Started on	Thursday, May 14, 2020, 4:57 PM
State	Finished
Completed on	Thursday, May 14, 2020, 5:03 PM
Time taken	5 mins 47 secs
Grade	**100.00** out of 100.00

Question 1

Correct

1.00 points out of 1.00

I hereby certify that all work done for this quiz was my own work. I neither received nor gave assistance for the this quiz.

Select one:

⦿ True ✔

○ False

The correct answer is 'True'.

Information

The New Hanover County Education Board is interested in finding out if local high school teachers are in favor of the new redistricting in the county. There are 4 local traditional high schools in New Hanover County. A sample of 20 teachers were randomly selected from each traditional high school (giving a total of 80 teachers). From this sample, only 38% were in favor of the new redistricting for the county. Use this information to answer the questions below.

Question 2

Correct

5.00 points out of 5.00

What type of sampling is done?

Select one:

○ a. SRS

○ b. None of the methods listed.

⦿ c. Stratified Random Sampling ✔

○ d. Cluster Sampling

○ e. Systematic Sampling

Your answer is correct.

The correct answer is: Stratified Random Sampling

Question 3
Correct

5.00 points out of 5.00

What is the population of interest?

Select one:

- ○ a. The true percent of New Hanover traditional high school teachers that are in favor of the new redistricting.
- ◉ b. All local New Hanover teachers from traditional high schools. ✔
- ○ c. The 80 high school teachers selected.
- ○ d. All high school teachers in North Carolina.
- ○ e. The 38% in favor of the new redistricting.

Your answer is correct.

The correct answer is: All local New Hanover teachers from traditional high schools.

Question 4
Correct

5.00 points out of 5.00

What is the sample?

Select one:

- ○ a. All local New Hanover teachers from traditional high schools.
- ○ b. All high school teachers in North Carolina.
- ○ c. The true percent of New Hanover traditional high school teachers that are in favor of the new redistricting.
- ○ d. The 38% in favor of the new redistricting.
- ◉ e. The 80 high school teachers selected. ✔

Your answer is correct.

The correct answer is: The 80 high school teachers selected.

Question 5
Correct

5.00 points out of 5.00

What is the parameter?

Select one:

- ○ a. The 80 high school teachers selected.
- ○ b. All local New Hanover teachers from traditional high schools.
- ○ c. The 38% in favor of the new redistricting.
- ◉ d. The true percent of New Hanover traditional high school teachers that are in favor of the new redistricting. ✔
- ○ e. All high school teachers in North Carolina.

Your answer is correct.

The correct answer is: The true percent of New Hanover traditional high school teachers that are in favor of the new redistricting.

Question 6

Correct

5.00 points out of 5.00

What is the statistic?

Select one:

○ a. The 80 high school teachers selected.

○ b. The true percent of New Hanover traditional high school teachers that are in favor of the new redistricting.

○ c. All local New Hanover teachers from traditional high schools.

◉ d. The 38% in favor of the new redistricting. ✔

○ e. All high school teachers in North Carolina.

Your answer is correct.

The correct answer is: The 38% in favor of the new redistricting.

Question 7

Correct

5.00 points out of 5.00

The sampling frame is a list of units in the sample.

Select one:

○ True

◉ False ✔

The correct answer is 'False'.

Question 8

Correct

5.00 points out of 5.00

A cross-sectional variable shows how a variable changes across time.

Select one:

○ True

◉ False ✔

The correct answer is 'False'.

Question 9

Correct

5.00 points out of 5.00

The amount of money you have in your checking account is a

Select one:

○ a. Nominal Qualitative

○ b. Ordinal Qualitative

◉ c. Quantitative ✔

Your answer is correct.

The correct answer is: Quantitative

Question 10

Correct

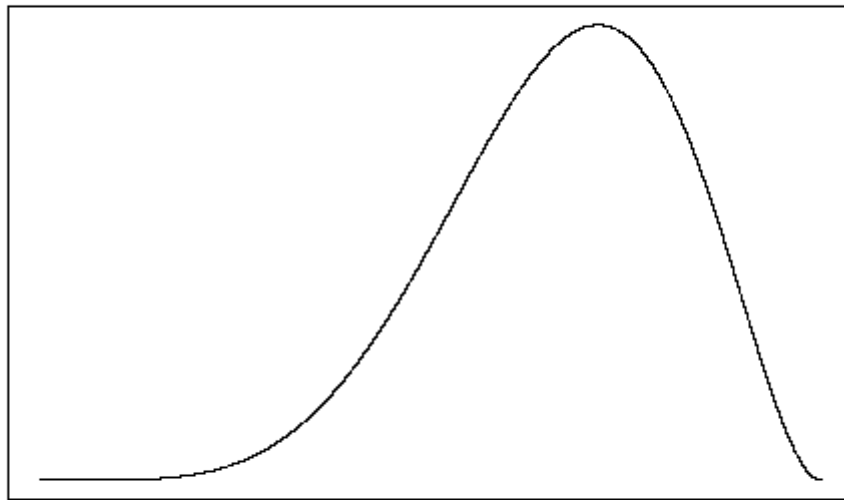5.00 points out of 5.00

Zip codes are an example of

Select one:

○ a. Quantitative

○ b. Ordinal Qualitative

◉ c. Nominal Qualitative ✔

Your answer is correct.

The correct answer is: Nominal Qualitative

Information

Use the following graph to answer the next three questions.

Question 11

Correct

6.00 points out of 6.00

The distribution illustrated in the graph is

Select one:

○ a. Right Skewed

○ b. Symmetric

◉ c. Left Skewed ✔

○ d. None of the choices listed.

○ e. Bi-modal

Your answer is correct.

The correct answer is: Left Skewed

Question 12

Correct

6.00 points out of 6.00

In the displayed distribution, we can infer

Select one:

○ a. Cannot determine which is larger in terms of the median and mean.

◉ b. The mean is smaller than the median. ✔

○ c. The mean is equal to the median.

○ d. The mean is larger than the median.

Your answer is correct.

The correct answer is: The mean is smaller than the median.

Question 13

Correct

6.00 points out of 6.00

The skewness of this distribution would be

Select one:

○ a. Cannot tell tell value of skewness from the graph.

○ b. Positive.

○ c. Zero.

◉ d. Negative. ✔

Your answer is correct.

The correct answer is: Negative.

Question 14

Correct

6.00 points out of 6.00

A leptokurtic distribution is one that

Select one:

○ a. Has tails equal to the normal distribution.

◉ b. Has tails thicker than the normal distribution. ✔

○ c. Has tails thinner than the normal distribution.

Your answer is correct.

The correct answer is: Has tails thicker than the normal distribution.

Question 15

Correct

6.00 points out of 6.00

Outliers should always be removed.

Select one:

○ True

◉ False ✔

The correct answer is 'False'.

The IQR provides the range of the middle [50] ✔ % of data.

The correct answer is: 50

Patients at a certain medical facility have the following distribution for primary insurance coverage:

BCBS	0.55
Aetna	0.20
Cigna	0.10
Humana	0.07
United Healthcare	0.08

What is the probability that a randomly selected patient will have either BCBS or Humana insurance?

Answer: [.62] ✔

The correct answer is: 0.62

What is the probability that a randomly selected patient will NOT have Cigna insurance?

Answer: [.90] ✔

The correct answer is: 0.9

The following table show the probabilities of blood type in the general population.

Blood Type

		A	B	AB	O
RH	RH+	0.34	0.09	0.04	0.38
	RH-	0.06	0.02	0.01	0.06

What is the probability a person will be RH-?

Answer: .15 ✔

The correct answer is: 0.15