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?	1 / 1 point
	A field of study that uses data to create new ways of modeling and understanding the unknown A tool for organizing data elements and how they relate to one another The collection, transformation, and organization of data in order to draw conclusions, and drive informed decision-making A process used to solve complex problems in a user-centric way	
	Correct Data science is a field of study that uses data to create new ways of modeling and understanding the unknown.	
2.	What is the key difference between qualitative and quantitative data?	0 / 1 point
	 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 measures qualities and characteristics; quantitative data measures numerical facts. Qualitative data describes the kind of data being analyzed; quantitative data describes how much data is being analyzed. 	
	 ✓ Incorrect Qualitative data measures qualities and characteristics; quantitative data measures numerical facts. To learn about qualitative and quantitative data, enroll in the Google Data Analytics Certificate. 	
3.	Which of the following statements accurately describe wide and long data? Select all that apply.	0 / 1 point
	Long data subjects can have data in multiple columns.	
	 Wide data subjects can have multiple rows that hold the values of subject attributes. 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. □

	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.	/ 1 point
	Digital photo	
	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. 	
	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. 	
	Audio file	
5.	Fill in the blank: A Boolean data type can have possible values. 1 five three two infinite	/ 1 point
	Correct A Boolean data type can have two possible values.	
se	e following questions are designed to help you assess your comfort level with data strategy. Use the reflect and make your own decisions about the foundational knowledge you need to be successful arse.	
6.	What is the term for the individuals who have invested time and resources in a project and are interested in its outcome?	/ 1 point
	Stakeholders	
	Executives	
	Subject-matter experts	
	Project sponsors	

	Correct Stakeholders are individuals who have invested time and resources in a project and are interested in its outcome.	
7.	When collecting data for a study, what are some reasons to consider sample size? Select all that apply.	0.75 / 1 point
	To make sure a few unusual responses don't skew results	
	Correct Considering sample size ensures the data represents a diverse set of perspectives and helps avoid skewed results or inaccurate judgements.	
	To collect data that represents a diverse set of perspectives	
	 Correct Considering sample size ensures the data represents a diverse set of perspectives and helps avoid skewed results or inaccurate judgments. 	
	To include as many participants as possible in the study	
	 	
	To eliminate certain segments of a population	
8.	The SMART methodology can be used to ask a question that promotes change. What type of SMART question leads to change? Transformational	0 / 1 point
	Action-oriented	
	Results-focused	
	Motivational	
	 ✓ Incorrect A SMART question that promotes change is action-oriented. To learn about SMART questions, enroll in the Google Data Analytics Certificate. 	
9.	Which of the following inquiries are leading questions? Select all that apply.	0.5 / 1 point

How did you learn about our company?

 This should not be selected Leading questions include: How satisfied were you with our custome representative? In what ways did our product meet your needs? And you enjoy most about our service? Leading questions direct the resp particular answer, often because they suggest the answer within the To learn about leading questions, enroll in the Google Data Analytics Certificate. How satisfied were you with our customer representative? What do you enjoy most about our service? 	what do ondent to a question.
Correct Leading questions include: How satisfied were you with our custome representative? In what ways did our product meet your needs? And you enjoy most about our service? Leading questions direct the resp particular answer, often because they suggest the answer within the In what ways did our product meet your needs?	what do ondent to a
Correct Leading questions include: How satisfied were you with our custome representative? In what ways did our product meet your needs? And you enjoy most about our service? Leading questions direct the resp particular answer, often because they suggest the answer within the	what do ondent to a
 10. Which of the following data security tools can be used to ensure only spectan access, edit, and download a spreadsheet? Select all that apply. Tabs Sharing permissions 	ific people 1 / 1 point
 Correct Encryption and sharing permissions can be used to ensure only spectan access, edit, and download a spreadsheet. Filters Encryption 	cific people
 Correct Encryption and sharing permissions can be used to ensure only spectarn access, edit, and download a spreadsheet. 	cific people

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

11. Which type of bias is the tendency to construe ambiguous situations in a positive or negative way?	0 / 1 point
Observer bias	
Confirmation bias	
Cultural bias	
Interpretation bias	
 Incorrect Interpretation bias is the tendency to construe ambiguous situations in a positive or negative way. 	
To learn about types of bias, enroll in the Google Data Analytics Certificate. ☐	
12. Before completing a survey, an individual acknowledges reading information about how and why the data they provide will be used. What concept does this describe?	1 / 1 point
Consent	
Openness	
Transaction transparency	
Privacy	
Correct 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. A data analyst commits a SQL query to a repository as a new and improved query. Then, they specify the modifications they made during data cleaning and why they were made. What process does this scenario describe? Creating a changelog Data reporting Sharing results Data transferal 	1 / 1 point
Correct This scenario describes creating a changelog.	
14. Fill in the blank: To remove leading, trailing, and repeated spaces when cleaning data, use the function. TRIM	1 / 1 point
EXTRACT	
CLIP	

