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1. A community college wants to improve student engagement with their new class schedule. They send a text alert to all students with a link to the same webpage. But half of the students get a text with information about the professors, and half get a text with information about newly available class times. What does this scenario describe?

1 / 1 point

- ☒ A/B testing
☐ Time series analysis
☐ Regression analysis
☐ Hypothesis testing

✔ Correct

2. Which of the following statements correctly describe key elements of inferential statistics? Select all that apply.

1 / 1 point

- ☐ Inferential statistics is the process of selecting a subset of data from a population.
☒ Sampling is the process of selecting a subset of data from a population.

✔ Correct

- ☒ Before conducting a test, data professionals choose the sample size.

✔ Correct

- ☒ A population includes every possible element to be measured.

✔ Correct

3. A data team at a landscaping company investigates the most weather-resistant tree species in Canada. Their dataset contains more than 1 million rows of data about different trees. The data team creates a table to better understand what the data reveals. What does this scenario describe?

1 / 1 point

- ☒ Descriptive statistics
☐ Confidence intervals
☐ Statistical significance
☐ Inferential statistics

✔ Correct

4. Fill in the blank: A _____ is a characteristic of a sample.

0 / 1 point

- ☒ measure
☐ statistic
☐ parameter
☐ range

✘ Incorrect

Review [the video about descriptive versus inferential statistics.](#)

5. A data analytics team collects responses from a customer satisfaction survey that asked customers to rate their experience from 1 to 10. The analytics team arranges the values in the dataset from worst (1) to best (10). Then, they identify the middle value. What descriptive statistic are they using?

1 / 1 point

- ☒ Median
☐ Mode
☐ Mean
☐ Minimum

✔ Correct

6. A data professional works with the following dataset: 2, 2, 4, 7, 10. What is the mean of the dataset?

1 / 1 point

- ☐ 10
- ☐ 2
- ☐ 4
- ☒ 5

✓ Correct

7. What concept best describes the standard deviation, variance, and range?

1 / 1 point

- ☒ Measures of dispersion
- ☐ Measures of frequency
- ☐ Measures of central tendency
- ☐ Measures of position

✓ Correct

8. A data professional is analyzing tomato growth data. Their dataset includes the circumference of tomatoes in millimeters: 40, 49, 50, 52, 66.3, 77.5, 78, 80. What is the range of their dataset?

1 / 1 point

- ☐ 51
- ☐ 500.3
- ☐ 62.5
- ☒ 40

✓ Correct

9. A data professional is analyzing data about annual work income in dollars. They divide the data into quartiles: Q1 = \$40,000, Q2 = \$55,000, Q3 = \$70,000. What value is the 50th percentile of their dataset?

1 / 1 point

- ☒ \$55,000
- ☐ \$40,000
- ☐ \$70,000
- ☐ \$30,000

✓ Correct

10. If you apply the `describe()` function to numerical data, the results will include which of the following descriptive statistics? Select all that apply.

1 / 1 point

☒ Median

✓ Correct

☒ Standard deviation

✓ Correct

☐ Range

☒ Mean

✓ Correct