics, 2008-2009 Edition* Duane C. Hinders, 2008-01-01 A PERFECT PLAN FOR THE PERFECT SCORE We want you to succeed on your AP exam That s why we ve created this 5 step plan to help you study more effectively use your preparation time wisely and get your best score This easy to follow guide offers you a complete review of your AP course strategies to give you the edge on test day and plenty of practice with AP style test questions You ll sharpen your subject knowledge strengthen your thinking skills and build your test taking confidence with Full length practice exams modeled on the real test All the terms and concepts you need to know to get your best score Your choice of three customized study schedules so you can pick the one that meets your needs The 5 Step Plan helps you get the most out of your study time Step 1 Set Up Your Study Program Step 2 Determine Your Readiness Step 3 Develop the Strategies Step 4 Review the Knowledge Step 5 Build Your Confidence The Best Test Preparation for the Advanced Placement Examination in United States History Jerome A. McDuffie, Gary Wayne Piggrem, Steven E. Woodworth, 1990-01-01

A NEWER EDITION OF THIS TITLE IS AVAILABLE SEE ISBN 978 0 7386 0625 5 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 includes a comprehensive review course of all the topics covered on the exam the Colonial Period the American Revolution the U S Constitution Westward expansion the Civil War Reconstruction Industrialism World War I the Great Depression World War II the Vietnam Era Watergate Carter and the New Conservatism 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 US history 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 ABOUT THE BOOK ABOUT THE TEST ABOUT THE REVIEW SECTION SCORING THE EXAM CONTACTING THE AP PROGRAM AP U S HISTORY STUDY SCHEDULE AP UNITED STATES HISTORY COURSE REVIEW 1 The Colonial Period 1500 1763 2 The American Revolution 1763 1787 3 The United States Constitution 1787 1789 4 The New Nation 1789 1824 5 Jacksonian Democracy and Westward Expansion 1824 1850 6 Sectional Conflict and the Causes of the Civil War 1850 1860 7 The Civil War and Reconstruction 1860 1877 8 Industrialism War and the Progressive Era 1877 1912 9 Wilson and World War I 1912 1920 10 The Roaring Twenties and Economic Collapse 1920 1929 11 The Great Depression and the New Deal 1929 1941 12 World War II and the Post War Era 1941 1960 13 The New Frontier Vietnam and Social Upheaval 1960 1972 14 Watergate Carter and the New Conservatism 1972 2001 AP UNITED STATES HISTORY PRACTICE TESTS Test 1 Answer Sheet Answer Key Detailed Explanations of Answers Test 2 Answer Sheet Answer Key Detailed Explanations of Answers Test 3 Answer Sheet Answer Key Detailed Explanations of Answers Test 4 Answer Sheet Answer Key Detailed Explanations of Answers Test 5 Answer Sheet Answer Key Detailed Explanations of Answers Test 6 Answer Sheet Answer Key Detailed Explanations of Answers AP US HISTORY EXCERPT ABOUT THE BOOK This book gives you all the tools you'll need to master the Advanced Placement Examination in United States History REA's concise review is the perfect companion to your textbook readings and classroom discussion And our six full length practice tests all based on the current format of the AP exam mirror the actual test taking experience We don't stop there however Following each exam you'll find an answer key complete with detailed explanations that tell you not just what's correct but why By studying our review section completing all six practice exams and carefully checking the answer explanations you'll be able to completely inventory your strengths and weaknesses Follow our study schedule see page x and when test day rolls around you'll have everything you need to be completely at ease with the material Teachers too will find this book an excellent resource for the Advanced Placement course in U S History In fact many AP instructors use it as a supplementary text because it so comprehensively supports and addresses specific curriculum objectives for the course and exam ABOUT THE TEST The

Advanced Placement Program is designed to allow high school students to pursue college level studies while attending high school. The three hour five minute AP U S History exam is usually given to high school students who have completed a year's study in a college level U S History course. The test results are then used to determine the awarding of course credit and/or advanced course placement in college. According to the College Board, students taking this exam are called upon to demonstrate systematic factual knowledge and bring to bear critical persuasive analysis of the full sweep of U S history. This is why we make every effort to establish and build upon context for you rather than encouraging rote memorization of disconnected facts.

The AP U S History Exam is divided into two sections:

1. Multiple Choice: This section is composed of 80 multiple choice questions designed to gauge your ability to understand and analyze U S history from the Colonial period to the present. The majority of the questions, however, are based on 19th and 20th century history. This section tests factual knowledge, scope of preparation, and knowledge-based analytical skills. You'll have 55 minutes to complete this section, which accounts for 50 percent of your final grade.
2. Free Response: This section is composed of three essay questions designed to measure your ability to write coherent, intelligent, well-organized essays on historical topics. The essays require you to demonstrate mastery of historical interpretation and the ability to express views and knowledge in writing. The essays may relate documents to different areas, analyze common themes of different time periods, or compare individual and group experiences which reflect socioeconomic, racial, gender, and ethnic differences.

