

Congratulations! You passed!
Grade received 97.50%
Latest Submission Grade 97.50%
To pass 80% or higher
Go to next item

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
☐ Regression analysis
☐ Hypothesis testing
☐ Time series analysis

☒ Correct

2. Which of the following statements correctly describe key elements of inferential statistics? Select all that apply. 1 / 1 point

☒ Data professionals use inferential statistics to predict behaviors.

☒ Correct

☐ Sample size has minimal impact on the validity of test results.

☒ A statistical population may refer to people, objects, or events.

☒ Correct

☒ A sample is a subset of the larger population.

☒ Correct

3. 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

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

☒ Correct

4. A data professional is analyzing data about the employees of a corporation. They want to compute the average age of all employees in the dataset. What Python functions can they use? Select all that apply. 0.75 / 1 point

- ☐ `max()`
☒ `mean()`

✓ Correct

- ☐ `describe()`
☐ `std()`

You didn't select all the correct answers

5. A data team at a high-tech manufacturer wants to better understand customer purchases of webcams over the past five years. Their dataset contains about 3.5 million rows of data about different customers and webcam products. The data team uses summary statistics to better understand the data. What does this scenario describe? 1 / 1 point

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

✓ Correct

6. Fill in the blank: A _____ is a characteristic of a population. 1 / 1 point

- ☐ range
☒ parameter
☐ measure
☐ sample

✓ Correct

7. 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
☐ Minimum
☐ Mean

☐ Mode

☒ Correct

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

1 / 1 point

- ☐ 4
- ☐ 2
- ☒ 5
- ☐ 10

☒ Correct

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

1 / 1 point

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

☒ Correct

10. A data professional is analyzing wind speed data. Their dataset includes daily speeds in miles per hour over six months: 1, 8, 9, 14, 22, 28, 35, 46, 55, 60, 71. What is the range of their dataset?

1 / 1 point

- ☒ 70
- ☐ 28
- ☐ 349
- ☐ 31.7

☒ Correct