Moore SCC 8e

Chapter 12 Practice Quiz

- 1. The two sets of values commonly used to describe center AND spread are:
- a. Five-number summary AND median
- b. Mean and standard deviation AND median and mode
- c. Mean and standard deviation AND five-number summary
- d. Mean and median AND mode
- 2. The five-number summary consists of which of the following?
- I. Mean II. Median III. Mode IV: Minimum value
- V: Maximum value VI: 1st quartile VII: 3rd quartile
- VIII: Standard deviation IX: Range
- a. I, II, III, IV, V
- b. I, III, VIII, IX
- c. II, IV, V, VI, VII
- d. I, IV, V, VI, VIII
- e. I, IV, V, VIII, IX
- 3. A graph of the five-number summary of a data set is a:
- a. Histogram
- b. Stem and leaf
- c. Dot plot
- d. Boxplot

4. Standard deviation is:
a. The average distance of observations from the mean
b. The average distance of observations from the median
c. The square of distances of each observation from the mean
d. The sum of the observations divided by the number of observations
e. None of the choices are correct.
5. A survey was given to a group of 12 seniors in high school about how much money they spent last weekend. The results are below:
\$45 \$30 \$15 \$105 \$35 \$50 \$15 \$40 \$45 \$75 \$60 \$50
The median of the data set is:
a. \$32.50
b. \$45
c. \$50
d. \$47.50
e. None of the choices are correct.
6. A survey was given to a group of 12 seniors in high school about how much money they spent last weekend. The results are below:
\$45 \$30 \$15 \$105 \$35 \$50 \$15 \$40 \$45 \$75 \$60 \$50
The 1st quartile of the data set is
a. \$67.50
b. \$15

- c. \$35
- d. \$32.50
- 7. A survey was given to a group of 12 seniors in high school about how much money they spent last weekend. The results are below:

\$45 \$30 \$15 \$105 \$35 \$50 \$15 \$40 \$45 \$75 \$60 \$50

The mean of the data set is:

$$\bar{x} = \frac{565}{11} \approx 51.4$$

$$\bar{x} = \frac{565}{12} \approx 47.1$$

- b.
- c. \bar{x} is the middle number which is 45.
- d. None of the choices are correct.
- 8. A survey was given to a group of 12 seniors in high school about how much money they spent last weekend. The results are below:

\$45 \$30 \$15 \$105 \$35 \$50 \$15 \$40 \$45 \$75 \$60 \$50

The standard deviation of this data set

- $a. \approx 25
- $b. \approx 23.9
- $c. \approx 47.1
- d. None of the choices are correct.

9. When a standard deviation of a data set is 0, then:
a. All observations have the same value
b. There is no spread at all
c. The mean is 0
d. All observations have the same value and there is no spread at all.
e. None of the choices are correct.
10. The measure of central tendency that is most influenced by extreme observations is:
a. Mean
b. Median
c. Mode
d. Standard deviation