

AP Statistics: One-Variable Data Analysis

Multiple-Choice Practice Questions

1. The following list is ordered from smallest to largest: 25, 26, 26, 30, y , y , y , 33, 150. Which of the following statements is (are) true?
 - I. The mean is greater than the median
 - II. The mode is 26
 - III. There are no outliers in the data
 - a. I only
 - b. I and II only
 - c. III only
 - d. I and III only
 - e. II and III only
2. Megan wonders how the size of her beagle Herbie compares with other beagles. Herbie is 40.6 cm tall. Megan learned on the internet that beagles' heights are approximately normally distributed with a mean of 38.5 cm and a standard deviation of 1.25 cm. What is the percentile rank of Herbie's height?
 - a. 59
 - b. 65
 - c. 74
 - d. 92
 - e. 95
3. The mean and standard deviation of a normally distributed dataset are 19 and 4, respectively. 19 is subtracted from every term in the dataset and then the result is divided by 4. Which of the following best describes the resulting distribution?
 - a. It has a mean of 0 and a standard deviation of 1.
 - b. It has a mean of 0, a standard deviation of 4, and its shape is normal.
 - c. It has a mean of 1 and a standard deviation of 0.
 - d. It has a mean of 0, a standard deviation of 1, and its shape is normal.
 - e. It has a mean of 0, a standard deviation of 4, and its shape is unknown.
4. The five-number summary for a one-variable dataset is {5, 18, 20, 40, 75}. If you wanted to construct a box-and-whiskers plot for the dataset, what would be the maximum possible length of the right side "whisker"?
 - a. 35
 - b. 33
 - c. 5
 - d. 55

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R Barnett



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