

1. In the context of color theory, how many color combinations are available to use from the color wheel?

0 / 1 point

☒ 3

☐ 4

☐ 5

☒ Incorrect

Not quite. Please review the video *Introduction to color theory*.

2. In the Microsoft Power BI core visualization pane, which chart type can optimize high-density information in the limited space of a report canvas? Select all that apply.

1 / 1 point

☒ Dot plot chart

☒ Correct

That's correct! A dot plot chart enables you to visualize multidimensional data with particular emphasis on categorical information on the horizontal axis.

☒ Scatter plot

☒ Correct

That's correct! With a scatter plot, you can visualize high-density data with multiple numeric values.

☒ Bubble chart

☒ Correct

That's correct! A bubble chart allows you to add a third numerical data dimension as the size of the bubble.

☐ Line chart

3. True or False: Microsoft Power BI allows you to customize its built-in theme to fulfill your business and visualization requirements without uploading a JSON (JavaScript Object Notation) file or writing any code.

1 / 1 point

☒ True

☐ False

☒ Correct

That's correct! You can activate any Microsoft Power BI theme and customize it according to your needs.

4. You are a Microsoft Power BI analyst and report designer in a multinational home décor company that has developed a customized color scheme as their brand asset. The company insists on using their brand color schemes in all Microsoft Power BI reports. How can you incorporate this color scheme into your Microsoft Power BI workflow?

1 / 1 point

☒ Build the color scheme and upload it to Microsoft Power BI as a custom theme.

- ☐ Create a report and save it as a template for future use.
- ☐ Apply a Microsoft Power BI built-in theme that resembles the company's brand color scheme and perform further adjustments based on HEX codes.

☒ Correct

That's correct! You can create your own color palette in the form of a JSON file and upload it to Microsoft Power BI desktop as a custom theme. This will create a consistent use of customized colors for a brand throughout your report design.

5. Microsoft Power BI desktop supports many accessibility tools. You want to add an image to your report canvas in an accessible way. What are the keyboard keys you need to use to navigate to the Insert tab of Power BI desktop?

1 / 1 point

- ☐ Alt and then M
- ☒ Alt and then I
- ☐ Tab and then I

☒ Correct

That's correct! The Alt key displays the keytips over each command in the current view of the ribbon, with a letter displayed on each tab. You then need to press I to navigate to the Insert tab of Microsoft Power BI desktop.

6. You have recently joined as a data analyst at Adventure Works and received a Microsoft Power BI report. You've been asked to create coherence in the report. There is one chart in the report that differs from all the others, in terms of colors, fonts, and style. The Visualization pane, Format tab does not allow you to format the chart's colors, fonts, and style. You discover that the chart is created using Python. How can you create consistency in the report?

1 / 1 point

- ☐ Delete the chart and use a Microsoft Power BI core visualization that you can format according to the requirements.
- ☐ Delete the chart and install a custom visual from AppSource that allows you to format the chart.
- ☒ Modify the Python code to change the color, font, and style of the chart.

☒ Correct

That's correct! When using a Python-based visualization in Microsoft Power BI, you cannot format the visual using the Microsoft Power BI format visual tab controls. To change the color, style, and font size, you must modify the source script that is used to build the Python visual.

7. In Microsoft Power BI, which map visuals provide multiple layers and better control options?

1 / 1 point

- ☐ Shape map
- ☐ Filled map
- ☒ Azure maps

✓ Correct

That's correct! In Azure maps, you can control the map settings and format its style by selecting multiple layers.

Azure maps has the option of heat maps, filled maps, and bubble layers to select for specific visualization needs.

8. True or False: In Microsoft Power BI desktop, the shape map visual does not support the creation of a geo-hierarchy.

1 / 1 point

☒ True

☐ False

✓ Correct

That's correct! Shape map visuals in Microsoft Power BI work with custom regions or shapes therefore, they do not support the generation of geo-hierarchy.

9. What information does a KPI chart display if properly visualized and formatted? Select all that apply.

0 / 1 point

☒ Target value

✓ Correct

That's correct! When you create a KPI chart and enter the current and target values to the respective wells of the chart, the KPI visual automatically displays the target values as a goal.

☒ Percentage difference

✓ Correct

That's correct! When you create a KPI chart and enter the current and target values to the respective wells of the chart, the KPI visual automatically displays the percentage difference as negative or positive values.

☐ Sales breakdown by trend axis.

☐ Time

You didn't select all the correct answers

10. True or False: You can optimize both Microsoft Power BI report and dashboard in Microsoft Power BI service.

1 / 1 point

☒ True

☐ False

✓ Correct

That's correct! Microsoft Power BI service allows you to optimize your reports and dashboards.

