Weekly challenge 5

LATEST SUBMISSION GRADE

84.37%

1.
Question 1

A magazine wants to understand why its subscribers have been increasing. A data analyst could help answer that question with a report that predicts the result of a half-price sale on future subscription rates.

0 / 1 point

◉ True

○ False

2.
Question 2

A doctor's office has discovered that patients are waiting 20 minutes longer for their appointments than in past years. A data analyst could help solve this problem by analyzing how many doctors and nurses are on staff at a given time compared to the number of patients with appointments.

1 / 1 point

◉ True

○ False

Correct

Analyzing staffing and patient numbers would likely provide useful insights about why patients are waiting longer for their appointment times and to help solve this problem.

3.
Question 3

A problem is an obstacle to be solved, an issue is a topic to investigate, and a question is designed to discover information.

1 / 1 point

◉ True

○ False

Correct

A problem is an obstacle or complication to be solved, whereas a question is designed to discover information. These two things are the foundation of business tasks.

4.
Question 4
What is a question or problem that a data analyst answers for a business?

1 / 1 point

☐ Complaint

☐ Hypothesis

☑ Business task

Correct

A business task is a question or problem that a data analyst answers for a business.

☐ Mission statement

5.
Question 5
What is the process of using facts to guide business strategy?

1 / 1 point

◉ Data-driven decision-making

○

Data ethics

○

Data visualization

○

Data programming

Correct

Data-driven decision-making is using facts to guide business strategy.

6.
Question 6
It's possible for conclusions drawn from data analysis to be both true and unfair.

1 / 1 point
◉

True

○

False

Correct

Sometimes, a conclusion may be true, but it's unfair because it doesn't represent all groups or it ignores social context and other systemic factors.

7.
Question 7
A data analyst is analyzing fruit and vegetable sales at a grocery store. They're able to find data on everything except red onions. What's the best course of action?

1 / 1 point
○

Exclude all onion varieties from the analysis.

◉

Ask a teammate for help finding data on red onions.

○

Exclude red onions from the analysis.

◐

Use the data on white onions instead, as they're both onion varieties.

Correct

If a data analyst were to analyze all fruits and vegetables except for onions, the outcomes would not be fair because the data is not representative of all fruits and vegetables sold in grocery stores.

8.
Question 8

A gym wants to start offering exercise classes. A data analyst plans to survey 10 people to determine which classes would be most popular. To ensure the data collected is fair, what steps should they take? Select all that apply.

0.75 / 1 point
☑

Ensure participants represent a variety of profiles and backgrounds.

Correct

Ensuring participants represent a variety of profiles and backgrounds, collecting data anonymously, and surveying more than just 10 people would all help ensure the data analysis is fair.

☐

Increase the number of participants.

☑

Collect data anonymously.

Correct

Ensuring participants represent a variety of profiles and backgrounds, collecting data anonymously, and surveying more than just 10 people would all help ensure the data analysis is fair.

☐

Survey only people who don't currently go to the gym.