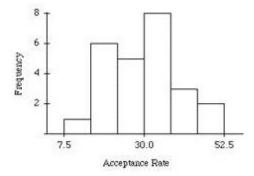
1. From March 1981 to February 1983 the number of burglaries committed each month in a Georgia town was recorded. They are given in the chart below. Between months 12 and 13 a law was enacted requiring citizens to own a gun. Town officials felt this law might decrease the number of burglaries, by acting to deter criminals.

Month	Burglaries	Month	Burglaries
1	4	13	0
2	7	14	6
3	10	15	1
4	6	16	4
5	5	17	4
6	1	18	6
7	4	19	2
8	1	20	3
9	0	21	0
10	1	22	2
11	6	23	5
12	2	24	1

The mean number of burglaries for months 13 to 24, i.e., those months after the law was enacted, is

- O A. 2.83.
- O B. 3.38.
- O C. 2.50.

2. The following histogram represents the distribution of acceptance rates (percent accepted) among twenty-five business schools in 1998. In each class interval, the left endpoint is included but not the right.



Which statement is true?

- A. The median rate must be less than 30.
- O B. The first quartile must be at least 15 but no larger than 22.5.
- O. C. Neither of the above.
- 3. You receive a fax with six bids (in millions of dollars): 2.2, 1.3, 1.9, 1.2, 2.4, and x, where x, is some number that is too blurry to read. Without knowing what x is, the median
- A. is 1.9.
- B. must be between 1.3 and 2.2.
- O C. could be any number between 1.2 and 2.4.

4. A sample was taken of the salaries of four employees from a large company. The following are their salaries (ir
thousands of dollars) for this year.
33 31 24 36
The variance of their salaries is
O A. 5.1.
O B. 26.
O C. 31.

5. For a physics course containing eleven students, the maximum point total for the quarter was 200. The point totals for the eleven students are given in the stemplot below.

***	
14	2 6
15	
16	
17	9
Which of the following st	atements is true about the stemplot?

O A. Because there are seven stems, the median must be contained in the fourth smallest stem and be between

- 140 and 150.
   B. We can compute the mean number of points for the eleven students from the information in the stemplot.
- B. We can compute the mean number of points for the eleven students from the information in the stemplot.
   C. Because of the small sample size, it would be impossible to split the stems in this stemplot.
- 6. Which of the following measures are not affected by outliers?
- O A. The mean
- B. The standard deviation

C. The IOR

- 7. Does the value of the standard deviation depend on the value of the mean?
- A. Yes. If the mean gets larger the standard deviation will also get larger.
- O B. Yes. You need to know the mean to be able to calculate the standard deviation.
- C. No. The center of a distribution and the spread are not related.

8. A teacher gave a 25 question multiple choice test. After scoring the tests, she computed a mean and standard deviation of the scores. The standard deviation was O. Based on this information  O A. All the students had the same score.		
O B. She must have made a mistake.		
C. About half the scores were above the mean.		
9. The 5-number summary of scores on a test is 35 60 65 70 90		
Based on this information		
O A. There are no outliers.		
O B. There are low outliers.		
O C. There are both high and low outliers.		
10. Total SAT scores for ten randomly selected students are: 1020 1260 1100 1260 1100 1020 960 1000 990 1160		
The mean of these scores is  A. 1087		
		O B. 1060
O C. 1100		