Name:	Date:
LAB 4A: If the line fits Response Sheet	
Directions: Record your responses to the lab questions in the spaces	provided.
How to make predictions	
Predicting heights	
(1) Write and run code using the data() function to load the ar	m_span data.
(2) Write and run code making a plot of the height variable.	
(3) If you had to predict the height of someone in the Los Angelo choose and why?	es area, what single height would you
(4) Would you describe this as a <i>good</i> guess? What might you tr	y to improve your predictions?
Predicting heights knowing arm spans	
(5) Write and run code creating two subsets of our arm_span daOne for armspan >= 61 and armspan <= 63.	ata:
 A second for armspan >= 64 and armspan <= 66. 	

(6) Write and run code creating a histogram for the height of people in each subset.

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Answer the following based on the data: - (7) What height would you predict if you knew a person had an armspan around 62 inches?
- (8) What height would you predict if you knew a person had an armspan around 65 inches?
- (9) Does knowing someone's armspan help you predict their height? Why or why not?
Fitting lines
(10) Write and run code creating a scatterplot for height and armspan. Then run the following code. add_line()
get.line() Predicting with lines
(11) Draw a line that you think is a good fit and write down its equation.
(12) Using this equation: Predict how tall a person with a 62-inch armspan and a person with a 65-inch armspan would be.
(13) How tall would you predict a person who is 63.5-inch armspan to be?

(14) Compare your answers with a neighbor. Did both of you come up with the same equation for a line? If not, can you tell which line fits the data best?