

2019 AP® STATISTICS FREE-RESPONSE QUESTIONS

STATISTICS

SECTION II

Part A

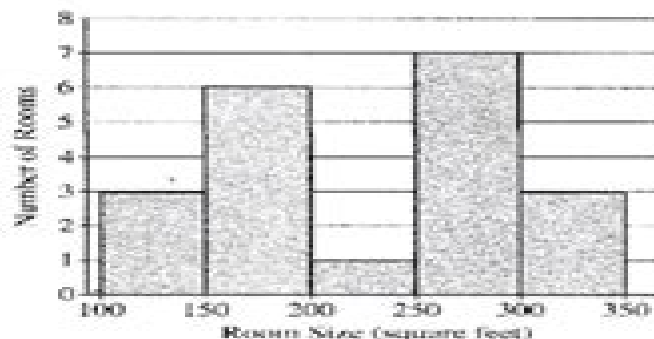
Questions 1-5

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 = $Q_1 - 1.5 \times IQR = 134 - 1.5 \times 118 = -3$

Answer Keys Ap Stats

Phillip I. Good



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AP Statistics Martin Sternstein, 2020-08-04 Be prepared for exam day with Barron's Trusted content from AP experts Barron's AP Statistics 2021 2022 includes in depth content review and 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 6 full length practice tests including a diagnostic test to target your studying Strengthen your knowledge with in depth review covering all Units on the AP Statistics Exam Reinforce your learning with numerous practice quizzes throughout the book

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Cracking the AP Statistics Exam Madhuri S. Mulekar, Princeton Review, 2004 The fiercer the competition to get into college the more schools require that students prove themselves in other ways than SAT scores and grade point averages The more expensive college educations become the more students take advantage of the opportunity to test out off first year college courses Includes 2 sample tests with full explanations for all answers The Princeton Review's proven score raising skills and techniques Complete subject review of all the material likely to show up on the AP Statistics exam

AP Statistics Premium, 2024: 9 Practice Tests + Comprehensive Review + Online Practice Martin Sternstein, 2023-07-04 9 full length practice tests with detailed answer explanations online practice with a timed test option and scoring comprehensive review and practice for all topics on the exam expert tips plus Barron's Essential 5 things you need to know Cover

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
$$\text{Number Right} - \frac{1}{4} \text{Number Wrong} \times 1.4$$
 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
$$5 \text{ Open Ended Questions } 75\% + 1 \text{ Investigative Task Question } 25\% = \text{Raw Score}$$
 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 *AP Statistics Premium, 2025: Prep Book with 9 Practice Tests + Comprehensive Review + Online Practice* Barron's Educational Series, 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 **Business Mathematics And Statistics Class 12**

Revised 17th Edition for the Session of 2024-25 Dr. S. K. Singh, Dr. Awadesh Kumar Singh, Sudha Singh, 2024-03-15
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Statistics David C. LeBlanc, 2004 Designed for students majoring in the life health and natural sciences Statistics

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Business Mathematics And Statistics Class 12 Revised 18th Edition for the Session of 2025-26 Dr. S. K. Singh, Dr. Awadesh Kumar Singh, Sudha Singh, 2025-10-21 BUSINESS MATHEMATICS 1 Arithmetic Progression A P 2 Geometric Progression G P 3 Harmonic Progression H P 4 Properties of A P G P and H P 5 Permutation and Combination 6 Determinants 7 Matrices 8 Set Theor 9 Differentiation 10 Integration STATISTICS 1 Measures of Central Tendency Arithmetic Mean 2 Median 3 Mode 4 Geometric Mean 5 Harmonic Mean 6 Analysis of Time Series 7 Theory of Probability 8 Interpolation and Extrapolation Log and Antilog Tables Latest Model Paper Board Examination Paper *Cracking the AP Statistics Exam, 2015 Edition* Princeton Review, 2014-10-21 EVERYTHING YOU NEED TO SCORE A PERFECT 5 Equip yourself to ace the AP Statistics Exam with The Princeton Review's comprehensive study guide including thorough content reviews targeted strategies for every question type and 2 full length practice tests with complete answer explanations This eBook edition has been optimized for on screen viewing with cross linked questions answers and explanations We don't have to tell you how tough AP Statistics or how important a stellar score on the AP exam can be to your chances of getting into a top college of your choice Written by Princeton Review experts who know their way around stats Cracking the AP Statistics Exam will give you Techniques That Actually Work Tried and true strategies to 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 to Know for a High Score Comprehensive content review for all test topics Up to date information on the 2015 AP Statistics Exam Engaging activities to help you critically assess your progress Practice Your Way to Perfection 2 full length practice tests with detailed answer explanations Practice drills at the end of every content review chapter Step by step walk throughs for how to set up box plots dot plots and other statistics graphs

