C The mean of the data

Guideline Quizzes for Module 9

Question 1	1 point
What is the probability of randomly selecting a mouse that weighs between 32 and 34 g distribution with a mean of 32 grams and standard deviation of 2.5 grams?	grams from a
Choose at least one correct answer	
A 0.29	
B 0.95	
© 0.12	
D 0.68	Correct answer
Question 2	1 point
Which of the following statements is true about probability and likelihood?	
Choose at least one correct answer	
A Probability and likelihood are the same thing.	
B Probability is the area under the curve of a distribution, while likelihood is the height of the curve at a specific point.	Correct answer
Question 3	1 point
What is the maximum likelihood estimate (MLE) of the mean of a distribution, given a s	et of data?
Choose at least one correct answer	
A The median of the data	
B The mode of the data	

Correct answer

(D)	The standard deviation of the data	
Que	stion 4	1 point
	n of the following is an example of a situation where the MLE is not a good estimate of neter?	the true
Choos	se at least one correct answer	
A	When the sample size is small	
B	When the data is not normally distributed	
©	When there are outliers in the data	
D	All of the above	Correct answer
Que	stion 5	1 point
Which	of the following is an advantage of using the MLE?	
Choos	se at least one correct answer	
A	It is always unbiased.	
B	It is easy to calculate.	Correct answer
©	It is always consistent.	
D	It is always efficient.	
Que	stion 6	1 point
	bility is a measure of how likely something is to happen, while likelihood is a measure observe a certain measurement.	of how likely it
A	True	Correct answer

B False

Question 7	1 point
The MLE of the mean is always equal to the mean of the data.	
A True	
B False	Correct answer
Question 8	1 point
Probability is always between 0 and 1, while likelihood can be any real number.	
A True	Correct answer
B False	
Question 9	1 point
The MLE of the standard deviation is always equal to the standard deviation of the data.	
A True	
B False	Correct answer