



Congratulations! You passed!

Grade Latest Submission received 100% Grade 100%

To pass 80% or higher

Go to next item

1.	Fill in the blank: A sample accurately reflects the characteristics of a population.	1/1 point
	Ononrepresentative	
	O very small	
	representative	
	O biased	
	⊘ Correct	
2.	Fill in the blank: In statistics, refers to the number of individuals or items chosen for a study or experiment.	1/1 point
	o sampling frame	
	O sampling method	
	sample size	
	O target population	
	⊙ Correct	
3.	Which of the following statements accurately describes the relationship between probability sampling and non-probability sampling?	1/1 point
	O Probability sampling is typically less expensive than non-probability sampling.	
	O Probability sampling is typically more convenient than non-probability sampling.	
	O Probability sampling is more biased than non-probability sampling.	
	Probability sampling gives data professionals a better chance of generating a representative sample than non-probability sampling.	
	⊙ Correct	
4.	Which sampling method involves dividing a population into groups and randomly selecting some members from each group for the sample?	1/1 point
	Stratified random sampling	
	○ Cluster random sampling	
	○ Systematic random sampling	
	○ Simple random sampling	
	⊙ Correct	
5.	Which sampling method involves choosing members of a population who are easy to contact or reach?	1/1 point
	○ Snowball sampling	
	O Purposive sampling	
	O Voluntary response sampling	
	Convenience sampling	
	⊘ Correct	

	The lower the standard error, the more precise the sample mean is.	
	⊘ Correct	
	A larger standard error indicates that, in repeated sampling, the sample means are more spread out.	
	⊘ Correct	
	The standard error of the mean measures variability among the sample means obtained in repeated sampling.	
	⊘ Correct	
	☐ The higher the standard error, the more precise the sample mean is.	
7.	What does the central limit theorem state?	1/1 point
	 The sampling distribution of the mean approaches a binomial distribution as the sample size increases. The sampling distribution of the mean approaches a normal distribution as the sample size increases. The sampling distribution of the mean approaches a Bernoulli distribution as the sample size increases. The sampling distribution of the mean approaches a Poisson distribution as the sample size increases. Correct 	
8.	A data professional is working with data about annual household income. They want to use Python to simulate taking a random sample of income values from the dataset. They write the following code: sample (n=100, replace=True, random_state=230). What is the sample size of the random sample? 10 230 23 100 Correct	1/1 point