

QUICK REVIEW: CLAST SKILL II.D.1

Recognize properties and interrelationships among the mean, median, and mode

Some Guidelines:

* If the distribution is symmetric with respect to the mode, then the mean, median and mode are all the same.

* If the distribution is skewed to the left (it has a tail to the left), then “mean < mode” and “median \leq mode.”

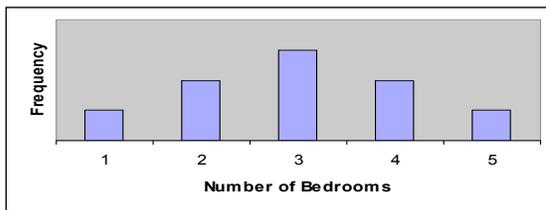
* If the distribution is skewed to the right (it has a tail to the right), then “mean > mode” and “median \geq mode.”

1. The graph below shows the distribution of the different sizes in memory sticks, carried by a class of students in a college.



Which of the following statement is true about the distribution?

- a) The mean is greater than the median.
 - b) The mode is the same as the mean.
 - c) The median is greater than the mode.
 - d) The mean is less than the mode.
2. The graph below shows the distribution of the number of bedrooms in an apartment complex at Orlando.



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- a) The mean is greater than the median.
 - b) The mode is the same as the mean.
 - c) The median is greater than the mode.
 - d) The mean is less than the mode.
3. An instructor asked the student about how many hours a week they spent on their homework. Nearly half of them said they spent about five hours a week and almost a quarter of them said they spent about three hours a week; most of the other said they spent about two hours a week and two students said they spent about an hour a week.

Which of the following statement is true about the distribution?

- a) The mean is less than the median.
- b) The mode is the same as the median.
- c) The median is greater than the mode.
- d) The mean is less than the mode.