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1. Fill in the blank: Hypothesis testing is a way to see if a survey or experiment has _____ results.

1 / 1 point

☒ meaningful

Hypothesis testing is a way to see if a survey or experiment has meaningful results.

☐ insufficient

☐ random

☐ probable

2. A research team conducts an experiment to determine if a new cybersecurity tool is more effective than the previous version. What type of results are required for the experiment to be statistically significant?

1 / 1 point

☐ Results that are inaccurate and should be ignored

☐ Results that are hypothetical and in need of more testing

☒ Results that are real and not caused by random chance

In order for an experiment to be statistically significant, the results should be real and not caused by random chance.

☐ Results that are unlikely to occur again

3. In order to have a high confidence level in a customer survey, what should the sample size accurately reflect?

1 / 1 point

☐ Results that are unlikely to occur again

3. In order to have a high confidence level in a customer survey, what should the sample size accurately reflect?

1 / 1 point

- ☐ The predictions of stakeholders
- ☐ The most valuable members of the population
- ☐ The trends from previous customer surveys
- ☒ The entire population

In order to have a high confidence level in a customer survey, the sample size should accurately reflect the entire population.

4. Fill in the blank: Typically, a data professional aims to achieve a statistical power of at least _____ to consider their results statistically significant.

1 / 1 point

☒ 0.8, or 80%

Typically, a data professional aims to achieve a statistical power of at least 0.8, or 80% to consider their results statistically significant.

- ☐ 0.1, or 10%
- ☐ 1, or 100%
- ☐ 0.6, or 60%

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