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1.	What would a data professional use to estimate a population parameter using a range of values?	1 / 1 point
	Interval estimate	
	Point estimate	
	Z-score	
	Sampling frame	
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?	1 / 1 point
	+/- 2.5 hours	
	+/- 1 hour	
	+/- 4.5 hours	
	+/- 2 hours	
3.	A data professional working for a food delivery company is estimating the average time it takes to complete a delivery. Based on a sample mean of 20 minutes, they construct the following 95% confidence interval: [17.5, 22.5]. What does 95% refer to?	0 / 1 point
	The success rate of the estimation process	
	The margin of error	
	The percentage of all possible sample means that fall within the range of the	
	interval The percentage of data values in the dataset	

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
	Choose a confidence level	
	Plot a histogram	
	Calculate the interval	
	Find the margin of error	
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?	1 / 1 point
	The margin of error increases.	
	The confidence interval gets wider.	
	The margin of error decreases.	
	The population parameter gets larger.	
6.	A data professional is using scipy.stats.norm.interval() in Python to construct a confidence interval. Which of the following pieces of code can they use to choose a confidence level of 99%?	1 / 1 point
	alpha = 0.99	
	loc = 0.99	
	std = 0.99	
	Scale = 0.99	
7.	Fill in the blank: Data professionals use the when working with a small sample size and data that is approximately normally distributed.	1 / 1 point
	• t-distribution	

	normal distribution	
	s-distribution	
	z-distribution	
8.	What shape is the graph of the t-distribution?	1 / 1 point
	Rectangular shape	
	Circular shape	
	Bell shape	
	Square shape	