

LAB 3B: Confound it all!

Response Sheet

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

Analyzing our data

- **Write down a reason the researchers 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.**

Use the lungs data to create an xyplot of age and lung_cap.

- **Interpret the plot and describe why the relationship between the two variables makes sense.**

Smoking and lung capacity

- **Use your plot to answer the question.**
 - **Were you surprised by the answer? Why?**

- **Can you suggest a possible confounding factor that might be affecting the result?**

Name_____

Date_____

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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?