

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



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- Week 0: Introduction to Data (Optional Review)
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Question 3

The tables below show the regression output of a multiple regression model relating the beginning salaries in dollars of employees in a given company to the following predictor variables:

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

ANOVA Table					
Source	Sum of Squares	df	Mean Square	F-Test	
Regression	23665352	4	5916338	22.98	
Residuals	22657938	88	257477		

Coefficients Table					
Variable	Coefficient	s.e.	t-test	<i>p</i> -value	
Constant	3526.4	327.7	10.76	0.000	
Gender	722.5	117.8	6.13	0.000	
Education	90.02	24.69	3.65	0.000	
Experience	1.269	0.5877	2.16	0.034	
Months	23.406	5.201	4.5	0.000	
n=93	R ² =0.515	$R_{\alpha}^{2}=0.489$	σ-hat=507.4	df=88	

Gender An indicator variable (1=man and 0=woman)

Education Years of schooling at the time of hire

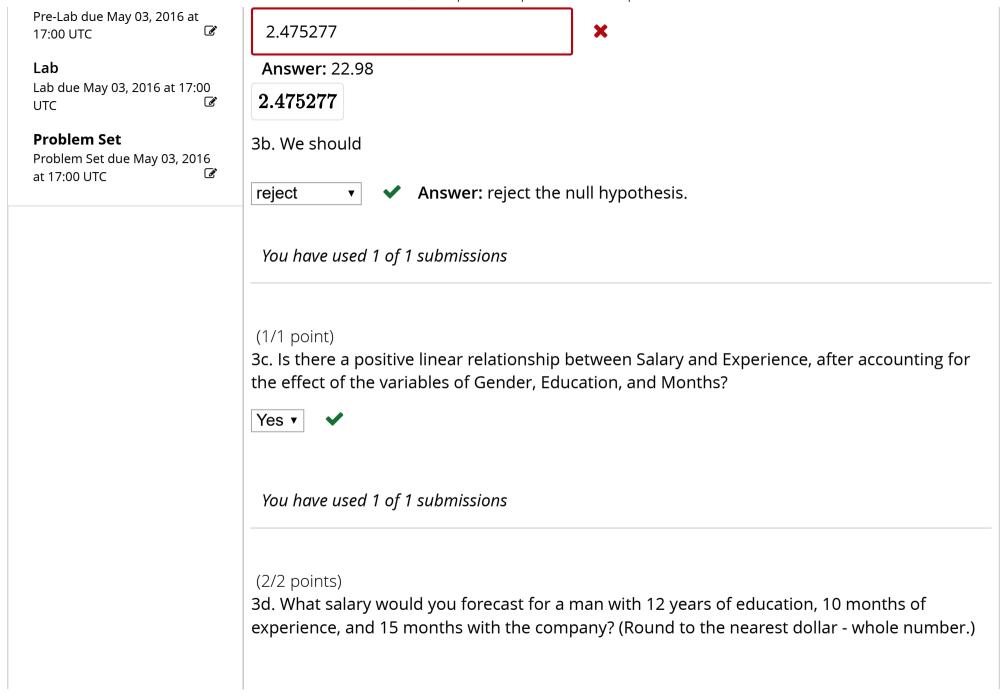
Number of months of previous work experience

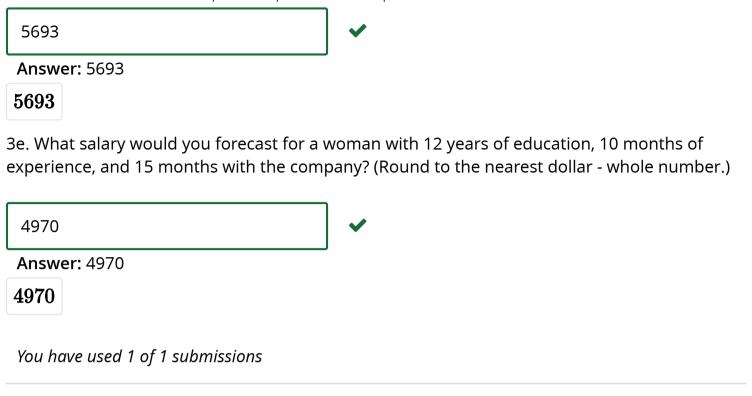
Months Number of months with the company

(1/2 points)

Experience

3a. What is the F-statistic for the overall fit of the regression (at a .05 level of significance)?





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