

## Congratulations! You passed!

Grade Latest Submission received 96.87% Grade 96.88%

To pass 80% or higher

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1.	Which of the following statements accurately describe a representative sample? Select all that apply.	1/1 point
	A representative sample helps data professionals make reliable inferences based on sample data.	
	<b>⊘</b> Correct	
	A representative sample reflects the characteristics of the overall population.	
	<b>⊘</b> Correct	
	☐ A representative sample represents some groups in the population but not others.	
	A representative sample suffers from sampling bias.	
2.	Which of the following activities are stages in the typical sampling process? Select all that apply.	0.75 / 1 point
	Make a point estimate of a population parameter	
	★ This should not be selected     Review the video about the sampling process      ☐.	
	✓ Identify the target population	
	<b>⊘</b> Correct	
	✓ Select the sampling frame	
	<b>⊘</b> Correct	
	Perform exploratory data analysis	
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 more convenient than non-probability sampling.	
	<ul> <li>Probability sampling gives data professionals a better chance of generating a representative sample than non-probability sampling.</li> </ul>	
	Probability sampling is more biased than non-probability sampling.	
	O Probability sampling is typically less expensive than non-probability sampling.	
	<b>⊘</b> 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
	O Systematic random sampling	
	O Cluster random sampling	
	Stratified 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
	O Voluntary response sampling	
	O Snowball sampling	
	Convenience sampling	
	O Purposive sampling	

<b>6.</b> Fill in the blank: Standard error measures the of a sampling distribution.	1/1 point
O mode	
O mean	
standard deviation	
O median	
<b>⊘</b> Correct	
7. What does the central limit theorem state?	1/1 point
O The sampling distribution of the mean approaches a binomial distribution as the sample size incre	ases.
O The sampling distribution of the mean approaches a Bernoulli distribution as the sample size incre	ases.
The sampling distribution of the mean approaches a normal distribution as the sample size increas	ies.
O The sampling distribution of the mean approaches a Poisson distribution as the sample size increa	ses.
<b>⊘</b> Correct	
<ol> <li>A data professional is working with data about annual household income. They want to use Python to s taking a random sample of income values from the dataset. They write the following code: sample (n= replace=True, random_state=230). What does the argument replace=True refer to?</li> </ol>	-, -, -,
Replacing decimal values with whole numbers	
Sampling with replacement	
○ Sampling without replacement	
Replacing whole numbers with decimal values	
<b>⊘</b> Correct	