

**2019 AP® STATISTICS FREE-RESPONSE QUESTIONS**

**STATISTICS**

**SECTION II**

**Part A**

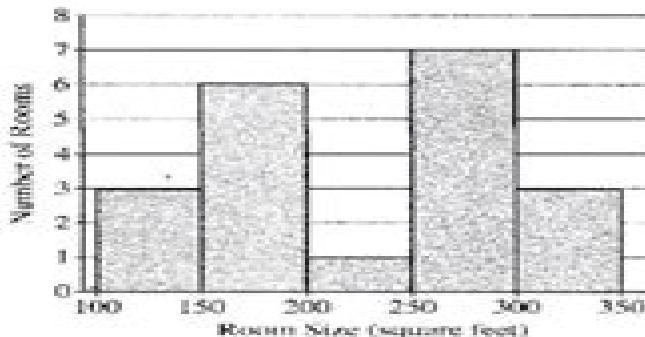
**Questions 1-5**

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

(a) The spread is about  $(350 - 100) = 250 \text{ ft}^2$   
 The distribution is roughly bimodal and approximately symmetric. The median is around 250. The two x-axes are around 100 and the rest is around 350.

(b)  $IQR = 292 - 134 = 118$

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

No outliers

# 2013 Ap Stats Short Answer Questions

**Xiang Xie**

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