## Guideline Quizzes for Module 5

Question 1	1 point
What is a population?	
Choose at least one correct answer	
A The entire group of individuals or objects being studied	Correct answer
B A small group of individuals selected for study	
C A random selection of individuals from a larger group	
D A subset of a larger group used for analysis	
Question 2	1 point
What is the primary purpose of sampling in statistics?	
Choose at least one correct answer	
A To collect as much data as possible	
B To make generalizations about a population	Correct answer
C To avoid bias in research	
D To study every individual in a population	
Question 3	1 point
A sample is always smaller than a population.	
A True	Correct answer
B False	

Question 4	1 point
Sampling is necessary when studying large populations.	
A True	Correct answer
B False	
Question 5	1 point
What is statistical uncertainty?	
Choose at least one correct answer	
A The error in a measurement	
B The bias in a sample	
The inability to predict the exact outcome of an event	Correct answer
① The variability in data	
Question 6	1 point
How can uncertainty be reduced in statistical studies?	
Choose at least one correct answer	
A By increasing the sample size	Correct answer
B By using biased sampling methods	
© By ignoring outliers in the data	
By making assumptions about the population	
Question 7	1 point
Which of the following is a source of uncertainty in statistical inference?	
Choose at least one correct answer	

A Measurement error

B Random variation	
© Sampling error	Correct answer
All of the above	
Question 8	1 point
Uncertainty can be completely eliminated in	statistical studies.
A True	
B False	Correct answer
Question 9	1 point
Larger sample sizes can lead to lower uncert	cainty.
A True	Correct answer
B False	
Question 10	1 point
Match the following terms with their definition	ons
Prompt	Answer
1 Population	The entire group of individuals or objects being studied
	Partial: 20% Negative: 0%
2 Sample	A subset of a population used to represent the whole
	Partial: 20% Negative: 0%
3 Sampling	The process of selecting a subset of a population to study
	Partial: 20% Negative: 0%
4 Uncertainty	The inability to predict the exact outcome of an event

Partial: 20% Negative: 0%



5 Statistical Inference

The process of drawing conclusions about a population based on a sample

Partial: 20% Negative: 0%