3/24/2015 Coursera

Feedback — Quiz: Week One

Help Center

You submitted this quiz on **Mon 23 Mar 2015 8:53 PM PDT**. You got a score of **6.00** out of **6.00**.

Question 1

What is the sum of the deviations about the mean?

Your Answer		Score	Explanation
0 1			
O -1			
0	~	1.00	Great job. It is always true that the sum of the deviations below the mean will always equal the sum of the deviations above the mean, summing to 0.
-5			
5			
Total		1.00 / 1.00	

Question 2

Which expression below will give you an unbiased estimate of the population variance?

Your Answer		Score	Explanation
\bigcirc $\sum_{i=1}^n x_i^2$			
n			
$ \bullet \frac{\sum_{i=1}^{n} (x_i - \bar{x})^2}{n-1} $	✓	1.00	Great job.
$\bigcirc \ \underline{\sum_{i=1}^n (x_i - ar{x})^2}$			
n			

$$\bigcirc \ \frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n-2}$$

Total 1.00 / 1.00

Question 3

What theorem tells us that shape is the sampling distribution of the sample mean will be normal?

Your Answer	Score	Explanation
BayesTheorem		
CentralLimitTheorem	✓ 1.00	Great job. The Central Limit Theorem states that the distribution of a large number of independent and identically distributed variables will be approximately normal.
Burke's Theorem		
None of the above		
Total	1.00 / 1.00	

Question 4

Is the following interpretation of a confidence interval True or False?

Upon repeated sampling, 95% of intervals constructed in the same way will contain the true population parameter.

Your Answer		Score	Explanation	
True	~	1.00		
False				

3/24/2015 Coursera

Total 1.00 / 1.00

Question 5

Big p-values (p>.05) conclude which one of the following?

Your Answer	Scor	e Explanation
Accept the null hypothesis		
Fail to reject the null hypothesis	✓ 1.00	Good job! It is incorrect to 'accept' the null hypothesis. Statisticians will always use 'fail to reject the null hypothesis'
Reject the null hypothesis		
None of the above		
Total	1.00 1.00	l e e e e e e e e e e e e e e e e e e e

Question 6

What does a positive slope indicate?

Your Answer		Score	Explanation
As X increases, Y increases	~	1.00	Great job! A positive slope always indicates that Y is increasing with X. If Y were to decrease with increases in X, this would indicate a negative slope.
O No			
association			
between X and			
Υ			
○ As X			
increases, Y			
decreases			

3/24/2015 Coursera

Total	1.00 /		
	1.00		