

✓ **Congratulations! You passed!**

Grade received **100%** To pass 80% or higher

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## Data Visualization and Translation

Latest Submission Grade 100%

1. You own a fast casual restaurant with a limited menu. You analyze the service times and determine that a process can be implemented that will speed up the time it takes for a server to take an order and submit the ticket to the kitchen. You believe it will result in a faster turn time for the table, thus allowing for more parties to be served, resulting in an increase in revenue. What potential issue might not be identified and recognized if you do not conduct a post-implementation evaluation?

1 / 1 point

- ☐ The servers will be upset and your turnover for employees will increase.
- ☒ The kitchen may already be at 100% capacity and cannot product orders any faster.

✓ **Correct**  
 Correct! The change implemented could result in a bottleneck in the kitchen.

- ☐ Revenues may decrease because guests will feel rushed through the meal.
- ☒ There might be a limited number of dishes and a faster turn time means they cannot be cleaned fast enough.

✓ **Correct**  
 Correct! The change implemented could result in a bottleneck in the dish room.

2. What chart is most appropriate to show each week's performance in the given data?

1 / 1 point

Week	Sales
2/2/20	\$137,975
2/9/20	\$152,084
2/16/20	\$141,286
2/23/20	\$132,774
3/1/20	\$148,624

- ☐ Pie Chart
- ☐ Stock Chart
- ☒ Column Chart
- ☐ Scatterplot

✓ **Correct**  
 Correct! Since this is a limited dataset and each week needs to be compared to the rest of the set, a column chart is appropriate.

3. You are looking to create an interactive dashboard showing a breakdown of spend by client, compared to anticipated sales per client. The information you will use is text, date/time, numerical, and geographic data. You want your dashboard at minimum to have a column chart, a map, and a gauge chart. What application are you unlikely to use?

1 / 1 point

- ☒ Minitab

✓ **Correct**  
 Correct! Minitab is not primarily used for creating dashboards. There is more than one correct answer.

- ☐ Tableau
- ☐ Power BI
- ☒ Excel

✓ **Correct**  
 Correct! Excel does not have great geographic visualizations and it does not have built-in gauge charts. There is more than one correct answer.

There is more than one correct answer.

4. You are tasked with creating a reporting dashboard in Tableau that is to be used by executives in your organization. You receive the requirements, find the data, clean the data, and immediately start creating in Tableau. When you finish, you upload the dashboard to a centralized site for the executive team to start using. What important step did you miss?

1 / 1 point

- ☐ Creation of a formal presentation
- ☐ Set up permissioning for the dashboard
- ☐ Generate buy-in
- ☒ Paper Sketch

✓ **Correct**  
Correct! A paper sketch draft should be completed prior to creating the dashboard in Tableau.

5. It is possible to make dashboards in Excel.

1 / 1 point

- ☒ True
- ☐ False

✓ **Correct**  
Correct. While it is more difficult, dashboards can be created in Excel for small datasets, using slicers as filters for your visualizations.

6. You join a new company that is looking to implement a new data visualization platform to develop reporting using extremely large datasets that will be accessed by 12 offices across the country. You learn that the company uses Azure as its data solution. What application might you then recommend?

1 / 1 point

- ☒ Power BI

✓ **Correct**  
Correct! Power BI has solid permissioning to ensure users across the enterprise are not editing at will. It can handle large quantities of data, and works seamlessly with Azure. There is more than one correct answer.

- ☐ Excel
- ☐ Python
- ☒ Tableau

✓ **Correct**  
Correct! Tableau can be set up with strict version controls, is set up well to handle centralized reporting, can handle large quantities of data, and works well with Azure. There is more than one correct answer.

7. You are asked to complete an analysis that focuses on reducing costs in a manufacturing plant. You create a data model that determines you can reduce costs associated with a specific product by 10%, with no anticipated unintended consequences. The organization implements the changes and the 10% cost reduction is proven to be accurate.

1 / 1 point

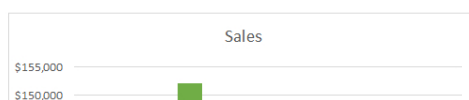
True or False: You are now done with the project and you do not have to look at it again.

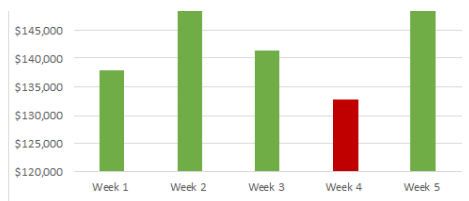
- ☐ True
- ☒ False

✓ **Correct**  
Correct! Just because the analysis predicts there will not be any negative impact, it does not mean that there won't be any consequences of the change. It is important to follow up and evaluate different metrics post-implementation to ensure another aspect is not experiencing a negative effect.

8. You receive the following chart for your review:

1 / 1 point





What change would you suggest the author makes to ensure it can be read by all audiences?

- ☐ Adjust the Y axis
- ☐ Change the chart type
- ☐ Get rid of the white space between columns
- ☒ Change the colors



**Correct**

Correct! Red and green are difficult for those with a color deficiency to differentiate between. Changing the colors to a scheme such as blue and orange will get the same message across, but it will be easier for all audiences to consume.

9. You are asked to coach a new analyst through developing and drafting a data story. The basic steps you outlined for the new analyst are:

1 / 1 point

1. Develop the narrative
2. Use a tool to organize key points and get a storyline together
3. Outline who the key audience is and ensure the message appeals to those figures
4. Edit and ensure the document is user-friendly

True or False: During your explanation, you missed one of the key points to developing a data story.

- ☐ True
- ☒ False



**Correct**

Correct! The steps listed above are a thorough guideline to walk a new user through the development of a data story.

10. You are a department manager with a background in marketing. An executive approaches you about an opportunity to lead an analytics project within your organization, but a lot of the information that is being presented is based on financial data. It's worth pursuing to further your knowledge of how the organization operates as a whole. You delegate the statistical analysis to an analyst who comes back with a list of insights that they think could be worth investigating. Because you are not an expert in regards to all of the information, you employ a data action plan. What is a step you are NOT likely to take when developing this plan?

1 / 1 point

- ☐ Establish your goals and determine if they are short-term or long-term.
- ☐ Understanding feasibility and/or limitations you might run into.
- ☐ Determine how you will measure the changes and what KPIs you will use.
- ☒ Creating a narrative that will appeal to different audiences.



**Correct**

Correct! Creating a narrative is a step in developing a data story; it is not usually part of an action plan.