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Grade received 100%

To pass 80% or higher

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item

Weekly challenge 5

Latest Submission Grade 100%

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.

1 / 1 point

☐ True

☒ False



Correct

Predicting the effect of future sales will not answer the question of why there's been an increase in subscribers. This type of question requires historical data to provide useful insights.

2. Fill in the blank: A doctor's office has discovered that patients are waiting 20 minutes longer for their appointments than in past years. To help solve this problem, a data analyst could investigate how many nurses are on staff at a given time compared to the number of ____.

1 / 1 point

☒ patients with appointments

☐ negative comments about the wait times on social media

☐ doctors on staff at the same time

☐ doctors seeing new patients

☒ **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. Fill in the blank: A problem is an obstacle to be solved, an issue is a topic to investigate, and a _____ is designed to discover information.

1 / 1 point

☐ breakthrough

☐ business task

☒ question

☐ theme

☒ **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. What is a question or problem that a data analyst answers for a business?

1 / 1 point

☐ Mission statement

☐ Hypothesis

☒ Business task

☒ **Correct**

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

☐ Complaint

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

1 / 1 point

- ☐ Data ethics
- ☐ Data programming
- ☐ Data visualization
- ☒ Data-driven decision-making



Correct

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

6. Which of the following examples describe fairness in data analysis? Select all that apply.

1 / 1 point

☒ Considering systematic factors that may influence data



Correct

Considering systematic factors that may influence your data, factoring in social contexts that could create bias in your conclusions, and making sure your sample population represents all groups are effective ways to ensure that your analysis is fair and doesn't create or reinforce bias.

☒ Making sure a sample population represents all groups



Correct

Considering systematic factors that may influence your data, factoring in social contexts that could create bias in your conclusions, and making sure your sample population represents all groups are effective ways to ensure that your analysis is fair and doesn't create or reinforce bias.

☐ Picking and choosing which data to include from a dataset

☒ Factoring in social contexts that could create bias in conclusions

☒ **Correct**

Considering systematic factors that may influence your data, factoring in social contexts that could create bias in your conclusions, and making sure your sample population represents all groups are effective ways to ensure that your analysis is fair and doesn't create or reinforce bias.

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

- ☒ Ask a teammate for help finding data on red onions.
- ☐ Exclude all onion varieties from the analysis.
- ☐ Use the data on white onions instead, as they're both onion varieties.
- ☐ Exclude red onions from the analysis.

☒ **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. 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.

1 / 1 point

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

☒ 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.



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.