CLEAN	
 Correct To remove leading, trailing, and repeated spaces when cleaning data, use the TRIM function. 	
15. Which spreadsheet tool changes how cells appear when values meet a specific condition?Data validation	1 / 1 point
Conditional formattingAlternating colorsProtected ranges	
Correct Conditional formatting is the spreadsheet tool that changes how cells appear when values meet a specific condition.	
 16. Fill in the blank: In a spreadsheet, the SPLIT function divides a text string around a and puts each fragment into a new, separate cell. indicator delimiter mark substring 	1 / 1 point
Correct A delimiter is the specified character separating each item.	
The following questions are designed to help you assess your comfort level with spreadsheet and for data aggregation and analysis. Use them to self-reflect and make your own decisions about the foundational knowledge you need to be successful in this course.	
17. The date and time a photo was taken is an example of which kind of metadata?	0 / 1 point
Administrative Structural Representative Descriptive	

The date and time a photo was taken is an example of administrative metadata. To learn about metadata, enroll in the Google Data Analytics Certificate. ☐

18.	In spreadsheets, an absolute reference is used to lock a function array so that rows and columns don't change if the function is copied. What symbol is used to create an absolute reference?	1 / 1 point
	Asterisk (*) Dollar sign (\$) Ampersand (&) Hash (#)	
	Correct A dollar sign is used to create an absolute reference.	
19.	Which spreadsheet function vertically searches for a certain value in a column in order to return a corresponding piece of information?	1 / 1 point
	VIEW VALIDATE VLOOKUP VALUE	
	Correct VLOOKUP vertically searches for a certain value in a column in order to return a corresponding piece of information.	
20.	When creating a SQL query, which JOIN clause returns all matching records in two or more database tables?	1 / 1 point
	LEFT INNER OUTER RIGHT	
	 Correct The INNER JOIN clause returns all matching records in two or more database tables. 	

21.	In a SQL query, which calculation does the modulo (%) operator perform?	1 / 1 point
	It applies an exponent to a value. It returns the remainder of a division calculation. It converts a decimal to a percent. It finds the square root of a number.	
	Correct The modulo operator returns the remainder of a division calculation when included in a SQL query.	
Use	following questions are designed to help you assess your comfort level with programr them to self-reflect and make your own decisions about the foundational knowledge y essful in this course.	
	What are the main benefits of using a programming language to work with data? Select all that apply.	0.5 / 1 point
	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.	
	Clarify the steps of analysis Save time	
	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.	
	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. 	-2
23.	What goals are programming languages designed to achieve? Select all that apply.	0.5 / 1 point
	Data transformation	

✓ Da	ata governance	
	This should not be selected Programming languages are designed to achieve effective data transformation, cleaning, and visualization. To learn about programming languages, enroll in the Google Data Analytics Certificate.	
	ata visualization	
D:	ata cleaning	
\circ	Correct Programming languages are designed to achieve effective data transformation, cleaning, and visualization.	
	is the term for programming code that is freely available and may be modified hared by the people who use it?	1 / 1 point
O	pen-source	
	on-dependant	
	ommon-design	
0 0	ne-access	
\bigcirc	Correct Open-source code is freely available and may be modified and shared by the people who use it.	
dashboard	ing questions are designed to help you assess your comfort level with data visualization, ls, and sharing insights with others. Use them to self-reflect and make your own decisions ational knowledge you need to be successful in this course.	about
	monstrate how often data values fall into certain ranges, what type of data ization should be used?	1 / 1 point
O C	orrelation chart	
Ŏ Ba	ar chart	
● Hi	istogram	
	ree map	
	Correct To demonstrate how often data values fall into certain ranges, use a histogram.	

Programming languages are designed to achieve effective data transformation, cleaning, and visualization.

26.	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?	1 / 1 point
	Area chart	
	Pie 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.	
27.	What type of visualizations enable the data in a presentation to automatically update and change over time?	1 / 1 point
	→ Static	
	Customized	
	Dynamic	
	Discrete	
	O Biscicle	
	Correct Dynamic visualizations enable the data in a presentation to automatically update and change over time.	
28.	Why is it more effective to label a data visualization instead of using a legend? Select all that apply.	1 / 1 point
	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 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. 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.	
29.	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
	Causation Correlation Polarity Divergence	
	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.	
30.	Which of the following are appropriate uses for filters in data visualization tools? Select all that apply.	0.75 / 1 point
	Highlighting individual data points	
	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	
	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.	
	You didn't select all the correct answers	