

Name: _____

Date: _____

Lab 3B: Confound it All! ***Response Sheet***

Directions: Record your responses to the lab questions in the spaces provided.

Importing our data

- For this data set, should you checkmark the *First Row as Data* or not? Why?

Analyzing our data

- Write down a reason the reseachers couldn't use an experiment to test the effects of smoking on children's lungs.
- Do you think that a person's age affects their lung capacity? Make a sketch of what you think a scatterplot of the two variables would look like and explain.
- Interpret the plot and describe why the relationship between the two variables makes sense.

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Smoking and lung capacity

- Use your plot to answer the question.

Do people who smoke tend to have lower lung capacity than those who do not smoke?

- Were you surprised by the answer? Why?
- Can you suggest a possible confounding factor that might be affecting the result?

Let's compare

- How does the relationship between smoking and lung capacity change as we increase the age from 13 to 15 to 17?

Sum it up!

- Does smoking affect lung capacity? If so, how?