Try again once you are ready Grade received 79% To pass 80% or higher Try again

The following questions are designed to help you assess your comfort level with general data analytics principles and data types. Use them to self-reflect and make your own decisions about the foundational knowledge you need to be successful in this course.

1.	What is data science?	0 / 1 point
	A process used to solve complex problems in a user-centric way  The collection, transformation, and organization of data in order to draw conclusions, make predictions, and drive informed decision-making A tool for organizing data elements and how they relate to one another  A field of study that uses raw data to create new ways of modeling and understanding the unknown  Incorrect  Data science is a field of study that uses raw data to create new ways of modeling and understanding the unknown. To learn about data science, enroll in the Google Data Analytics Certificate.	
2.	What is the key difference between qualitative and quantitative data?  Qualitative data measures qualities and characteristics; quantitative data measures numerical facts.  Qualitative data is about the quality of a product or service; quantitative data is about how much of that product or service is available in the marketplace.  Qualitative data is subjective; quantitative data is specific.  Qualitative data describes the kind of data being analyzed; quantitative data describes how much data is being analyzed.	1 / 1 point
	Correct Qualitative data measures qualities and characteristics; quantitative data measures numerical facts.	
3.	that apply.	0 / 1 point
	<ul> <li>Wide data subjects can have data in multiple columns.</li> <li>Correct         Wide data subjects can have data in multiple columns. Long data subjects can have multiple rows that hold the values of subject attributes.</li> <li>Wide data subjects can have multiple rows that hold the values of subject attributes.</li> </ul>	

- X This should not be selected Wide data subjects can have data in multiple columns. Long data subjects can have multiple rows that hold the values of subject attributes. To learn about data types, enroll in the Google Data Analytics Certificate.
- Long data subjects can have data in multiple columns.
  - X This should not be selected Wide data subjects can have data in multiple columns. Long data subjects can have multiple rows that hold the values of subject attributes. To learn about data types, enroll in the Google Data Analytics Certificate.
- Long data subjects can have multiple rows that hold the values of subject attributes.
  - Correct
    Wide data subjects can have data in multiple columns. Long data subjects can have multiple rows that hold the values of subject attributes.
- 4. Structured data is likely to be found in which of the following formats? Select all that apply.

0.5 / 1 point

- Digital photo
  - X This should not be selected Structured data is organized in a certain format such as rows and columns. It is likely to be found in a table or spreadsheet. To learn about structured data, enroll in the Google Data Analytics Certificate.
- Spreadsheet
  - Correct
    Structured data is organized in a certain format such as rows and columns. It is likely to be found in a table or spreadsheet. To learn about structured data, enroll in the Google Data Analytics Certificate.
- Database table
  - Correct
    Structured data is organized in a certain format such as rows and columns. It is likely to be found in a table or spreadsheet. To learn about structured data, review course three of the Google Data Analytics Certificate.
- Audio file
  - This should not be selected Structured data is organized in a certain format such as rows and columns. It is likely to be found in a table or spreadsheet. To learn about structured data, enroll in the Google Data Analytics Certificate.

5. Fill in the blank: A Boolean data type can have possible value(s).	1 / 1 point
infinite one three two	
A Boolean data type can have two possible values.  The following questions are designed to help you assess your comfort level with dat strategy. Use them to self-reflect and make your own decisions about the foundation knowledge you need to be successful in this course.	
<ul> <li>6. What is the term for the individuals who have invested time and resources in a project and are interested in its outcome?</li> <li>Subject-matter experts</li> <li>Executives</li> <li>Project sponsors</li> <li>Stakeholders</li> <li>Correct Stakeholders are individuals who have invested time and resources in a project and are interested in its outcome.</li> </ul>	1 / 1 point
<ul> <li>7. When collecting data for a study, what are some reasons to consider sample size? Select all that apply.</li> <li>To make sure a few unusual responses don't skew results</li> <li>Correct Considering sample size ensures the data represents a diverse set of perspectives and helps avoid skewed results or inaccurate judgements.</li> <li>To collect data that represents a diverse set of perspectives</li> <li>Correct Considering sample size ensures the data represents a diverse set of perspectives and helps avoid skewed results or inaccurate judgements.</li> <li>To include as many participants as possible in the study</li> </ul>	0.5 / 1 point
This should not be selected	

