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1.	Fill in the blank: A sample accurately reflects the characteristics of a population.	1 / 1 point
	nonrepresentative	
	representative	
	very small	
	biased	
2.	Which of the following activities are stages in the typical sampling process? Select all that apply.	1 / 1 point
	Make a point estimate of a population parameter	
	Identify the target population	
	Select the sampling frame	
	Perform exploratory data analysis	
3.	Which of the following statements accurately describe probability sampling? Select all that apply.	0.75 / 1 point
	Probability sampling uses random selection.	
	_	
	Probability sampling can result in representative samples.	
	Probability sampling is typically inexpensive, convenient, and quick.	

	Probability sampling is based on the personal preferences of the researcher.	
4.	A data professional is conducting an employee satisfaction survey. First, they list all the employees alphabetically by first name. Then, they randomly choose a starting point on the list and pick every third name to be in the sample. What sampling method are they using?	1 / 1 point
	Simple random sampling	
	Stratified random sampling	
	Systematic random sampling	
	Cluster random sampling	
5.	Which sampling method involves choosing members of a population who are easy to contact or reach?	1 / 1 point
	Voluntary response sampling	
	Convenience sampling	
	Purposive sampling	
	Snowball sampling	
6.	Which of the following statements accurately describe a sampling distribution? Select all that apply.	1 / 1 point
	The distribution of a sample mean and the distribution of a sample proportion are examples of sampling distributions.	
	A sampling distribution is a probability distribution of a population parameter.	
	A sampling distribution can be visualized with a histogram.	
	A sampling distribution represents the probability distribution of a statistic under random sampling.	

7.	What concept states that the sampling distribution of the mean approaches a normal distribution as the sample size increases?	1 / 1 point
	Standard error	
	Sampling frame	
	Central limit theorem	
	Bayes' theorem	
	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 random seed?	1 / 1 point
	O 23	
	O 10	
	230	
	O 100	
	O Comment	