Feedback — Unit 3 Lab 3B - Foundations for inference: Confidence levels

Help

You submitted this homework on **Sun 16 Mar 2014 11:55 AM PDT**. You got a score of **6.00** out of **6.00**.

INSTRUCTIONS: Read these first before you get started.

Lab instructions can be found in this document.
(You may also find the document at this address:
https://d396qusza40orc.cloudfront.net/statistics%2FDocuments%2FLabs%2FLab_Unit3_Lab3B.pdf.)

As you go through the contents of the lab instructions document you will encounter multiple choice questions, make sure to submit your answers to those questions here to get credit.

You may attempt this lab as many times as you like (well, Coursera limits number of attempts at 100, but chances are you won't need that many!).

Notes:

- To complete the lab in RStudio, you will first need to make sure that you have **both** R and RStudio installed. You can download R at http://cran.r-project.org, and RStudio at http://www.rstudio.com/. See this video for step-by-step installation instructions if needed).
- If you prefer to complete the exercises in the interactive web-based DataCamp environment, click here.

Question 1

My distribution should be similar to others' distributions who also collect random samples from this population, but it is likely not exactly the same since it's a random sample.

Your Answer		Score	Explanation
True	✔	1.00	
False			
Total		1.00 / 1.00	

Question 2

For the confidence interval to be valid, the sample mean must be normally distributed and have standard error $\frac{s}{\sqrt{n}}$. Which of the following is **not** a condition needed for this to be true?

Your Answer		Score	Explanation
The sample is random.			
The sample size, 60, is less than 10% of all houses.			
The sample distribution must be nearly normal.	✔	1.00	
Total		1.00 / 1.00	

Question 3

What does “95% confidence” mean?

Your Answer		Score	Explanation
95% of the time the true average area of houses in Ames, Iowa, will be in this interval.			
95% of random samples of size 60 will yield confidence intervals that contain the true average area of houses in Ames, Iowa.	✔	1.00	
95% of the houses in Ames have an area in this interval.			
95% confident that the sample mean is in this interval.			
Total		1.00 / 1.00	

Question 4

What proportion of 95% confidence intervals would you expect to capture the true population mean?

Your Answer	Score	Explanation

1%		
5%		
90%		
95%	✔	1.00
Total		1.00 / 1.00

Question 5

What is the appropriate critical value for a 99% confidence level?

Your Answer		Score	Explanation
0.01			
0.99			
1.96			
2.33			
2.58	✔	1.00	
Total		1.00 / 1.00	

Question 6

We would expect 99% of the intervals to contain the true population mean.

Your Answer		Score	Explanation
True	✔	1.00	
False			
Total		1.00 / 1.00	

Question 7

The following questions are not graded, but your feedback is very much appreciated and immensely useful for the development of the course.

This lab covered material that is covered in the class.

Your Answer	Score	Explanation
○ Strongly Disagree		
○ Disagree		
○ Neutral		
○ Agree		
○ Strongly Agree		
Total	0.00 / 0.00	

Question 8

The lab improved my understanding of these topics.

Your Answer	Score	Explanation
○ Strongly Disagree		
○ Disagree		
○ Neutral		
○ Agree		
○ Strongly Agree		
Total	0.00 / 0.00	

Question 9

The instructions were clear and it was easy to understand what was wanted.

Your Answer	Score	Explanation
○ Strongly Disagree		
○ Disagree		
○ Neutral		
○ Agree		
○ Strongly Agree		
Total	0.00 / 0.00	

Question 10

The data were relevant and interesting to me.

Your Answer	Score	Explanation
○ Strongly Disagree		
○ Disagree		
○ Neutral		
○ Agree		
○ Strongly Agree		
Total	0.00 / 0.00	

Question 11

The length of time took to complete lab.

Your Answer	Score	Explanation
○ Less than 30 minutes		
○ More than 2 hours		
○ Between 30 minutes and 1 hour		

Between 1 hour and 2 hours

Total	0.00 / 0.00