



1 point

1. Which of the following are legitimate types of visualization?
- ☐ explanatory
 - ☐ confirmatory
 - ☐ exploratory
 - ☒ All of the above

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2. The main purpose of Information Visualization is to
- ☐ Create realistic representations of physical objects.
 - ☐ Visualize data with static pictures.
 - ☒ Visualizing abstract data with interactive computer-based representations.

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3. The main purpose of "explanatory visualization" is to help people conduct data analysis.
- ☐ TRUE
 - ☒ FALSE

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4. Tic-tac-toe is easier to play than the game of 15 because ...
- ☐ It's more fun to play.
 - ☒ Its representation makes it easier to remember the state of the game.
 - ☐ People are more familiar with it.
 - ☒ It does not require to mentally add numbers.

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5. A visual representation is more effective than another if ...
- ☒ It helps people carry out a task faster and with less errors.
 - ☐ People like it more.
 - ☒ A computer can render it more efficiently (less computation is needed) .

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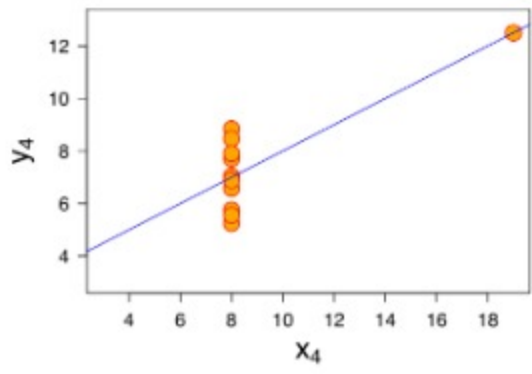
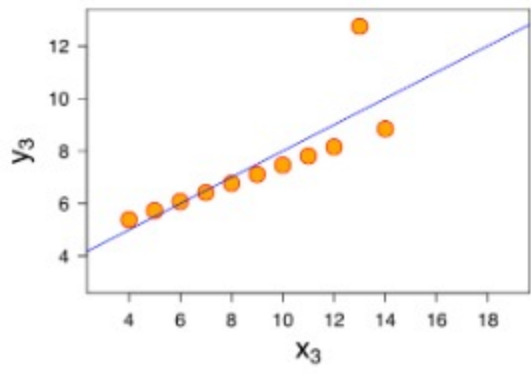
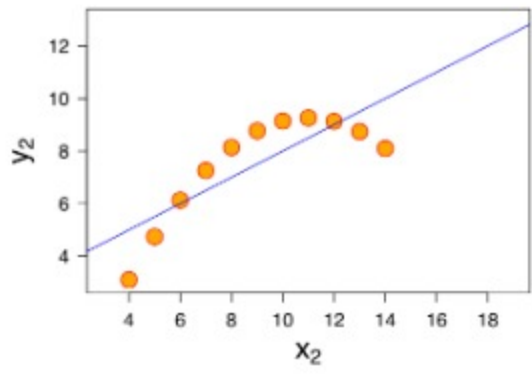
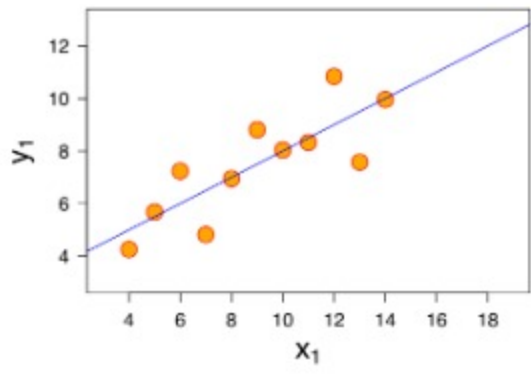
6. When we talk about "abstract data" in visualization we are referring to ...
- ☐ Data that can be visualized with abstract visualizations
 - ☒ Data with no obvious or natural visual representation
 - ☐ Data that has not been collected yet

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7. Which of the following are good motivations for using a graphical representation?
- ☒ Because graphical representations leverage our visual processing system, which is very effective at processing information.
 - ☒ Because humans have evolved to use vision as the main tool to process external information.
 - ☐ Because they can present information and the highest level of detail possible.

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8. Which of the following is the main message behind the "Anscombe's Quartet"?



- ☐ That scatter plots are a very effective visualization method.
- ☒ That aggregate statistics can hide relevant information that becomes readily apparent once it is visualized.
- ☐ That it's very important to always calculate statistics to describe a plot.

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9. Which of the following are good reasons for making visualization interactive?
- ☒ Because it is not always possible to visualize all the necessary information at once and interaction permits users to show only specific information on demand.
 - ☒ Because it permits users to change the way information is presented in a visualization.
 - ☐ Because visualizations are not able to convey information without interaction.

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10. Visualization amplifies cognition because ...
- ☐ It makes it fun to deal with numbers.
 - ☐ It makes number more aesthetically pleasing.
 - ☒ It offloads some of the mental computations needed to solve a problem to visual perception.

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