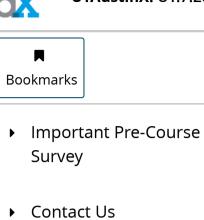
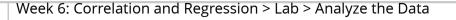


UTAustinX: UT.7.20x Foundations of Data Analysis - Part 2



- How To Navigate the Course
- Discussion Board
- Office Hours
- Week 0: Introduction to Data (Optional Review)
- Week 1: Sampling
- ▶ Week 2: Hypothesis



■ Bookmark

Reflect on the Question

Analyze the Data

Draw Conclusion:

PRIMARY RESEARCH QUESTIONS

- 1. For students in the Basic Sciences program, of the four measures of Quality of Life (Physical Health, Psychological, Social Relationships, and Environment), which has the greatest impact on Med School Quality of Life?
- 2. What is the overall proportion of variance accounted for by all four scales?

ANALYSIS

Let's break this question down into the different descriptive statistics that you will need to construct your answer. Be sure that your R output includes all of the following components.

To answer both lab questions:

Testing (One Group Means)

- Week 3: Hypothesis Testing (Two Group Means)
- Week 4: Hypothesis Testing (Categorical Data)
- Week 5: Hypothesis Testing (More Than Two Group Means)
- ▼ Week 6: Correlation and Regression

Readings

Reading Check due May 03, 2016 at 17:00 UTC

Lecture Videos

Comprehension Check due May 03, 2016 at 17:00 UTC

R Tutorial Videos

Pre-Lab

- 1. Subset the data for students in the Basic Sciences Program.
- 2. Determine the variables of interest and the outcome variable.
- 3. Run a Multiple Linear Regression.
- 4. Find the Standardized Betas for the coefficients using ImBeta().
- 5. Use pCorr() to find the partial and part correlations.

(4/4 points)

Provide the intitial bivariate Pearson Correlation Coefficients for the following variables and the outcome of Med School Quality of Life. Round to 4 decimal places:

1a. Physical Health QoL

0.4606

Answer: 0.4606

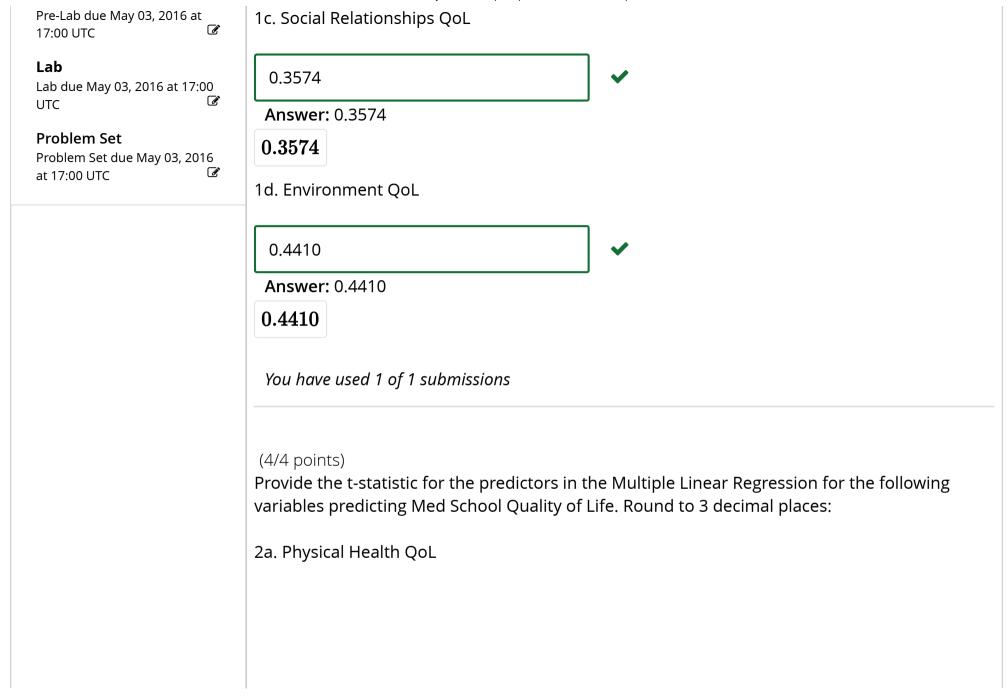
0.4606

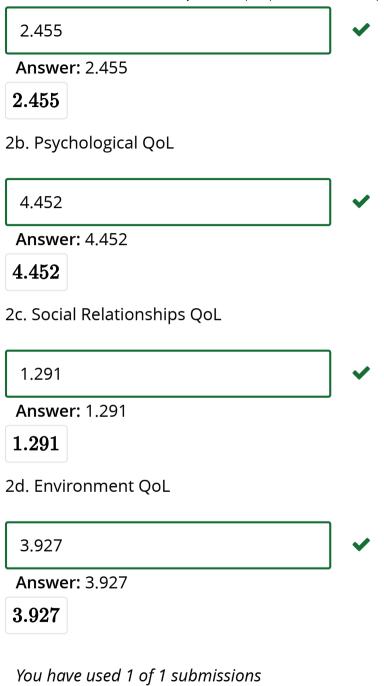
1b. Psychological QoL

0.5085

Answer: 0.5085

0.5085





(2/2 points)	
	or the prediction of Med School Quality of life?
3a. Overall Model F-value (Round to 2	decimal places.)
50.91	
Answer: 50.91	
50.91	
3b. Overall Model R-squared (Round to	n 4 decimal places)
55. Overall Model R Squared (Round to	7 + accimal places,
0.3097	
Answer: 0.3097	
0.3097	
0.0031	
You have used 1 of 1 submissions	
(2/2 points)	in the model would be considered the best prodictor of
Med School Quality of Life?	in the model would be considered the best predictor of
med 20001 Quality of Life.	

0	Physical Health QoL
•	Psychological QoL 🗸
0	Social Relationships QoL
0	Environment QoL
	What is the amount of unique proportion of varaince accounted for in the prediction of School Quality of Life by the best predictor (the correct answer above)?
0	0.2%
0	0.9%
0	2.3%
•	3.0% 🗸
You	have used 1 of 1 submissions

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