Online Exam 3_03

Time Remaining: 22:59:44

Hide/Show Time Remaining

Part 1 of 1 -

Question 1 of 20 5.0 Points

A quality control officer samples the number of adjustments on 10 machines over the course of a week in order to estimate the total number of adjustments on all machines in a factory. This is an example of a(n):

- A. population mean.
- B. sample mean.
- C. arithmetic mean.
- D. weighted mean.

Reset Selection

Mark for Review What's This?

Question 2 of 20 5.0 Points

A clerk records the number of daily responses to a mail survey in one week. The response totals were 7, 17, 22, 12, 23, 20, more than 25. What is the arithmetic mean of the data set?

- A. 14.43
- B. 16.83
- C. 18
- D. Not calculable with the given data set.

Reset Selection

Mark for Review What's This?

Question 3 of 20 5.0 Points

What is the mean weight of a sample of largemouth bass caught in a lake with weights of 2 lbs., 2 lbs., 3 lbs., 6 lbs., 8 lbs, and 8 lbs.?

- A. 3.17 lbs.
- B. 4.75 lbs.
- C. 4.83 lbs.
- D. Not calculable with the given data set

Reset Selection

Mark for Review What's This?

Question 4 of 20 5.0 Points

The arithmetic mean:

- A. is a unique number for any data set.
- B. is always the most representative measure of central tendency for any given data set.
- C. is the only measure of location where the sum of the deviations of each value from the mean will always be zero.
- D. Both A and C

Reset Selection

Mark for Review What's This?

Question 5 of 20 5.0 Points

Merchandise inventory purchases for a firm for a three-month period are: January: 2,000 units @ $12 per unit; February: 1,800 @ $14 per unit; March 2,600 units @ 15 per unit. What is the mean unit cost of merchandise inventory?

- A. $12.82
- B. $13.33
- C. $13.78
- D. $14.00

Reset Selection

Mark for Review What's This?

Question 6 of 20 5.0 Points

One advantage of the median as a measure of central tendency is:

- A. the possibility of more than one median existing for a given data set.
- B. its usefulness for comparing two or more data sets.
- C. its usefulness for describing nominal data sets.
- D. that it is not affected by extreme values in the data set.

Reset Selection

Mark for Review What's This?

Question 7 of 20 5.0 Points

The median:

- A. usually appears twice in a data set.
- B. cannot be computed from a frequency distribution.
- C. can be computed for all levels of data.
- D. is the midpoint of values in a distribution that is ordered from the smallest to the largest.

Reset Selection

Mark for Review What's This?

Question 8 of 20 5.0 Points

From the data set 14, 16, 17, 18, 20, what is the mode?

A. 16.5

B. 17

C. 5

D. There is no mode for this data set.

Reset Selection

Mark for Review What's This?

Question 9 of 20 5.0 Points

To measure the average percentage population increase in a state over a census period, a statistician should use the:

A. geometric mean.

B. arithmetic mean.

C. harmonic mean.

D. median.

Reset Selection

Mark for Review What's This?

Question 10 of 20 5.0 Points

What is the geometric mean of the following sequence? 8, 8, 12, 14, 22, 16, 20

A. 13.35

B. 14

C. 14.5

D. 16

Reset Selection

Mark for Review What's This?

Question 11 of 20 5.0 Points

Please answer questions 11-13 using the following data.

Sales	**Number of Retailers**
100 up to 120	5
120 up to 140	7
140 up to 160	9

160 up to 180	16
180 up to 200	10
200 up to 220	3

What is the mean sales level?

- A. 160
- B. 160.7
- C. 161.20
- D. 170

Reset Selection

Mark for Review What's This?

Question 12 of 20 5.0 Points

Based on the information in the chart in #11 (above), what is the median sales level?

- A. 155
- B. 165
- C. 168
- D. 170

Reset Selection

Mark for Review What's This?

Question 13 of 20 5.0 Points

Based on the information in the chart in #11 (above), what is the modal observation?

- A. 150
- B. 160
- C. 170
- D. 180

Reset Selection

Mark for Review What's This?

Question 14 of 20 5.0 Points

The mean of a data set is 42, the mode is 36, and the median value is 40. The data set is:

- A. positively skewed.
- B. negatively skewed.
- C. a symmetrical distribution.

D. No determination on the skewness of the data set can be made without additional information.

Reset Selection

Mark for Review What's This?

Question 15 of 20 5.0 Points

Sometimes, data has two values that have the highest and equal frequencies. In this case, the distribution of the data can best be summarized as:

A. symmetrical.

B. bimodal (having two modes).

C. positively skewed.

D. negatively skewed.

Reset Selection

Mark for Review What's This?

Question 16 of 20 5.0 Points

What is the relationship between the mean and median in a negatively skewed distribution?

A. The mean is less than the median.

B. The median is less than the mean.

C. The geometric mean is higher than the median.

D. They are symmetrical with respect to one another.

Reset Selection

Mark for Review What's This?

Question 17 of 20 5.0 Points

A distribution that has the same shape on either side of the center is said to be:

A. positively skewed.

B. negatively skewed.

C. symmetrical.

D. central.

Reset Selection

Mark for Review What's This?

Question 18 of 20 5.0 Points

What is the relationship among the mean, median, and mode in a symmetric distribution?

A. They are all equal.

B. The mean is always the smallest value.

C. The median is always the largest value.

D. The mode is always the largest value.

Reset Selection

Mark for Review What's This?

Question 19 of 20 5.0 Points

A negatively skewed distribution indicates that:

A. the distribution is not symmetrical.

B. the long tail is to the right.

C. the long tail is to the left.

D. Both A and C

Reset Selection

Mark for Review What's This?

Question 20 of 20 5.0 Points

The weekly sales from a sample of ten computer stores yielded a mean of $25,900; a median $25,000 and a mode of $24,500. What is the shape of the distribution?

A. Symmetrical

B. Positively skewed

C. Negatively skewed

D. Bi-modal

Reset Selection

Mark for Review What's This?

Save