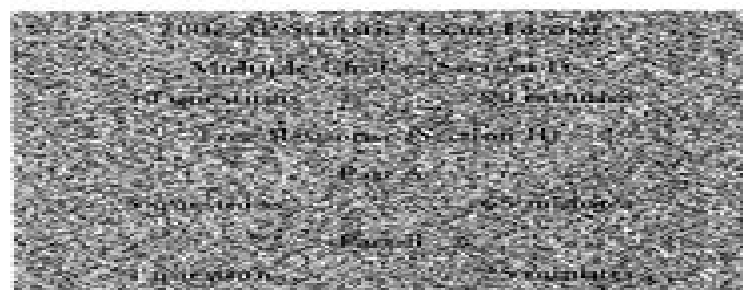


Chapter II The 2002 AP Statistics Examination

- Exam Content and Format
- Giving a Practice Exam
- Instructions for Administering the Exam
- Blank Answer Sheet
- The Exam

Exam Content and Format

The 2002 AP Statistics Exam contained questions from all four major content areas — Exploring Data, Planning a Study, Probability, and Statistical Inference — in both the 40-question multiple-choice section and the 6-question free-response section. Each part contributed 50 percent to the total exam score.



2002 AP Statistics Exam Format	
Multiple-Choice Section (I)	
40 questions	50 minutes
Free-Response Section (II)	
Part A	
3 questions	6 minutes
Part B	
3 questions	30 minutes

The six free-response questions covered the content areas of data exploration, sampling and experimental design, probability, statistical inference, and fitting models to data. The first five were short-answer questions; the sixth was a longer investigative task worth 25 percent of the maximum possible score for the free-response section.

Question 1: The purpose of question 1 was to assess the student's ability to interpret a graphical display and to reason using interval estimates. To receive full credit for this question, the student needed to comment on the increasing precision of the estimates over time and

to use the intervals in the graphical display to discuss the degree of support provided for each of the two competing theories. Good communication was particularly important on this question.

Question 2: The purpose of question 2 was to assess understanding of some basic principles of experimental design, including pairing/blocking, randomization, and blinding. A response describing a matched-pairs design with appropriate randomization and a correct discussion of double blinding received full credit for this question.

Question 3: The purpose of question 3 was to evaluate the student's ability to compute probabilities based on the normal distribution and to evaluate the student's knowledge of properties of the distribution of a sum of independent random variables. To receive full credit for this question, the student was required to compute and interpret a probability, correctly determine the mean and standard deviation of a sum of independent random variables, and then use the computed mean and standard deviation to correctly compute a second probability.

Question 4: The purpose of question 4 was to determine if the student could read standard statistics computer output and to assess understanding of correlation and influential points in a regression analysis. To receive full credit for this question, the response had to include the correct equation for the least squares regression line, a correct interpretation of the correlation coefficient, and a discussion of whether it was reasonable to use the given line over a restricted range of airplane sizes.

Question 5: The purpose of question 5 was to evaluate whether the student could carry out a test of hypotheses and state conclusions in context. To receive full credit for this question, the student needed to identify two distinct pairs of hypotheses in part (a) and then in part (b) to identify an appropriate test procedure, check (not just state) any necessary conditions for the test, and then, based on the result of the test, give an appropriate conclusion in context.

2002 Ap Statistics Multiple Choice Exam Answers

David Kaplan



2002 Ap Statistics Multiple Choice Exam Answers:

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