



## Congratulations! You passed!

Grade received 95%

O Mode

Latest Submission Grade 95% **To pass** 80% or higher

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1.	A grocery delivery business wants to improve customer response rates for their company's monthly postcard mailer. They send a postcard with the same information to all customers. But half of the customers get a headline about faster delivery speeds, and half get a headline about more delivery drivers available in their area. What does this scenario describe?					
	O Regression analysis					
	A/B testing					
	O Hypothesis testing					
	O Time series analysis					
	<b>⊘</b> Correct					
2.	Which of the following statements correctly describe key elements of inferential statistics? Select all that apply.	1/1 point				
	A population includes every possible element to be measured					
	✓ A population includes every possible element to be measured.					
	<b>⊘</b> Correct					
	Before conducting a test, data professionals choose the sample size.					
	○ Correct					
	Sampling is the process of selecting a subset of data from a population.					
	<b>⊘</b> Correct					
	☐ Inferential statistics is the process of selecting a subset of data from a population.					
3.	A data professional working for a water conservancy researches household water usage in a large city. Their dataset contains about 800,000 rows of data capturing how much water each household uses in a month. The data professional creates visualizations to quickly understand the data and create a summary for stakeholders. What does this scenario describe?	1/1 point				
	O Inferential statistics					
	O Confidence intervals					
	O Statistical significance					
	Descriptive statistics					
	⊙ Correct					
4.	Fill in the blank: A is a characteristic of a sample.	1/1 point				
	statistic					
	O measure					
	O range					
	Oparameter					
	<b>⊘</b> Correct					
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				
	○ Mean					

	O Minimum	
	Median	
	<b>⊘</b> 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
	<ul><li>○ 2</li><li>○ 10</li></ul>	
	O 4	
	<b>⊘</b> Correct	
7.	What do measures of dispersion, such as range and standard deviation, help a data professional understand about their data?	1/1 point
	Spread	
	Maximum value	
	Center	
	Minimum value	
	<b>⊘</b> 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
	O 500.3	
	O 62.5	
	O 51	
	<b>(a)</b> 40	
	<b>⊘</b> 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 is the interquartile range, or IQR, of their dataset?	1/1 point
	O \$55,000	
	O \$40,000	
	\$30,000	
	O \$15,000	
	<b>⊘</b> Correct	
10	If you apply the <b>describe</b> () function to numerical data, the results will include which of the following descriptive statistics? Select all that apply.	0.5 / 1 point
	☐ Median	
	<b>✓</b> Range	
	★ This should not be selected Review the video about using Python to compute descriptive statistics.	
	<b>▼</b> Mean	
	<b>⊘</b> Correct	
	Standard deviation	
	<b>⊘</b> Correct	