

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 |

① 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.

② IQR =  $292 - 134 = 118$

Upper bound =  $Q_3 + 1.5 \times \text{IQR} = 292 + 1.5 \times 118 = 467$   
 Lower bound =  $Q_1 - 1.5 \times \text{IQR} = 134 - 1.5 \times 118 = -3$

No outliers

# Ap Statistics Test 1b Answer Key

**L Manion**



**Ap Statistics Test 1b Answer Key:**

The book delves into Ap Statistics Test 1b Answer Key. Ap Statistics Test 1b Answer Key is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Ap Statistics Test 1b Answer Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Ap Statistics Test 1b Answer Key
  - Chapter 2: Essential Elements of Ap Statistics Test 1b Answer Key
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  - Chapter 4: Ap Statistics Test 1b Answer Key in Specific Contexts
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2. In chapter 1, this book will provide an overview of Ap Statistics Test 1b Answer Key. This chapter will explore what Ap Statistics Test 1b Answer Key is, why Ap Statistics Test 1b Answer Key is vital, and how to effectively learn about Ap Statistics Test 1b Answer Key.
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6. In chapter 5, this book will draw a conclusion about Ap Statistics Test 1b Answer Key. This chapter will summarize the key points that have been discussed throughout the book.

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 Ap Statistics Test 1b Answer Key.

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