

2015 AP[®] STATISTICS FREE-RESPONSE QUESTIONS

STATISTICS

SECTION II

Part A

Questions 1-5

Spend about 65 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. Two large corporations, A and B, hire many new college graduates as accountants at entry-level positions. In 2009 the starting salary for an entry-level accountant position was \$36,000 a year at both corporations. At each corporation, data were collected from 30 employees who were hired in 2009 as entry-level accountants and were still employed at the corporation five years later. The yearly salaries of the 60 employees in 2014 are summarized in the boxplots below.



- (a) Write a few sentences comparing the distributions of the yearly salaries at the two corporations.
- (b) Suppose both corporations offered you a job for \$36,000 a year as an entry-level accountant.
- (i) Based on the boxplots, give one reason why you might choose to accept the job at corporation A.
 - (ii) Based on the boxplots, give one reason why you might choose to accept the job at corporation B.