

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

(a) 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.
 (b) $IQR = 292 - 134 = 118$
 No outliers

$$\begin{aligned} \text{Upper bound} &= Q_3 + 1.5 \times IQR \\ &= 292 + 1.5 \times 118 = 467 \\ \text{Lower bound} &= Q_1 - 1.5 \times IQR \\ &= 134 - 1.5 \times 118 = -3 \end{aligned}$$

Answer Keys Ap Stats

**Dr. S. K. Singh, ,Dr. Awadesh Kumar
Singh,Sudha Singh**

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$$\text{Number Right} - \frac{1}{4} \text{Number Wrong}$$
 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
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 THE COMPOSITE SCORE To obtain your composite score use the following method
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 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 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 Theory 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 Barron's AP Statistics Martin Sternstein, 2017-02-28 This manual's in depth preparation for the AP Statistics exam features the 35 absolutely best AP Statistics exam hints found anywhere and includes A diagnostic test and five full length and up to date practice exams All test questions answered and explained Additional multiple choice and free response questions with answers A 14 chapter subject review covering all test topics A new review chapter highlighting statistical insights into social issues a new chapter on the Investigative Task which counts as one eighth of the exam A guide to basic uses of TI Casio and HP graphing calculators ONLINE PRACTICE TEST Students who purchase this book will also get access to one additional full length online AP Statistics test with all questions answered and explained **Statistics** David C. LeBlanc, 2004 Designed for students majoring in the life health and natural sciences Statistics Concepts and

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