In the data life cycle, which phase involves using data to solve problems, make good decisions, and support business goals?



Manage



Capture



Plan



Analyze

Question 1

Fill in the blank: During the \_\_\_\_\_ phase of the data life cycle, a business decides what kind of data it needs, how it will be managed, who will be responsible for it, and the optimal outcomes.

**1 / 1 point**



planning



archive



capture



manage

**Correct**

During the planning phase of the data life cycle, a business decides what kind of data it needs, how it will be managed, who will be responsible for it, and the optimal outcomes.

**2.**

Question 2

In the data life cycle, which phase involves gathering data from various sources and bringing it into the organization?

**1 / 1 point**



Capture



Manage



Analyze



Archive

**Correct**

The capture phase involves gathering data from various sources and bringing it into the organization.

**3.**

Question 3

A data analyst finishes using a dataset, so they erase or shred the files in order to protect private information. This is called archiving.

**1 / 1 point**



True



False

**Correct**

Erasing or shredding files describes the destroy phase of the data life cycle. Archiving involves storing files in a place where it's still available.

**4.**

Question 4

A dairy farmer decides to open an ice cream shop on her farm. After surveying the local community about people’s favorite flavors, she takes the data they provided and stores it in a secure hard drive so it can be maintained safely on her computer. This is part of which phase of the data life cycle?

**1 / 1 point**



Manage



Archive



Analyze



Plan

**Correct**

This is the manage phase of the data life cycle. It deals with how data is cared for, how and where it’s stored, the tools used to keep it safe and secure, and the actions taken to make sure it’s maintained properly.

**5.**

Question 5

After opening the ice cream shop on her farm, the same dairy farmer then surveys the local community about people’s favorite flavors. She uses the data she collected to determine that the top five flavors are strawberry, vanilla, chocolate, mint chip, and peanut butter. She feels confident in her decision to sell these flavors. This is part of which phase of the data life cycle?

**1 / 1 point**



Capture



Analyze



Plan



Archive

**Correct**

This is part of the analyze phase. This phase involves using data to make smart decisions and support business goals.

The data analysis process phases are ask, prepare, process, analyze, share, and act. What do data analysts do during the ask phase?

**1 / 1 point**



Define the problem to be solved



Create data visualizations



Collect and store data



Clean the data

**Correct**

During the ask phase, data analysts define the problem by looking at the current state and identifying how it’s different from the ideal state.

**2.**

Question 2

During the process phase of data analysis, a data analyst cleans data to ensure it’s complete and correct.

**1 / 1 point**



True



False

**Correct**

The process phase is all about getting the details right, so data analysts clean data by fixing typos, inconsistencies, and missing or inaccurate data.

**3.**

Question 3

During which phase of data analysis would a data analyst use spreadsheets or query languages to transform data in order to draw conclusions?

**1 / 1 point**



Analyze



Prepare



Act



Process

**Correct**

The analyze phase involves using data analytics tools such as spreadsheets and query languages to transform data in order to draw conclusions and make informed decisions.

**4.**

Question 4

In which data analysis phase would a data analyst use visuals such as charts or graphs to simplify complex data for better understanding?

**1 / 1 point**



Act



Prepare



Share



Process

**Correct**

The share phase involves how results are interpreted and shared with others, often through data visualization.

**5.**

Question 5

A data analyst shares insights from their analysis during a formal presentation to stakeholders. In a slideshow, they make a data-driven recommendation for how to solve a business problem. What phase of the data analysis process would come next?

**1 / 1 point**



Process



Prepare



Act



Ask

**Correct**

In this scenario, the data analyst has just shared insights. So, the next phase would be to act and put those insights to work in order to solve the business problem.

Fill in the blank: A query language is a computer programming language that enables data analysts to retrieve and manipulate data from a \_\_\_\_\_.



folder



drive



spreadsheet



database

Based on what you have learned in this course, spreadsheets are digital worksheets that enable data analysts to do which of the following tasks? Select all that apply.

**1 / 1 point**



Organize data in columns and rows

**Correct**

Spreadsheets enable data analysts to store, organize, sort, and filter data. This helps them see patterns, group information, and easily find the information they need.



Sort and filter data

**Correct**

Spreadsheets enable data analysts to store, organize, sort, and filter data. This helps them see patterns, group information, and easily find the information they need.



Store data

**Correct**

Spreadsheets enable data analysts to store, organize, sort, and filter data. This helps them see patterns, group information, and easily find the information they need.



Choose a topic for data analysis

**2.**

Question 2

Fill in the blank: A set of instructions that performs a specific calculation using spreadsheet data is called \_\_\_\_\_.

**1 / 1 point**



a program



an operation



a formula



a report

**Correct**

A set of instructions that performs a specific calculation using spreadsheet data is called a formula.

**3.**

Question 3

A database is a collection of data stored in a computer system.

**1 / 1 point**



True



False

**Correct**

A database is a collection of data stored in a computer system.

**4.**

Question 4

In data analytics, SQL is an acronym meaning \_\_\_\_\_ query language.

**1 / 1 point**



software



statistical



structured



syntax

**Correct**

SQL stands for structured query language. It enables data analysts to communicate with a database.

**5.**

Question 5

What is the term for the graphical representation of data?

**1 / 1 point**



Data language



Data summary



Data collection



Data visualization

**Correct**

Data visualization is the graphical representation of data.