

# 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 |

- Ⓐ 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.
- Ⓑ  $IQR = 292 - 134 = 118$   
 No outliers
- Upper bound =  $Q_3 + 1.5 \times IQR = 292 + 1.5 \times 118 = 467$   
 Lower bound =  $Q_1 - 1.5 \times IQR = 134 - 1.5 \times 118 = -3$

# Sample Answer Document Ap Statistics

**M Lipman**



## **Sample Answer Document Ap Statistics:**

The book delves into Sample Answer Document Ap Statistics. Sample Answer Document Ap Statistics is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Sample Answer Document Ap Statistics, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Sample Answer Document Ap Statistics
    - Chapter 2: Essential Elements of Sample Answer Document Ap Statistics
    - Chapter 3: Sample Answer Document Ap Statistics in Everyday Life
    - Chapter 4: Sample Answer Document Ap Statistics in Specific Contexts
    - Chapter 5: Conclusion
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  4. In chapter 3, this book will examine the practical applications of Sample Answer Document Ap Statistics in daily life. The third chapter will showcase real-world examples of how Sample Answer Document Ap Statistics can be effectively utilized in everyday scenarios.
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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Sample Answer Document Ap Statistics.

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