Question 1

What are inferential data sets?

- ✓ They are data sets gathered from a representative sample to make generalizations or predictions about a population.

- They are data sets that describe the current or historical state of the observed population.

- They are data sets that allow for summarization of findings based on historical data observed about a population.

- They are often represented in pie charts, bar charts or histograms.

Question 2

How is the Microsoft Excel VLOOKUP tool used in data analysis?

- to summarize descriptive data sets

- to interpret inferential data sets

- ✓ to find specific information in a large spreadsheet

- to find the mean average of data sets

Question 3

What can a data analyst do if they wanted to remove duplicate values in a Microsoft Excel spreadsheet?

- ✓ use VLOOKUP

- use conditional formatting

- parse the data from "text to column"

- highlight errors

Question 4

Which three key pieces of information are required to perform a VLOOKUP function in Microsoft Excel? (Choose three.)

✓ the column number in the range that contains the return value

the mean average of the column

✓ the range where the value is located

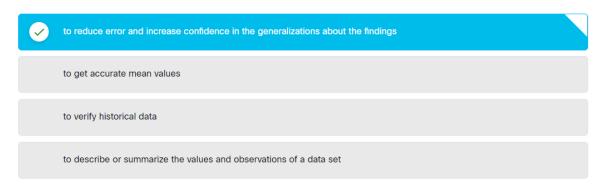the locator value for the blank fields

✓ the lookup value

Question 5

A data analyst wants to find data point values that are significantly different from others in a data set. What are these values called?
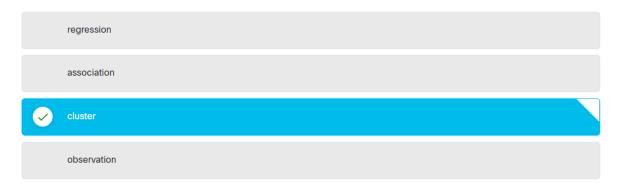
✓ outliers

scatter plots

cluster

associations

Question 6

Why are different sampling techniques used to gather inferential statistical data?

✓ to reduce error and increase confidence in the generalizations about the findings

to get accurate mean values

to verify historical data

to describe or summarize the values and observations of a data set

Question 7

Which type of inferential and machine learning analysis is used to find groups of observations that are similar to each other?

regression

association

✓ cluster

observation

Question 8

Why is regression analytics used in the inferential and machine learning analyses of big data?

It is used to find groups of observations that are similar to each other.

It is used to find to find co-occurrences of values for different variables.

✓ It is used to quantify the relationship, if any, between the variations of one or more variables.

It is used to find the mean average at various data points.

Question 9

A data analyst wants to display the various segments of a country's energy sources (e.g., oil, coal, gas, solar, wind) contributing to 100% of its energy sources in a visual format. What type of chart would be best used to accomplish this?

bar chart

✓ pie chart

column charts

scatter plots

Question 10

A data analyst wants to display outliers in the data set. Which type of visual representation would best suit this task?

line chart

bar chart

✓ scatter plot

pie chart