

# Hawkes Learning System Beginning Statistics Answer Key

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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 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 number right 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 open ended questions 75 1 investigative task question 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 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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