

Displaying Qualitative Data

Lesson 5 Exam



Question 1

4 points

What type of x variable is appropriate for a line graph?

- A Voltage
- B Time
- C Money
- D Height



Question 2

4 points

What is the difference between a histogram and a bar chart?

- A A histogram looks at continuous data while a bar chart does not
- B A bar chart should be binned and a histogram should not
- C A histogram looks at frequencies while a bar chart does not
- D A bar chart requires color while a histogram does not



✓ Question 3**4 points**

A company wants to determine and fix the few largest quality issues they have in manufacturing. Which of the following chart would BEST help them visualize the data?

A Histogram

B Bar Chart

C Trend Analysis

D Pareto Chart

**✓ Question 4****4 points**

To show a relationship between two continuous variables, what would the MOST appropriate visual?

A Pareto chart

B Side-by-side box plot

C Scatter plot

D Mosaic plot

**✓ Question 5****4 points**

If you add a categorical variable to a line graph, what is the resultant visual?

A Side-by-side Histogram

B Stacked Bar Chart

C Area Chart



D Tree Map

✓ **Question 6**

4 points

What type of data do you need to create a heat map?

A Two variables, one categorical and one quantitative

B As many variables as you want, as long as they are all quantitative

C Three variables, and at least one of them needs to be quantitative



D Two variables, both of them categorical

✓ **Question 7**

4 points

What type of data do you need to create a tree map?

A At least one quantitative variable, and two or more categorical variables, where nesting occurs



B Three or more categorical variables

C Four or more variables, and there needs to be at least two quantitative and two categorical

D Two variables, either both categorical or both quantitative, but not one of each

✓ **Question 8**

4 points

What type of data do you need to create a mosaic plot?

- A** One categorical variable
- B** One categorical and one quantitative variable
- C** Three or more quantitative variables
- D** Two or more categorical variables



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