Considering sample size ensures the data represents a diverse set of perspectives and helps avoid skewed results or inaccurate judgements. To learn about sample size, enroll in the Google Data Analytics Certificate. To eliminate certain segments of a population (x) This should not be selected Considering sample size ensures the data represents a diverse set of perspectives and helps avoid skewed results or inaccurate judgements. To learn about sample size, enroll in the Google Data Analytics Certificate. The SMART methodology can be used to ask a question that promotes change. 1 / 1 point What type of SMART question leads to change? Results-focused Transformational Action-oriented Motivational (√) Correct A SMART question that promotes change is action-oriented. Which of the following inquiries are leading questions? Select all that apply. 0.75 / 1 point How did you learn about our company? (x) This should not be selected Leading questions include: How satisfied were you with our customer representative? In what ways did our product meet your needs? And what do you enjoy most about our service? Leading questions direct the respondent to a particular answer, often because they suggest the answer within the question. To learn about leading questions, enroll in the Google Data Analytics Certificate. In what ways did our product meet your needs? ⟨ ✓ ) Correct Leading questions include: How satisfied were you with our customer representative? In what ways did our product meet your needs? And what do you enjoy most about our service? Leading questions direct the respondent to a particular answer, often because they suggest the answer within the question. What do you enjoy most about our service?

\_

Correct
Leading questions include: How satisfied were you with our customer representative? In what ways did our product meet your needs? And what do you enjoy most about our service? Leading questions direct the respondent to a particular answer, often because they suggest the answer within the question.

How satisfied were you with our customer representative?

$\bigcirc$	Correct Leading questions include: How satisfied were you with our customer representative? In what ways did our product meet your needs? And what do you enjoy most about our service? Leading questions direct the respondent to a particular answer, often because they suggest the answer within the question.	
10. Wha	at are the key characteristics of a metric? Select all that apply.	0.75 / 1 point
<b>✓</b>	Metrics are unorganized collections of facts.	
$\otimes$	This should not be selected  Metrics are quantifiable data types used for measurement and performance evaluation. To learn about metrics, enroll in the Google Data Analytics  Certificate.	
<b>✓</b>	Metrics can be used to evaluate performance.	
$\odot$	Correct Metrics are quantifiable data types used for measurement and performance evaluation.	
<b>✓</b>	Metrics are quantifiable.	
$\odot$	Correct Metrics are quantifiable data types used for measurement and performance evaluation.	
<b>✓</b>	Metrics are used for measurement.	
$\bigcirc$	Correct Metrics are quantifiable data types used for measurement and performance evaluation.	
integrity	owing questions are designed to help you assess your comfort level with data and data cleaning. Use them to self-reflect and make your own decisions about ional knowledge you need to be successful in this course.	
	ch type of bias is the tendency to construe ambiguous situations in a positive or ative way?	1 / 1 point
0	Observer bias	
	Confirmation bias	
	Interpretation bias Cultural bias	
$\odot$	) Correct	

12. Before completing a survey, an individual acknowledges reading information about 1 / 1 point how and why the data they provide will be used. What concept does this describe? Privacy Transaction transparency Consent **Openness** This concept is called consent. Consent is the aspect of data ethics that presumes an individual's right to know how and why their personal data will be used before agreeing to provide it. 13. Which spreadsheet tool changes how cells appear when values meet a specific 1 / 1 point condition? Alternating colors Conditional formatting Data validation Protected ranges ⟨ ✓ ) Correct Conditional formatting is the spreadsheet tool that changes how cells appear when values meet a specific condition. 14. Fill in the blank: In a spreadsheet, the SPLIT function divides a text string around a 1 / 1 point , then puts each fragment into a new, separate cell.

Interpretation bias is the tendency to construe ambiguous situations in a positive

or negative way.

delimiter indicator substring mark

In a spreadsheet, the SPLIT function divides a text string around a delimiter, then puts each fragment into a new, separate cell.

The following questions are designed to help you assess your comfort level with programming languages. Use them to self-reflect and make your own decisions about the foundational knowledge you need to be successful in this course.

15.	Fill in the blank: A programming language is a system of words and symbols used to for computers.	1 / 1 point
	repair infrastructure	
	write instructions	
	detect malware	
	install hardware	
	O motam riardwars	
	<ul> <li>Correct         A programming language is a system of words and symbols used to write instructions for computers.     </li> </ul>	
16.	What are the main benefits of using a programming language to work with data? Select all that apply.  Clarify the steps of analysis	0.75 / 1 point
	orally and diope of analysis	
	Correct There are three main benefits of using a programming language to work with data: Easily reproduce and share work, save time, and clarify the steps of analysis.  Easily reproduce and share work	
	_	
	Correct There are three main benefits of using a programming language to work with data: Easily reproduce and share work, save time, and clarify the steps of analysis.	
	Save time	
	<ul> <li>Correct         There are three main benefits of using a programming language to work with data: Easily reproduce and share work, save time, and clarify the steps of analysis.     </li> </ul>	
	Automate decision-making	
	This should not be selected There are three main benefits of using a programming language to work with data: Easily reproduce and share work, save time, and clarify the steps of analysis. To learn about programming languages, enroll in the Google Data Analytics Certificate.	

