

▲ Try again once you are ready

Grade received 71.87%

Latest Submission Grade 71.88% To pass 80% or higher

Try again

1.	Which of the following statements accurately describe a point estimate? Select all that apply.	0.75 / 1 point
	✓ A point estimate estimates a sample statistic.	
	★ This should not be selected Review the video that introduces confidence intervals.	
	✓ A point estimate estimates a population parameter.	
	⊘ Correct	
	☐ A point estimate uses a range of values.	
	✓ A point estimate uses a single value.	
2.	A data professional working for a theme park is estimating the mean time visitors spend in the park. They construct the following 95% confidence interval based on a sample mean of 3.5 hours: [2.5, 4.5]. What is the margin of error? +/- 4.5 hours +/- 2.5 hours +/- 1 hour	1/1 point
	O +/- 2 hours	
	⊘ Correct	
3.	A data professional working for a moving company is estimating the average time it takes to complete a move. Based on a sample mean of 3 hours, they construct the following 95% confidence interval: [2.5 , 3.5]. What does 95% refer to?	0/1 point
	O The percentage of data values in the dataset	
	O The margin of error	
	The percentage of all possible sample means that fall within the range of the interval The purposes rate of the estimation process.	
	The success rate of the estimation process	
	(X) Incorrect Review the video about interpreting confidence intervals. L ²	
4.	According to the four steps that detail how to construct a confidence interval for a proportion, which of the following activities are involved in this process? Select all that apply.	1/1 point
	Plot a histogram	
	✓ Choose a confidence level	
	Calculate the interval	
	⊘ Correct	
	Find the margin of error	
	⊘ Correct	
5.	A data analytics team at a book publisher researches the most popular book subject matter based on sample data. They construct a 95% confidence interval using a sample size of 250. They also construct a 95% confidence interval using a sample size of 5,000. What happens as the sample size increases?	0 / 1 point
	The population parameter gets larger.	

	The confidence interval gets widel. The margin of error decreases.	
	The margin of error increases. The margin of error increases.	
	⊗ Incorrect Review the video about constructing a confidence interval. [△]	
6.	In the context of constructing a confidence interval of a population mean, what does the loc argument of the scipy.stats.norm.interval() function refer to?	1 / 1 point
	Sample mean	
	Confidence level	
	Sample standard error	
	O Interquartile range	
	○ Correct	
7.	Fill in the blank: For small sample sizes, data professionals use the to make calculations with the data.	1/1 point
	O s-distribution	
	O z-distribution	
	O normal distribution	
	• t-distribution	
8.	Which of the following statements accurately describe the graph of the t-distribution? Select all that apply.	1/1 point
	As the sample size decreases, the t-distribution approaches the normal distribution.	
	As the sample size increases, the t-distribution approaches the normal distribution.	
	⊘ Correct	
	It has larger tails than the standard normal distribution.	
	☐ It has smaller tails than the standard normal distribution.	