Part A consists of a mandatory 15 minute reading period followed by 45 minutes during which you must answer a document-based question (DBQ) which changes from year to year. In Part B, the student chooses to answer on two of the topics that are given. You will have 70 minutes to write these essays. The free response section counts for 50 percent of your final grade. These topics are broken down into thirds:

- Political Institutions
- 1/3rd Social and Economic Change
- 1/3rd Behavior and Public Policy
- Diplomacy and International Relations
- Intellectual and Cultural Development
- 1/3rd

The time periods covered are as follows:

- Pre Colonial through 1789
- 1/6th of exam
- 1790-1914
- 1/2 of exam
- 1915-present
- 1/3rd of exam

ABOUT THE REVIEW SECTION

This book begins with REA's concise yet thorough 230 page review of U S history designed to acquaint you with the exam's scope of coverage. Our review covers these topics and historical time periods:

- The Colonial Period 1500-1763
- The American Revolution 1763-1787
- The United States Constitution 1787-1789
- The New National 1789-1824
- Jacksonian Democracy and Westward Expansion 1824-1850
- Sectional Conflict and The Causes of the Civil War 1850-1860
- The Civil War and Reconstruction 1860-1877
- Industrialism
- War and the Progressive Era 1877-1912
- Wilson and World War I 1912-1920
- The Roaring Twenties and Economic Collapse 1920-1929
- The Great Depression and the New Deal 1929-1941
- World War II and the Post War Era 1941-1960
- The New Frontier
- Vietnam and Social Upheaval 1960-1972
- Watergate
- Carter and the New Conservatism 1972-2001

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. You will neither receive a credit nor suffer a deduction for

unanswered questions The free response essays are graded by instructors and professors from across the country who come together each June for a week of non stop AP essay grading Each essay booklet is read and scored by several graders Each grader provides a score for the individual essays The DBQ is scored on a scale from 0 to 15 0 being the lowest and 15 the highest Each topic based essay receives a score from 0 to 9 These scores are concealed so that each grader is unaware of the previous graders assessments When the essays have been graded completely the scores are averaged one score for each essay so that the free response section generates three scores The total weight of the free response section is 50 percent of the total score Your work in the multiple choice section counts for the other 50 percent Each year grades fluctuate slightly because the grading scale is adjusted to take into account the performance of the total AP U S History test taker population When used with the corresponding chart the scoring method we present here will strongly approximate the score you would receive if you were sitting for the actual AP U S History exam

SCORING THE MULTIPLE CHOICE SECTION For the multiple choice section use this formula to calculate your raw score Number right number wrong $\times 1.4$ raw score round to the nearest whole number

SCORING THE FREE RESPONSE SECTION For the free response section use this formula to calculate your raw score DBQ Essay 1 Essay 2 raw score round to the nearest whole number You may want to give your essays three different grades such as a 13 10 and an 8 and then calculate your score three ways as if you did

The Best Test

Preparation for the Advanced Placement Examinations for Both Microeconomics & Macroeconomics Richard Sattora, 2003-10-31 A NEWER EDITION OF THIS TITLE IS AVAILABLE SEE ISBN 978 0 7386 0789 4 REA Real review Real practice Real results Get the college credits you deserve AP MICROECONOMICS AND MACROECONOMICS Completely aligned with today's AP exam Are you prepared to excel on the AP exam Set up a study schedule by following our results driven timeline Take the first practice test to discover what you know and what you should know Use REA's advice to ready yourself for proper study and success Practice for real Create the closest experience to test day conditions with 2 full length practice tests Chart your progress with full and detailed explanations of all answers Boost your confidence with test taking strategies and experienced advice Sharpen your knowledge and skills The book's full subject review features coverage of all subjects including essential terms economic relationships and key economic terms and theories as well as all exam topics price elasticity income constraints consumer price index aggregate demand supply and more Smart and friendly lessons reinforce necessary skills Key tutorials enhance specific abilities needed on the test Targeted drills increase comprehension and help organize study Ideal for Classroom Family or Solo Test Preparation REA has provided advanced preparation for generations of advanced students who have excelled on important tests and in life REA's AP study guides are teacher recommended and written by experts who have mastered the course and the test

Systematic Assessment of Learning Outcomes Mary McDonald, 2002 This book is designed to be the comprehensive reference which focuses on the development of the most commonly used type of classroom assessment the multiple choice exam

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