



Week 7 Lab Assignment

Name: _____ Instructor Name: _____

Please use this template to help answer the questions listed in the lab instructions. The “steps” below refer to the steps listed in the lab instructions. Type your answers and post your screenshots in the spaces given.

1. Write a paragraph summarizing what you learned from the articles provided. Consider the use of confidence intervals in health sciences with these articles as inspiration and insights.

The confidence interval is the range of values a studied population will fall. The width of a confidence interval tells us how reliable a sample is. For example, a narrow confidence interval is reliable because the upper and lower limits are close to the mean. A wide confidence interval indicates more data should be collected before a conclusion is drawn. Determining if two confidence intervals are statistically different is done by seeing if the confidence intervals overlap. If the difference in the mean scores does not include zero, they are statistically different. If the confidence interval does include zero the observed difference is not statistically significant.

Data Collection

Use the data set you collected for the Week 5 lab (heights of 10 different people plus the 10 heights provided by your instructor). (**NOTE:** This is NOT the data used in the lab video, which is about midterm grades. Do not use the midterm grades data.)

Provide a screenshot of your Week 5 Data (20 Heights)

60	Mean	66.9474																		
62	Median	68.0000																		
64	Mode	68.0000	68	68	68	68	(Returns more than one mode)													
66	Sample Variance	19.0526																		
68	Sample Standard Deviation	4.3649																		
68	Population Variance	18.0499																		
69	Population Standard Deviation	4.2485																		
70	Range	15.0000																		
73	Count (n)	19.0000																		
65	Min	59.0000																		
71	Quartile 1	64.0000																		
63	Median	68.0000																		
64	Quartile3	70.0000																		
59	Max	74.0000																		
73	Interquartile Range (IQR)	6.0000																		
65																				
70																				
68																				
74																				

Summarize the Preliminary Calculations (Round to 2 decimal places):

Sample Mean: 66.95

Standard Deviation: 4.36

Your Height: 65

Please answer the following questions in complete sentences:

1. Discuss your method of collection for the values that you are using in your study (systematic, convenience, cluster, stratified, simple random).

I used convenience sampling by using my friends that I had over to my house that week.