Federal Government Paperwork, Hearings Before the Subcommittee on Census and Statistics.... United States. Congress. House. Post Office and Civil Service, 1966 5 Steps to a 5: AP Statistics 2019 Duane C. Hinders, Corey Andreasen, DeAnna Krause McDonald, 2018-08-06 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 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 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

ExamStep 3 Develop the strategies that will give you the edge on test dayStep 4 Review the terms and concepts you need to achieve your highest scoreStep 5 Build your confidence with full length practice exams **Resources in Education** ,1989

Introduction to Statistics Through Resampling Methods and Microsoft Office Excel Phillip I. Good,2005-07-08 Learn statistical methods quickly and easily with the discovery method With its emphasis on the discovery method this publication encourages readers to discover solutions on their own rather than simply copy answers or apply a formula by rote Readers quickly master and learn to apply statistical methods such as bootstrap decision trees t test and permutations to better characterize report test and classify their research findings In addition to traditional methods specialized methods are covered allowing readers to select and apply the most effective method for their research including Tests and estimation procedures for one two and multiple samples Model building Multivariate analysis Complex experimental design Throughout the text Microsoft Office Excel r is used to illustrate new concepts and assist readers in completing exercises An Excel Primer is included as an Appendix for readers who need to learn or brush up on their Excel skills Written in an informal highly accessible style this text is an excellent guide to descriptive statistics estimation testing hypotheses and model building All the pedagogical tools needed to facilitate quick learning are provided More than 100 exercises scattered throughout the text stimulate readers thinking and actively engage them in applying their newfound skills Companion FTP site provides access to all data sets discussed in the text An Instructor s Manual is available upon request from the publisher Dozens of thought provoking questions in the final chapter assist readers in applying statistics to solve real life problems Helpful appendices include an index to Excel and Excel add in functions This text serves as an excellent introduction to statistics for students in all disciplines The accessible style and focus on real life problem solving are perfectly suited to both students and practitioners Introduction to Statistics Through Resampling Methods and R Phillip I. Good,2013-02-11 A highly accessible alternative approach to basic statistics Praise for the First Edition Certainly one of the most impressive little paperback 200 page introductory statistics books that I will ever see it would make a good nightstand book for every statistician Technometrics Written in a highly accessible style Introduction to Statistics through Resampling Methods and R Second Edition guides students in the understanding of descriptive statistics estimation hypothesis testing and model building The book emphasizes the discovery method enabling readers to ascertain solutions on their own rather than simply copy answers or apply a formula by rote The Second Edition utilizes the R programming language to simplify tedious computations illustrate new concepts and assist readers in completing exercises The text facilitates quick learning through the use of More than 250 exercises with selected hints scattered throughout to stimulate readers thinking and to actively engage them in applying their newfound skills An increased focus on why a method is introduced Multiple explanations of basic concepts Real life applications in a variety of disciplines Dozens of thought provoking problem solving questions in the final chapter to assist readers in applying statistics to real life applications Introduction to Statistics through Resampling Methods and R

Second Edition is an excellent resource for students and practitioners in the fields of agriculture astrophysics bacteriology biology botany business climatology clinical trials economics education epidemiology genetics geology growth processes hospital administration law manufacturing marketing medicine mycology physics political science psychology social welfare sports and toxicology who want to master and learn to apply statistical methods **Vital and Health Statistics**, 1967 **5**

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