SOC424L – Social Statistics @ CSUN w/ Godard

LIMITS LAB: Submission page

Secretary:	
Others:	
Instructions:	
 Look at POPULATN, in world95.sav The data set is for a population of 109 countries on the planet. For each case in the population, the number of people in that country (its population). This variable is POPULATN – which is <i>not</i> the same as the population (vs. sare). Having fun yet? © Answer the questions below, performing any calculations needed, and put you believe numbered blanks provided. You needn't submit any output or other prince. 	nple) of countries. r eleven answers in the
Questions:	
What is the mean population size for the population of 109 countries?	1
 What is the standard deviation of populations for the population? It's not just that it's fun to ask such a question. Well, that & it tests your meddle Are you comfortable enough w/ "population" vs. "sample" to hold that distinctio in mind while using a different sense of the word "population" at the same time 	n
What's the standard error of the population?	3
 Within what range do you estimate that 95.44% of sample means will be? Hint: You'll need the answers to #1 & #3 above, and table A (or memory, or not not note: This is the 95.44% confidence interval for the mean population for a same note. 	,
Randomly select a sample of ten countries. (DATA – SELECT CASES)	
What is the mean population for that random sample of 10 countries?	5
What is the std. deviation of population for that random sample?	6
If I put all lab groups' sample means into one dataset, what shape would it be?	7
ls this sample unusual (given your answer to Q4)?	8
Calculate and report the sampling error (for n=10 vs. N=109)	9
Calculate and report the standard error (for n=10)	10
If you only had your <i>sample</i> (w/ <i>its</i> mean & standard error), in what range would you estimate the population mean to be 95.44% of the time? • You'll need #5 & #10, some (short-term) memory (or Table A), and the formula	11a.