Discussion: Unit 2, Due Wednesday by 11:59 pm CT

Unit 2 Discussion - Misleading Graphs

Can inaccurate graphs bias the interpretation of data? Graphs provide a visual representation of data meant to provide information. Here are three graphs that may present data in an inaccurate or misleading manner.  Choose one graph for this discussion and answer the questions based on your chosen graph.

Graph 1 was used to display changes in the Unemployment Rate over 12 months



 Graph 2 was used to display pizza topping preferences based on a survey of people living in the United Kingdom



Graph 3 was used to display the number of complaints reported for six different airlines per the US Department of Transportation in February 2013.



Instructions

For this discussion, you are to choose one graph, and complete these steps based on the graph you chose:

Steps

* State the graph you chose.
* Discuss how you interpreted the graph when you first saw it.
	+ What did it tell you about the data represented?
	+ Did you find it confusing?
* Now, study the graph. Use your understanding of the topics Graphs, Pie Charts, and Bar Charts to interpret what is being presented.
* Compare your first impression with your second more informed interpretation and answer the following:
	+ Is the information presented in a biased way (that is, is it misleading?)
	+ What information is being misinterpreted here? How?
	+ What type of graph was used and was it used correctly?
	+ How could you correct the graph so that it more accurately represents the data?
* Discuss why someone might intentionally use a graph to mislead?

Please be sure to validate your opinions and ideas with citations and references in APA format.

Rubric:

**Course Discussion Unit 2**

| Course Discussion Unit 2 |
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| **Criteria** | **Ratings** | **Pts** |
| This criterion is linked to a Learning OutcomeContentMA320-CO1 |

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| **10 pts****Level 5**Post addresses all of the required prompt elements in the discussion | **9 pts****Level 4**Post addresses all of the required prompt elements in the discussion - does not demonstrate a full understanding of course content and unit topic. | **8.5 pts****Level 3**Post is missing important elements, demonstrates a limited understanding of the topic and/or course concepts, offers limited validation of personal position. There is evidence of some supporting evidence; there is a reference to the research literature, text, course materials, or related examples. | **7.5 pts****Level 2**Post and responses are missing important elements related to the discussion and demonstrate a lack of understanding of the topic and lacks validation of position, and/or there is no use of supporting items of evidence. | **7 pts****Level 1**Post does not address discussion questions, and/or does not demonstrate an understanding of the topic and/or lacks validation of position with no use of supporting items of evidence. | **0 pts****Level 0**Post was not submitted or there is no relationship between the post and the discussion prompt. |

 | 10 pts |
| This criterion is linked to a Learning OutcomeAnalysisPRICE-I |

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| **10 pts****Level 5**The analysis of the topic includes breadth and depth, is aligned to the unit topic, relates to the course content and personal analysis is supported by well-aligned references and examples. | **9 pts****Level 4**The analysis of the topic is justified, and aligned to the unit topic, and personal analysis is supported by well-aligned references and/or examples. | **8 pts****Level 3**There is a basic analysis of the topic, and personal analysis is supported by well-aligned examples. | **7 pts****Level 2**There is minimal evidence of analysis of the topic and/or personal analysis is not supported by well-aligned examples or references. | **6.5 pts****Level 1**There is no evidence of analysis. | **0 pts****Level 0**Post was not submitted or there is no relationship between the post and the discussion prompt. |

 | 10 pts |
| This criterion is linked to a Learning OutcomeCollaborationPRICE-E |

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| **8 pts****Level 5**Collaborates with fellow learners at the required level relating the discussion to relevant course concepts and extending the conversation by asking open-ended questions to move the conversation forward, and answers questions asked on the post by instructor and peers. | **7 pts****Level 4**Collaborates with fellow learners at a comprehensive level and relates the content to relevant course concepts but does not extend the conversation by asking open-ended questions. There are responses evident to questions asked by instructor or peers. | **6 pts****Level 3**Collaborates with fellow learners but does not respond at a comprehensive level, and/or does not extend the conversation by asking or answering questions, and/or makes little connection to course content. | **5 pts****Level 2**Does not collaborate with fellow learners regarding the peers' posts and/or makes no connection to course content and/or does not respond to peer and instructor responses, or the number of responses did not meet the requirement. | **4 pts****Level 1**Does not collaborate with fellow learners and instructor. | **0 pts****Level 0**Post was not submitted. |

 | 8 pts |
| This criterion is linked to a Learning OutcomeWriting |

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| **8 pts****Level 5**Posts in this discussion are well written and well organized demonstrating excellence in scholarly writing. Mechanics (spelling and punctuation) and grammar are excellent. | **6.5 pts****Level 4**Posts in this discussion are well written and well organized scholarly material but have 1-2 different minor errors in mechanics and/or grammar. | **4.5 pts****Level 3**Posts in this discussion are basic examples of scholarly material but have 3 different errors in mechanics and/or grammar. | **4 pts****Level 2**Posts in this discussion are not clear and/or lack organization and/or have 4 or more different errors in mechanics and/or grammar. | **2 pts****Level 1**Posts in this discussion lack evidence of clear, organized scholarly writing. | **0 pts****Level 0**Post was not submitted. |

 | 8 pts |
| This criterion is linked to a Learning OutcomeAPAPRICE-I |

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| **4 pts****Level 5**Posts in this discussion demonstrate appropriate in-text citations of sources and references in proper APA style. | **3 pts****Level 4**Posts in this discussion demonstrate appropriate in-text citations of sources and references but have 1-2 minor APA errors. | **2.5 pts****Level 3**Posts in this discussion demonstrate appropriate in-text citations of sources and references but have 3-4 minor APA errors. | **2 pts****Level 2**Posts in this discussion demonstrate appropriate in-text citations of sources and references but have more than 4 APA errors. | **1 pts****Level 1**Posts in this discussion do not provide either in-text citations or reference sources and/or have 4 or more APA errors. | **0 pts****Level 0**Post was not submitted. |

 | 4 pts |
| Total Points: 40 |