Name:	Date:
LAB 3B: Confo Response S	
Directions: Record your responses to the lab questions in	the spaces provided.
Finding data in new places	
Importing our data	
Our new data	
About the data	
Cleaning your data	
(1) Write and run code changing the type of variable character.	for gender and smoker from numeric to
(2) For gender, write and run code using recode to o	change "1" to "Male" and "0" to "Female".
(3) For smoker, write and run code using recode to	change "1" to "Yes" and "0" to "No".
Analyzing our data	
(4) Write down a reason the researchers couldn't use children's lungs.	e an experiment to test the effects of smoking on
(5) Do you think that a person's age affects their lun scatterplot of the two variables would look like and	

Name:	Date:
	3B: Confound it all! Response Sheet
(6) Write and run code using the lungs d plot and describe why the relationship be	lata to create an xyplot of age and lung_cap. Interpret the etween the two variables makes sense.
Smoking and lung capacity	
	t can be used to answer the statistical investigative guestion
	t can be used to answer the statistical investigative question r lung capacity than those who do not smoke?
(8) Use your plot to answer the question.	
(9) Were you surprised by the answer? W	Vhy?
(10) Can you suggest a possible confound	ding factor that might be affecting the result?
Let's compare	
(11) Write and run code creating three su - one that includes only 13-year-ol	
- one that includes only 15-year-ol	lds
<ul> <li>and one that includes only 17-year</li> </ul>	ar-olds.

Name:	Date:
	B: Confound it all! esponse Sheet
(12) Write and run code making a plot that for each subset.	compares the lung capacity of smokers and non-smokers
(13) How does the relationship between sr from 13 to 15 to 17?	moking and lung capacity change as we increase the age
Sum it up!	
(14) Does smoking affect lung capacity? If	so, how?