11. Which elements contribute toward making an appropriate chart selection for creating a compelling data story? Select all that apply.

0 / 1 point

☒ Your audience.

✓ Correct

That's correct! Understanding audience needs plays a pivotal role in an appropriate chart selection for the visualization.

☒ Data quality.

☐ This should not be selected
Not quite. Please review the video *Clarity and visual impact in charts*.

☒ The message you want to convey.

☒ Correct
That's correct! The message you want to convey, for example, deciding whether it is a comparison, distribution, or trend, will also help to determine the chart type for visualization.

☒ Data type

☒ Correct
That's correct! Understanding the data's nature, whether numerical, categorical, or geographical, helps you select an appropriate chart for the visualization.

12. In Microsoft Power BI, which chart is most suitable to display three numerical values, enabling you to analyze complex relationships among variables?

1 / 1 point

☒ A 3D scatter plot

☐ A scatter plot

☐ A dot plot chart

☒ Correct
That's correct! With the use of a 3D scatter plot, you can visualize three numerical values and their relationship to analyze complex data structures.

13. True or False: You can use a Python-based visualization library inside Microsoft Power BI to visualize data on a heat map.

1 / 1 point

☒ True

☐ False

☒ Correct
That's correct! Python and its rich visualization libraries allow you to create a heat map to visualize your data.

14. What are the potential limitations of using Python for visualization inside Microsoft Power BI? Select all that apply.

0 / 1 point

☒ Using Python in Microsoft Power BI raises security concerns.

☒ Correct
That's correct! Integrating external Python scripts might raise security concerns for organizations as executing external code can introduce vulnerabilities or data privacy risks.

☒ The input data size is limited to 250MB.

☒ Correct

That's correct! The dataset size used by Python is limited to 250K rows and input data is limited to 250 MB.

☒ Python has limited visualization capabilities.

☒ This should not be selected

Not quite. Please review the reading *Microsoft Power BI and Python*.

☒ Python visuals do not support renaming columns and fields in Microsoft Power BI.

☒ Correct

That's correct! You cannot rename columns and fields in Microsoft Power BI formatting option, a modification in the source script is needed to apply any changes.

15. What chart types are a variation of a scatter chart in the Microsoft Power BI desktop core visualization pane? Select all that apply.

1 / 1 point

☐ A treemap

☒ A dot plot chart

☒ Correct

That's correct! A dot plot is a variation of a scatter plot where you use categorical data on the horizontal axis of the visual.

☒ A bubble chart

☒ Correct

That's correct! Microsoft Power BI core visualization pane does not have a bubble chart, you need to select a scatter chart and convert it to a bubble chart. Therefore, it is a variation of a scatter chart.

☐ A combo chart

16. What type of formatting can you perform in the conditional formatting option of Microsoft Power BI? Select all that apply.

0 / 1 point

☒ Column colors

☒ Correct

That's correct! You can apply conditional formatting to the column colors of your column chart, for example, to display variations in sales values.

☐ Table columns fonts

☒ Chart background color

☒ This should not be selected

Not quite. Please review the reading *Tips and tricks for formatting in reports*.

☐ Chart title

17. In any dataset, there are often outliers or data points that deviate significantly from the norm. These outliers can provide valuable insights or indicate areas that require attention from the decision-makers. What is the best way to highlight the outliers in your report?

1 / 1 point

☐ By creating a card visual.

☒ By using a different color.

☐ By making the text bold.

☒ Correct

That's correct! Color has an instant reaction, therefore changing the color of the outliers in your data is the best option to highlight this piece of information.

18. True or False: Generalization is a type of data anonymization where a deliberate removal of certain data elements is performed to prevent identifying individuals or sensitive information.

1 / 1 point

☐ True

☒ False

☒ Correct

That's correct! Generalization involves simplifying or aggregating data to a higher level of abstraction, often to protect privacy or reduce complexity.

19. You have created a custom color palette for your Microsoft Power BI reports and visualizations. What file format do you need to save to upload to Microsoft Power BI as a custom theme?

1 / 1 point

☒ JSON

☐ DOCX

☐ XLSX

☒ Correct

That's correct! Microsoft Power BI only allows a JSON file as a custom theme to integrate your own color scheme into your reports and visualizations.

20. Your data model contains 3 data tables: sales, product, and date. You need to create a Python-based visual displaying sales of product categories over time. In addition to the installation of Python and its libraries, what is the primary step you must ensure to avoid any error in visualization?

1 / 1 point

☒ Make sure the data tables have appropriate relationships.

