

2019 AP® STATISTICS FREE-RESPONSE QUESTIONS

STATISTICS

SECTION II

Part A

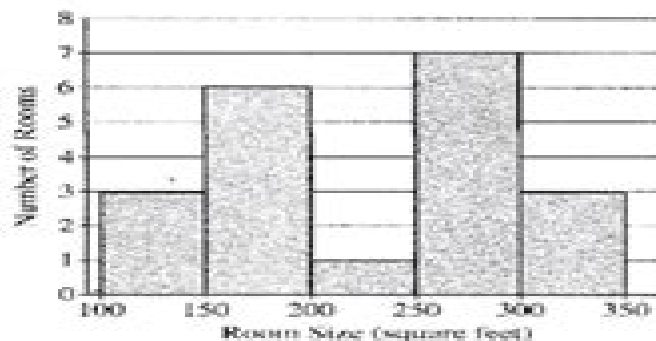
Questions 1-5

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

**Duane C. Hinders, Corey
Andreasen, DeAnna Krause McDonald**

Answer Keys Ap Stats:

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**

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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 is 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

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 Step 2 Determine your readiness with an AP style Diagnostic Exam
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 Step 4 Review the terms and concepts you need to achieve your highest score
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Resources in Education, 1989

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