

Module 1 Quiz

88.88%

True/False: You have 3 data points: 29%, 33%, 31%. It is appropriate to adjust the y-axis to start at 25% because the numbers are so close to each other.

False

O True

Correct
The fact that the numbers are so close to each other is exactly why we'd want to see them compared with the y-axis starting at 0.

Although most authors view pie charts as to-be-avoided at all costs, others do see them as effective. Select the one scenario where both pro- and anti-pie chart writers will agree that pie charts should not be used.

A pie chart with 2 slices.

When there are 5 or more categories that are to be compared.

When Communicating part-to-whole relationship.

Too many categories to compare is best perceived in a bar graph visualization.

1/1 point

 According to your readings, a functionalist perspective of data visualization is ______ When a visualization effectively represents the data so that is can be understood quickly and easily.

When a visualization is comprehensive and can answer every question in one view.

When a visualization is exciting to look at.

O When a visualization uses many colors.

✓ Carrect

The author of the article, <u>Good Visualizations Should Be Boring</u>, defines functionalist perspective as saying, the purpose of visualization is to most effectively represent that data so that it can be understood by the audience both most quickly and easily.

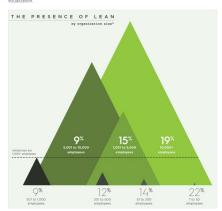
1/1 point



- Then" should be yellow; "now" should be green.
- The y-axis doesn't start at zero.
- Branding visualizations should be avoided at all costs.
- The numbers are wrong.

..... This one is labeled as definitively wrong, while the other options are either not definitely, problematic, or unknown.

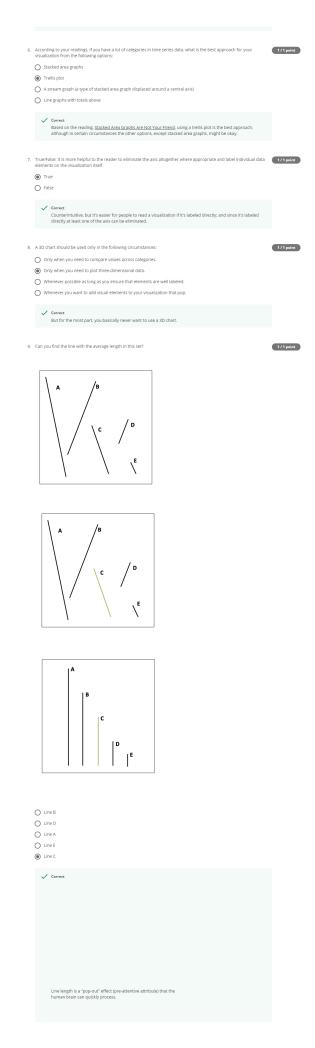
This visualization has several issues with its design. Identify the only one of the following that is not an issue with this
visualization.



- The reference line is not clear.
- O It's very difficult to interpret.
- The bar heights do not match the percentages.
- There is too much text.

✓ Correct

There are so many things wrong with this visualization, but this is not one of them.



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5. Suppose you have a bar graph that has values of 4 and 5. If you start the axis at 0 and increment by 1, then the visual increase between the bars showing 5 and 4 is 25%. See example <i>X</i> . What would the visual increase be between the bars representing 4 and 5 if you started the axis at 3 and incremented by one? See example 8: 12.5% 60% 125% 125% 100% Currect The calculation for the answer is 4 - 3 = 1 and 5 - 3 = 2, so (2 - 1)/1 = 100% or double. 5. Which most closely describes the process of visual encoding? Transposition Transposition Transposition Transposition		
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6. Which most closely describes the process of visual encoding? 171 point Transposition Transcending Correct Visual encoding translates data into a "visual vocabulary	○ 60% ○ 125%	
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Transposition Translation Transcending Correct Visual encoding translates data into a "Visual vocabulary	 60% 125% 100% ✓ Cerrect 	
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Correct Visual encoding translates data into a "visual vocabulary	60% 125% 100% Correct The calculation for the answer is 4 - 3 = 1 and 5 - 3 = 2, so (2 - 1)/1 = 100% or double.	1/1 point
Visual encoding translates data into a "visual vocabulary	60% 125% 100% Cerrect The calculation for the answer is 4 - 3 = 1 and 5 - 3 = 2, so (2 - 1)/1 = 100% or double.	1/1 point
Visual encoding translates data into a "visual vocabulary and language" that the human brain is naturally good at perceiving and	60% 125% 100% Cerrect The calculation for the answer is 4 - 3 = 1 and 5 - 3 = 2, so (2 - 1)/1 = 100% or double.	1/1 point
	60% 125% 100% Correct The calculation for the answer is 4 - 3 × 1 and 5 - 3 × 2, so (2 - 1)/1 × 100% or double. 16. Which most closely describes the process of visual encoding? Transposition Transcending Transcending	1/1 point.
	60% 125% 100% Correct The calculation for the answer is 4 - 3 × 1 and 5 - 3 × 2, so (2 - 1)/1 × 100% or double. 16. Which most closely describes the process of visual encoding? Transposition Transcending Transcending	1/1 point

17. System 2 refers to which type of thinking and responding?	1/1 point
Moderate, methodical, and quantitative	
Fast, intuitive, and emotional	
Slow, deliberate, and logical	
System 2 is the realm of cognitive processing in which people make a focused effort to consider the meaning of what they are seeing. For a visualization to be effectively interpreted, System 1 and System 2, must work together to identify and accurately interpret meaningful patterns.	
18. If you had to figure out the sum of all line lengths, that would involve? © Systems 1 and 2 Only System 1 Only System 2	1/1 point
✓ Correct While you might be able to detect the line with the overage length in a collection, figuring out the sum of all the line lengths, however, takes the kind of conscious and concerted effort embodied by System 2.	