☐ Make sure the dataset does not have duplicate values

☐ Make sure the Python visualization libraries are up to date.

☒ Correct

That's correct! Without the appropriate relationship between data tables of the data model, Python will not be able to visualize data because you need to bring date from the date table, product categories from the product table, while sales values must come from the sales fact table.

21. What elements should you consider while designing a report in Microsoft Power BI to maximize the report's impact for all types of viewers? Select all that apply.

1 / 1 point

☐ You should only include the key metrics and KPIs in your report.

☐ You must limit the report to one page.

☒ You need to emphasize storytelling techniques.

☒ Correct

That's correct! Reports are designed to tell a data-driven story. You need to arrange visual elements in a logical sequence to guide users about the introduction, main body, and conclusion of the story.

☒ You need to introduce interactivity to engage users.

☒ Correct

That's correct! In the report design, you must consider adding slicers, filters, and drill-down and drill-through functionality to access granular data.

22. What media type can you include in your dashboard to indicate the title and conclusion of the story?

1 / 1 point

☐ A logo file.

☐ A text box from Microsoft Power BI report.

☒ A text box.

☒ Correct

That's correct! You can select the text box after enabling Add a tile. In the text box, you can write and format your title and conclusion of the data story.

23. You are a Microsoft Power BI developer in Adventure Works handling the customer service information and creating a real-time dashboard to draw key insights about the number of support request tickets opened and closed. What information should you include in your dashboard? Select all that apply.

1 / 1 point

☒ Customer support ticket volume over time.

☒ Correct

That's correct! Customer support ticket volume is related to customer service so you must include this information in your dashboard.

☒ Highlight frequently reported problems.

☒ Correct
That's correct! Frequently reported problems help the management to devise a strategy for resolving the issue.

☒ Real-time view of open tickets.

☒ Correct
That's correct! Including a real-time view of open tickets provides valuable information about the products and services provided by the company.

☐ Provide demographic information of customers.

24. You want to add an external URL to your Microsoft Power BI dashboard. What methods allow you to add external web sources as hyperlinks to your dashboard? Select all that apply.

1 / 1 point

☒ Add the site as a hyperlink in the text box tile.

☒ Correct
That's correct! In the text box tile of a dashboard, you can write the text and convert it as a hyperlink.

☒ Select web content and embed the code.

☒ Correct
That's correct! In Microsoft Power BI service, you can add a tile and select web content where you can embed the external web sources as code.

☐ Pin the visual from the Microsoft Power BI report containing the URL.

☒ Add an image file and use the title and subtitle as hyperlinks.

☒ Correct
That's correct! In the image, you can enable the title and subtitle checkbox and add an external URL to make a hyperlink.

25. You need to visualize the real-time data in your Microsoft Power BI dashboard as per the analytical requirement of the business. How many live-streaming data options does Microsoft Power BI support?

1 / 1 point

☐ 5

☐ 1

☒ 3

☒ Correct
That's correct! In Microsoft Power BI service, while designing dashboards, you can include real-time data tiles from 3 different live-streaming data types.

26. What element of the data storytelling process provides evidence and context for the story?

1 / 1 point

☐ Visualization

☐ Narrative

☒ Data

☒ Correct

That's correct! Data is the core of data storytelling. It provides context, substance, and evidence to convey the primary message of your story to your audience.

27. In the process of data storytelling, which step deals with the establishment of a functional data model?

1 / 1 point

☐ Data visualization.

☐ Data analysis and exploration.

☒ Data collection and preparation.

☒ Correct

That's correct! Before you start the process of storytelling, you need structured data that you obtained from various sources. A functional data model must be in place before you start the process of data analysis and exploration, which provides the main message of your story.

28. In the data storytelling process, what is the role of business analytic tools?

1 / 1 point

☐ They provide automation for chart selection

☒ They provide context to your data story

☐ They provide structure to your data story

☒ Correct

That's correct! Business analytic tools provide a necessary platform to interpret the data within the context and enable users to understand the key insights and highlights of the data.

29. True or False: Typically, you create a report in Microsoft Power BI desktop, and then to create a QR code for the report, you must publish the report to Microsoft Power BI online.

1 / 1 point

☒ True

☐ False

☒ Correct

That's correct! Only Microsoft Power BI service allows you to generate a QR code for your report or dashboard tile therefore, you must publish your report before creating the code.

30. In the edit mobile layout screen of Microsoft Power BI service, how many panes are present to optimize your dashboard?

1 / 1 point

☒ 2

☐ 1

☐ 3

☒ Correct

That's correct! The edit mobile layout screen consists of two panes: the edit mobile layout, and the unpinned tiles panes.