

Use the following information for questions 1-2:

In an AP Stats class, 57% of students eat breakfast in the morning and 80% of students floss their teeth. Forty-six percent of students eat breakfast and also floss their teeth.

- ___ 1. What is the probability that a student from this class eats breakfast but does not floss their teeth?
A) 9% B) 11% C) 34% D) 57% E) 93%
- ___ 2. What is the probability that a student from this class eats breakfast or flosses their teeth?
A) 9% B) 11% C) 34% D) 57% E) 93%
- ___ 3. Five juniors and four seniors have applied for two open student council positions. School administrators have decided to pick the two new members randomly. What is the probability they are both juniors or both seniors?
A) 0.395 B) 0.444 C) 0.506 D) 0.569 E) 0.722
- ___ 4. A fair coin has come up "heads" 10 times in a row. The probability that the coin will come up heads on the next flip is
A) less than 50%, since "tails" is due to come up.
B) 50%.
C) greater than 50%, since it appears that we are in a streak of "heads."
D) It cannot be determined.
- ___ 5. According to the National Telecommunication and Information Administration, 36.5% of U.S. households owned a computer in 2001. What is the probability that of three randomly selected U.S. households at least one owned a computer in 2001?
A) 18.0% B) 43.5% C) 58.5% D) 82.0% E) 91.8%
- ___ 6. According to the National Telecommunication and Information Administration, 50.5% of U.S. households had Internet access in 2001. What is the probability that first randomly selected U.S. households all had Internet access in 2001?
A) 6.5% B) 12.6% C) 49.5% D) 50.5% E) 93.4%
- ___ 7. Which of these has a Binomial model?
A) the number of people we survey until we find someone who has taken Statistics
B) the number of people we survey until we find two people who have taken Statistics
C) the number of people in a class of 25 who have taken Statistics
D) the number of aces in a five-card Poker hand
E) the number of sodas students drink per day
- ___ 8. Which of these has a Geometric model?
A) the number of people we survey until we find someone who has taken Statistics
B) the number of people we survey until we find two people who have taken Statistics
C) the number of people in a class of 25 who have taken Statistics
D) the number of aces in a five-card Poker hand
E) the number of sodas students drink per day
- ___ 9. BatCo, a company that sells batteries, claims that 98.5% of their batteries are in working order. How many would you expect to try, on average, to find one that does not work?
A) 5 B) 100 C) 200 D) 595 E) 2000

Ap Statistics Test B Probability Part Iv Answer Key

Research and Education Association

A red circular graphic with a gradient, appearing as a partial circle or a thick curved line, located to the right of the 'Research and Education Association' text.

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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
$$\text{Number Right} - \text{Number Wrong} \times 1.4$$

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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