Exploratory Data Analysis

🚳 Dashboard / My courses / Exploratory Data Analysis / Exploratory Data Analysis Quiz / Quiz: Exploratory Data Analysis

Started on	Saturday, May 30, 2020, 5:17 PM
State	Finished
Completed on	Saturday, May 30, 2020, 5:25 PM
Time taken	8 mins 14 secs
Grade	100 out of 100

Question 1

10 points out of

What is the definition of the sample variance?

Select one:

- $^{\circ}$ a. the average squared difference between each observation and the mean \checkmark
- b. the difference between the largest and the smallest value
- o. the spread of the middle 50% of the observations in a data set
- d. a measure of the average distance between each observation and the mean

Question 2

10 points out of

10

You have a two-level nominal variable, Outcome, and a four-level nominal variable, Method. Which graph should you use to visualize the relationship between Outcome and Method?

Select one:

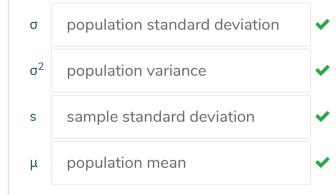
- a. mosaic plot
- b. bubble plot
- c. comparative box plot
- d. scatterplot

Question **3**

Correct

10 points out of 10

Match the value to the symbol.



Question 4

Correct

10 points out of

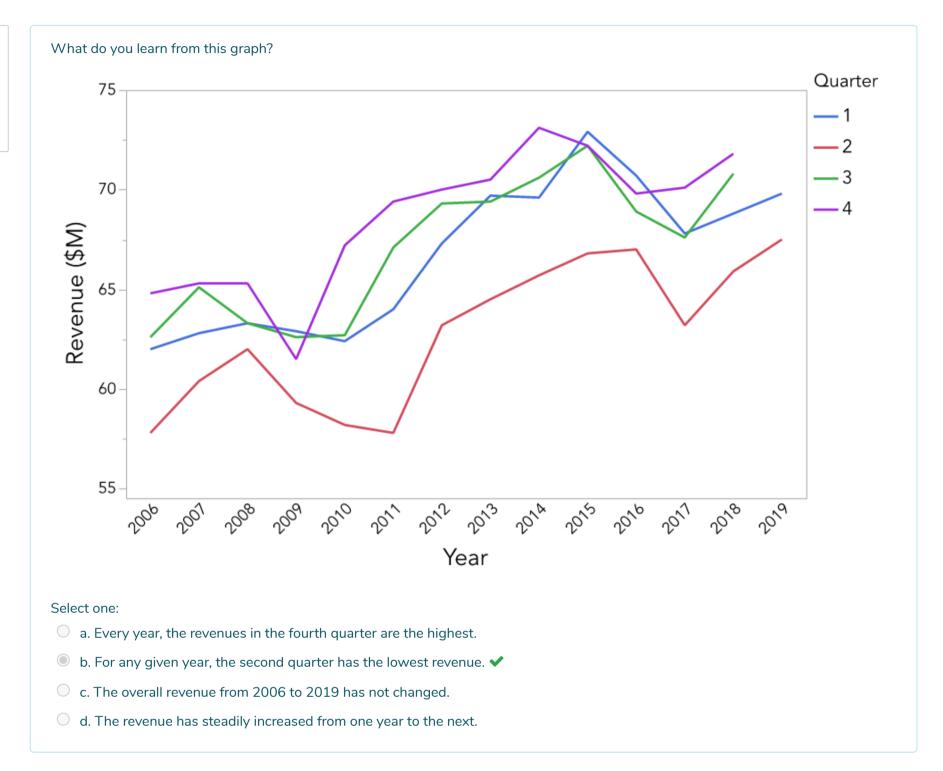
Which of the following is a best practice for customizing visualizations?

- a. Always use the default graph settings provided by the software.
- b. Use exploding pie charts and 3-D bar charts to help tell your story.
- o. Use clip art and special fonts to make the graph look more professional.
- d. Use legends and change the markers to better communicate your message.

Question **5**

Correct

10 points out of 10



Question **6**

10 points out of 10

You have production data for two years in a table with a code for the product name. Another table has the product description and the code for the product name. What should you do to add the product descriptions to the production data?

Select one:

- a. Join the two tables.
- b. Stack the data.
- c. Transpose the data.
- d. Concatenate the two tables.

