Name	ne: Lecture ti	ame (10, 11, or 12):
Lab P	Problems 11-12 (10 pts.)	
Statistics Spring 201 Dr. Nancy		
	there a statistically significant relationship betwident has a tattoo?	een gender and whether or not a
(a)	What variable or variables are involved? For eactitative or categorical. Which, if any, would be	, <u> </u>
	variable?	
(b)	Before you even look at the data, formula about the relationship between those variables H_0 : H_a :	V -
	Do you suspect that there will be enough evide	ence to reject H_0 ?
(c)	e) Use MINITAB Basics Example U to construct row percents, and carry out a chi-square test. Do you reject H_0 ?	v
(d)	State your results: since you did or did not those variables are related? Be sure to express of the variable(s) of interest, and mention to w suspicions in (b).	s your results specifically in terms

12.	Is th	ere a relationship between age and how much time a student spends on the phone?	
	(a)	What variable or variables are involved? For each variable, tell whether it is quantitative or categorical.	
		Which, if any, would be the obvious choice for explanatory variable?	
	(b)	Before you even look at the data, formulate null and alternative hypotheses about the slope β_1 of the population regression line. H_0 : H_a :	
		Do you suspect that there will be enough evidence to reject H_0 ?	
	(c)	Use MINITAB Basics Example Q to check the appearance of the scatterplot. Then carry out a regression procedure to test your hypotheses. What is the p-value?	
		Do you reject H_0 ?	
	(d)	State your results : since you did or did not reject H_0 , do you conclude that the population variables are related? Be sure to express your results specifically in terms of the variable(s) of interest, and mention to what extent the results match your suspicions in (b).	