



❗ Correct answers are hidden.

Score for this quiz: 1 out of 1

Submitted Oct 21 at 7:51pm

This attempt took 11 minutes.

## Question 1

0.1 / 0.1 pts

A descriptive analysis is one that tests a statistical hypothesis (such as a t-test)

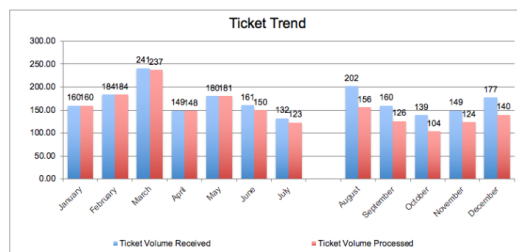
☐ True

☒ False

## Question 2

0.1 / 0.1 pts

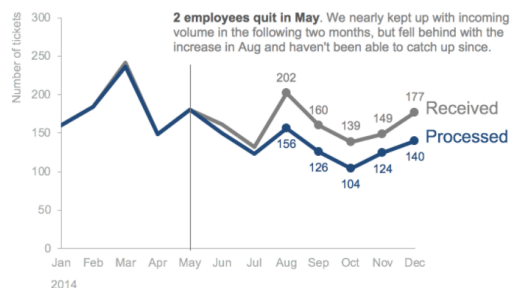
The following two visualizations plot the same information. The plot on the right is a better visualization than that on the left. Select all of the following characteristics of the plot on the right that make it a better visualization than the visualization on the left.



### Please approve the hire of 2 FTE

to backfill those who quit in the past year

#### Ticket volume over time



Data source: XYZ Dashboard, as of 12/31/2014 | A detailed analysis on tickets processed per person and time to resolve issues was undertaken to inform this request and can be provided if needed.



A bar chart is used, which is the right type of plot for displaying trends over time.



A line plot is used, which is the right type of plot for displaying trends over time.



An informative title is included.



Data are annotated directly, making it clear which line is which.



The source of the data are included.

### Question 3

0.1 / 0.1 pts

Pie charts are typically not the right type of plot for visualizing information because...



pie charts can only be used to display continuous data.



pie charts are inaccurate displays of information.



pie charts only allow for display of a single color for each slice of the pie.



it's easier to visually discern differences using the height of bar charts than it is to discern the difference in size of a pie chart.

### Question 4

0.1 / 0.1 pts

Please match the seaborn function with the kind of data visualization you use it for

**sns.histplot()**

To see the distribution ▼

**sns.lineplot()**

To see the change in  $\epsilon$  ▼

**sns.scatterplot()**

To see the relationship ▼

**sns.boxplot()**

To see how grouping I ▼

### Question 5

0.1 / 0.1 pts

What do measures of central tendency tell you about a variable?

- ☐ the maximum value across observations
- ☐ the minimum value across observations
- ☐ the variance in the values across the observations
- ☐ the range of the values across the observations
- ☒ the "typical" value across observations

### Question 6

0.1 / 0.1 pts

To avoid the issues encountered with the data collected from the class on the Fermi Estimation task, what could I have done when setting the survey to make it less work for myself when cleaning the data?

- ☒ required responses to only be numeric
- ☐ limited who responded
- ☐ only accepted correct responses
- ☐ opened the survey up to more people

### Question 7

0.1 / 0.1 pts

A number of `standardize_` functions were used in the Descriptive Analysis notes. Which of the following best describes what they accomplished?

- ☐ Clean up responses from Fermi survey so that all responses were categorical and could be used to calculate the mode across responses.
- ☒ Clean up responses from Fermi survey so that all responses were numeric and could be used to calculate the median across responses.
- ☐ Add variability to the responses from the Fermi survey.
- ☐ Remove incorrect responses from students on the Fermi survey.

### Question 8

0.1 / 0.1 pts

Descriptive and Exploratory data analyses accomplish which of the following? (Check all that apply.)

- ☒ understand relationships between variables
- ☒ understand size of dataset
- ☒ understand distribution/shape of individual variables
- ☐ generate predictive models
- ☐ establish causality between two variables

### Question 9

0.1 / 0.1 pts

By definition, two different datasets with the same mean will also have the same standard deviation.

- ☐ True
- ☒ False

### Question 10

0.1 / 0.1 pts

Clean data is the same thing as tidy data

- ☐ True

☒ False

Quiz Score: **1** out of 1