17.	In order for code to work properly, it's necessary to follow the predetermined structure of the coding language. This includes all required words and symbols, as well as their proper placement. What is this structure called?	1 / 1 point
	Syntax	
	Standard	
	Script	
	Symbol	
	Correct In order for code to work properly, it's necessary to follow the syntax of the coding language. This includes all required words and symbols, as well as their proper placement.	
18.	What is the term for programming code that is freely available and may be modified and shared by the people who use it?	1 / 1 point
	Open-source	
	Common-design	
	One-access	
	Non-dependant	
	<ul> <li>Correct         Open-source code is freely available and may be modified and shared by the people who use it.     </li> </ul>	
19.	Data professionals use programming languages to enable which of the following? Select all that apply.  Data transformation	0 / 1 point
	<ul> <li>Correct         Data professionals use programming languages to enable data transformation, cleaning, and visualization.     </li> </ul>	
	Data cleaning	
	<ul> <li>Correct         Data professionals use programming languages to enable data transformation, cleaning, and visualization.     </li> </ul>	
	Data visualization	
	<ul> <li>Correct         Data professionals use programming languages to enable data transformation, cleaning, and visualization.     </li> </ul>	
	Data governance	

This should not be selected Data professionals use programming languages to enable data transformation, cleaning, and visualization. To learn about programming languages, enroll in the Google Data Analytics Certificate.	
The following questions are designed to help you assess your comfort level with data visualization, dashboards, and sharing insights with others. Use them to self-reflect and make your own decisions about the foundational knowledge you need to be successful in course.	this
20. What type of data visualization should be used to demonstrate how often data values fall into certain ranges?  Bar chart Histogram Correlation chart Tree map  Correct To demonstrate how often data values fall into certain ranges, use a histogram.	1 / 1 point
21. A dashboard is designed to share insights about the housing market in a city. What type of data visualization would be most effective at demonstrating how the city's annual home sales have risen over time?  Pie chart  Area chart  Scatter plot  Line chart  Correct  To demonstrate how the city's annual home sales have risen over time, a line chart would be most effective.	1 / 1 point
22. What type of visualizations enable the data in a presentation to automatically update and change over time?  Discrete Customized Dynamic Static	1 / 1 point

	Correct Dynamic visualizations enable the data in a presentation to automatically update and change over time.	
23.	Why is it more effective to label a data visualization instead of using a legend? Select all that apply.	0.75 / 1 point
	Labels allow for text explanations to be placed directly on the visualization.	
	Correct It is more effective to label a data visualization instead of using a legend for several reasons: Labels can be placed near the data, they make the data visualization more accessible, and they allow for text explanations to be placed directly on the visualization.	
	Labels help keep people's attention on relevant data by redirecting their focus away from outliers.	
	This should not be selected It is more effective to label a data visualization instead of using a legend for several reasons: Labels can be placed near the data, they make the data visualization more accessible, and they allow for text explanations to be placed directly on the visualization. To learn about data visualization best practices, enroll in the Google Data Analytics Certificate.	
	Labels can be placed near the data, whereas legends are typically positioned away from the data.	
	Correct It is more effective to label a data visualization instead of using a legend for several reasons: Labels can be placed near the data, they make the data visualization more accessible, and they allow for text explanations to be placed directly on the visualization.	
	Labels make the data visualization more accessible because they don't rely on the ability to interpret color.	
	Correct It is more effective to label a data visualization instead of using a legend for several reasons: Labels can be placed near the data, they make the data visualization more accessible, and they allow for text explanations to be placed directly on the visualization.	
24.	A data visualization reveals two variables in the data that rise and fall at the same time. When variables are related in this way, what is likely happening?	1 / 1 point
	Divergence  Correlation	
	Causation	
	Polarity	
	Correct	

When two variables in a visualization rise and fall at the same time, this is an example of correlation. Correlation is the measure of the degree to which two variables change in relationship to each other.

25. Which of the following are appropriate uses for filters in data visualization tools? Select all that apply.

0.75 / 1 point

- Providing data to different users based on their particular needs
  - Correct
    Filters can be used to highlight individual data points, limit the number of rows or columns in view, and provide data to different users based on their needs.
- Hiding outliers that do not support the hypothesis
  - This should not be selected Filters can be used to highlight individual data points, limit the number of rows or columns in view, and provide data to different users based on their needs. To learn about filtering in data visualizations, enroll in the Google Data Analytics Certificate.
- Highlighting individual data points
  - Correct
    Filters can be used to highlight individual data points, limit the number of rows or columns in view, and provide data to different users based on their needs.
- Limiting the number of rows or columns in view
  - Correct
    Filters can be used to highlight individual data points, limit the number of rows or columns in view, and provide data to different users based on their needs.