## Guideline Quizzes for Module 12

Que	stion 1	1 point
What	is the goal of bootstrapping in statistics?	
Choose at least one correct answer		
A	To replicate a study	
B	To generate new data	
©	To estimate the sampling distribution of a statistic	Correct answer
D	To calculate the mean of a dataset	
Ques	stion 2	1 point
Which	method is most commonly used in bootstrapping to estimate confidence intervals?	
Choos	se at least one correct answer	
A	Z-Score Method	
B	Percentile Method	Correct answer
©	T-Test	
D	Chi-Square Test	
Ques	stion 3	1 point
How is	s bootstrapping performed?	
Choos	se at least one correct answer	
A	Repeatedly sampling with replacement from a single dataset	Correct answer
B	Collecting new samples from different populations	

©	Increasing the sample size manually		
D	Using a theoretical distribution for calculations		
Ques	stion 4	1 point	
What	does each bootstrap sample consist of?		
Choose at least one correct answer			
A	A new dataset		
B	Random samples drawn with replacement from the original sample	Correct answer	
©	A summary statistic		
Ques	stion 5	1 point	
How c	loes bootstrapping differ from traditional parametric methods?		
Choose at least one correct answer			
A	It requires fewer assumptions about the data	Correct answer	
B	It always produces more accurate results		
<b>©</b>	It does not involve resampling		
D	It is used only for large datasets		
Ques	stion 6	1 point	
What	is the primary assumption of bootstrapping?		
Choose at least one correct answer			
A	The sample size must be larger than 100		
B	The data are normally distributed		
©	The original sample is representative of the population	Correct answer	

Bootstrapping is particularly useful when:

## Choose at least one correct answer

A Data is normally distributed

B The theoretical distribution of the statistic is unknown

Correct answer

C The sample size is large

(D) The data is parametric