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Module 1 challenge  
Graded Assignment • 40 min

 Due Nov 28, 11:59 PM PST

Your grade: 90%

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Your latest: 90% • Your highest: 90% • To pass you need at least 80%. We keep your highest score.

1. Fill in the blank: When solving the \_\_\_\_\_ problem type, a data analytics team at a health care provider analyzes patient data from the past five years. They then use this information to understand what led to certain symptoms and what is likely to cause them again.

1 point

- discovering connections
- identifying themes
- categorizing things
- finding patterns

 Incorrect

Review [the video about the six data problem types](#).

2. Which of the following statements correctly describe the SMART methodology? Select all that apply.

1 / 1 point

- SMART stands for specific, measurable, action-oriented, relevant, and time-bound.

 Correct

- Time-bound questions limit the amount of time analysts should work on a particular project.

- Relevant questions matter, are important, and have significance to the problem.

 Correct

- Specific questions are simple, significant, and focused on a single topic or a few closely related ideas.

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2. Which of the following statements correctly describe the SMART methodology? Select all that apply.

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Specific questions are simple, significant, and focused on a single topic or a few closely related ideas.

 Correct

3. A transportation and logistics provider aims to devise new delivery routes. They monitor traffic patterns and develop business intelligence about the busiest roads and intersections, then use an algorithm to determine optimal routes. Which data problem type does this scenario describe?

1 / 1 point

- Spotting something unusual
- Categorizing things
- Discovering connections
- Making predictions

 Correct

4. For what reasons would it be unfair for a supermarket to ask customers, "Why do you believe our products are the best on the market?" Select all that apply.

1 / 1 point

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4. For what reasons would it be unfair for a supermarket to ask customers, "Why do you believe our products are the best on the market?" Select all that apply.

1 / 1 point

It makes assumptions.

Correct

It is a leading question.

Correct

It is difficult to understand.

It is a closed-ended question.

5. Fill in the blank: When solving the \_\_\_\_\_ problem type, a junior data analyst identifies a technological breakthrough that is likely to disrupt their industry.

1 / 1 point

making predictions

spotting something unusual

discovering connections

identifying themes

Correct

6. A data professional sorts manufacturing production data by facility. Then, they group that information into broader concepts, such as the type of machine involved and materials used. Which data problem type does this scenario describe?

1 / 1 point

Finding patterns

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6. A data professional sorts manufacturing production data by facility. Then, they group that information into broader concepts, such as the type of machine involved and materials used. Which data problem type does this scenario describe?

1 / 1 point

- Finding patterns
- Discovering connections
- Making predictions
- Identifying themes

Correct

7. Which of the following questions are open-ended? Select all that apply.

1 / 1 point

- Is it difficult for you to speak in public?
- On a scale of 1-10 (with 10 being highest), how interested are you in current events?
- What are the three most important life lessons you have learned?

Correct

- How would you describe this book?

Correct

8. The supplier of a key component of a variety of products has a quality control issue. This causes problems for both the supplier and the manufacturing companies that use the component in their products. All of the affected businesses discuss the issues they face and share data openly, ultimately discovering they have many similar challenges. What data problem type are they solving?

1 / 1 point

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1 / 1 point

- Categorizing things
- Discovering connections
- Identifying themes
- Making predictions

Correct

9. Fill in the blank: The question, "How can we create a more innovative culture by empowering our employees to take risks?" is \_\_\_\_\_ because it encourages change.

1 / 1 point

- action-oriented
- relevant
- specific
- measurable

Correct

10. A data analytics team at a construction company wants to determine what types of materials are used in bridges that need frequent maintenance. They review bridge maintenance records and the construction materials used in each. Then, they group sturdier materials in one cluster and less sturdy materials in another. Which data problem type does this scenario describe?

1 / 1 point

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 Correct

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1 / 1 point

- action-oriented
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- specific
- measurable

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1 / 1 point

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 Correct