Question **7**

Correct

10 points out of

10

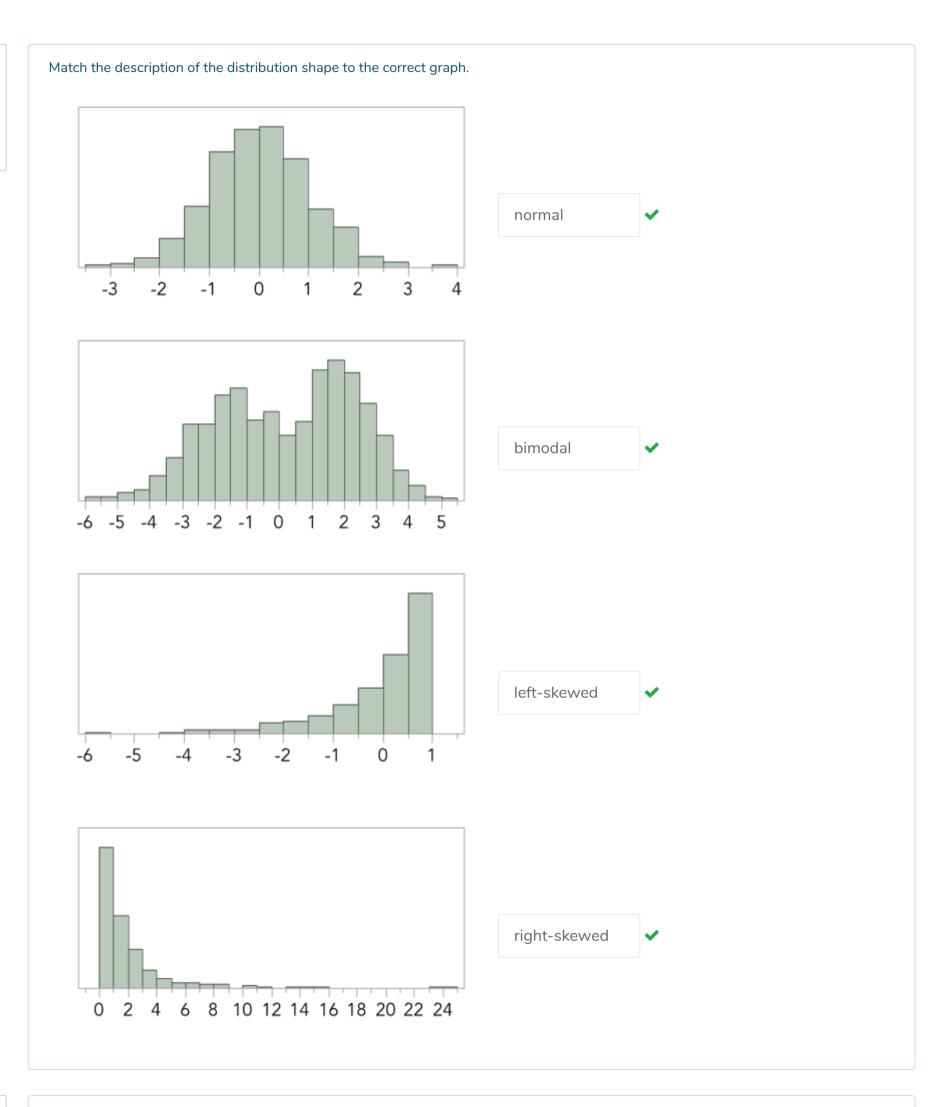
An analyst has determined that a distribution is right skewed. Which kind of graph would tell this story?

- a. scatterplot
- b. bar chart
- ◎ c. histogram ✔
- d. Pareto plot

Question **8**

Correct

10 points out of 10



Question **9**

Correct

10 points out of 10

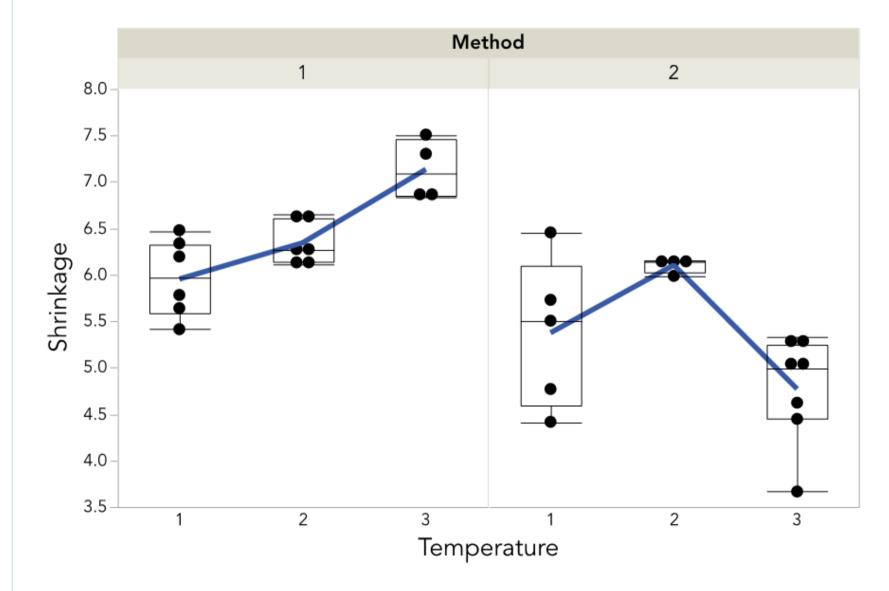
You are studying the variation in parts produced using different machines. You collect data for 100 parts. The variables are **Machine Number** and **Part Size**. Which modeling types are correct for these two variables?

- a. Machine Number is nominal and Part Size is continuous.
- b. Machine Number is continuous and Part Size is continuous.
- Machine Number is continuous and Part Size is ordinal

Question 10
Correct
10 points out of

10

You are studying shrinkage for extruded parts using two methods run at three temperatures. Lower shrinkage is better. What do you learn from this graph?



- $\hfill \bigcirc$ a. The shrinkage for the two methods is the same.
- O b. The shrinkage for the three temperatures is the same.
- $\, \bigcirc \,$ c. Temperature 3 has the highest shrinkage, and temperature 1 has the lowest.
- igcirc d. The shrinkage for each method depends on the temperature. \checkmark