Names:			
	Ch. 1	12: Regression Lab I	
Student Lea	rning Outcomes:		
•		nd construct the line of best fit bet ne relationship between two variab	
Do the Expe	eriment:		
	pers of your class for the sar cost of supplies for the curre	mple. Collect bivariate data (distan ent term).	ce an individual lives from
	Distance from school	Cost of supplies this term	
1. Which v	ariable should be the deper	ndent variable and which should be	the independent variable?

Class Time:

Why?

2.	Graph "distance" vs. "cost." Plot the points on the graph in 6. below . Label both axes with words. Scale both axes.				
3.	Enter your data into your calculator or computer.				
4.	Write the linear equation below, rounding to 4 decimal places.				
	a = b = correlation = n =				
	equation: $\hat{y} =$				
5.	For a person living 8 miles from campus , predict the total cost of supplies this term.				
	For a person living 80 miles from campus , predict the total cost of supplies this term.				
6.	Obtain the graph on your calculator or computer. Sketch the regression line below.				
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7.	Questic	tions (Answer each question with 1 - 3 complete sentences.)		
	a.	Does the line seem to fit the data?Why?		
8.	b.	What does the correlation imply about the relationship between the distance and the cost?		
	a.	Are there any outliers? If so, which point is the outlier?		
	b.	Should the outlier, if it exists, be removed? Why or why not?		