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TO PASS 80% or higher

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GRADE

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Module 3 Quiz

LATEST SUBMISSION GRADE
85.71%

1. An example of leveraging white space means that...

1 / 1 point

The bars in a bar graph should not be too wide or too narrow.

You must stretch the graph to narrow the margins.

Fill white space with a legend.

You must leave a lot of room between the titles and data.

Correct

White space is crucial in ensuring that the audience picks up on either similarities or differences in a category.
2. True/False: You can use any combination of fonts you'd like to add pop to your visual.

1 / 1 point

False

True

Correct

Stick to the basics and don't go overboard. You will lose your audience with too many font choices as well as make the visualization less effective.
3. Choose the most appropriate way to design a visualization.

1 / 1 point

Choose a corporate or a standard font that is consistent and easy to read.

Use a fun font like Comic Sans to get the reader's attention.

Add a paragraph in small font as a footnote to the visualization to explain every nuance of the data.

Do not coordinate the color of the text with the color of the category.

Correct

Some organizations require you to use the right fonts, but if that's not the case, be conservative in your choice of typeface.
4. True/False: The Gestalt principle of proximity and the first law of geography are closely related.

1 / 1 point

True

False

Correct

Tobler's first law of geography and the Gestalt principle of proximity are virtually the same thing.
5. The Gestalt principle of proximity does not mean...

1 / 1 point

If a data point is not close to other points then it is not related at all.

Things that are close to each other are more likely to be related than those that are further apart.

Correct

Just because a data point isn't close doesn't mean it's not related. If fact, the lack of proximity can help gain insight into the data.
6. What would be the best guess for why there were Cholera deaths of people outside of the neighborhood of the polluted water pump?

1 / 1 point

Polluted water was not the cause of Cholera. There must be some other cause.

The victims died of something other than Cholera.

The researcher was wrong about determining what were polluted pumps.

The victims who lived outside of the hot spot consumed water from the polluted pump despite living further away from the pump.

Correct

Do not infer without evidence that the data are "wrong" or the science is wrong or the epidemiology is wrong. The most likely explanation is that the polluted water pump was still responsible even if the victim didn't live nearby.
7. What other attributes were used in the Cholera map to ascertain which water pump was polluted?

0 / 1 point

Color and size

Continuity

Closure

Symmetry

Incorrect

Please revisit the lesson *Gestalt Principle: Proximity.*
8. True/False: If you're careful and thoughtful you can re-scale complex data to help aid in accessibility of your data.

1 / 1 point

True

False

Correct

The data must never be manipulated in a way that falsifies the story, but calculating indexes and other techniques can help the audience understand the underlying data.
9. True/False: It is unacceptable to use more than one type of pre-attentive attribute.

1 / 1 point

True

False

Correct

You should be very systematic and strategic in choosing which pre-attentive attributes to use. Sometimes it's one, other times it will be more than one.
10. Outliers may be...

1 / 1 point

Always something to be concerned about

Deleted from the dataset

Safely ignored after looking for them

Interesting in its own way and an analyst must understand the context

Correct

Outliers must be understood before you figure out how to answer questions about your data. They could be coding errors, but they could be important in and of itself.
11. In the lessons, we saw a strip plot, scatterplot, histogram, and control charts being used to investigate unusual data. Which of the following visualizations would be another good way to check for outliers?

0 / 1 point

A map for data are within a defined geographic range (such as cities in a particular state or province) and there are a couple of points that are out of the expected range.

A bar chart that has a very small bar that indicates that there is likely outliers.

A pie chart that shows a very small slice for one category means those are outliers.

A line chart which shows a very large spike in one time period.

Incorrect

Please revisit the lesson on *Constructing a Control Chart.*
12. True/False: Because a control chart is often used in manufacturing and heavy industry, paying attention to aesthetics and pre-attentive attributes is not as important.

1 / 1 point

True

False

Correct

Careful use of color and other aesthetics are about making it easy for people to identify important elements.
13. Exploratory analysis is _____?

1 / 1 point

Something that should be ignored if you have a clearly defined question.

Playing around with the data in an aimless way.

Learning about outliers.

Understanding your data well to facilitate explanatory analysis.

Correct

One shouldn't do explanatory analysis without doing at least some exploratory analysis of the data.
14. Anscombe's quartet showed _____.

1 / 1 point

Visualizations are sufficient.

Correlation is causation.

Visualizations are necessary and complements summary statistics.

Summary statistics are not helpful in any way because they mask problems with the data.

Correct

It seems trivial now, but both summary statistics and visualizations are crucial to understanding the data you have.