Name_____   Date_____

LAB 1B: Get the picture?
Response Sheet

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

Where'd we leave off ...

Variable Types

- **Is height a numerical or categorical variable? Why?**

- **Is sex a numerical or categorical variable? Why?**

- **List either the different categories or what you think the measured units are for height and sex.**

Which is which?

    Use the code's output to help you complete the following:

- **Write down 3 variables that you think are *categorical* variables and why.**

- **Write down 3 variables that you think are *numerical* variables and why.**

Data Structures

- **What information does the str function output?**

Name_____   Date_____

• **Were you able to correctly guess which variables were categorical and numeric? Which ones did you mislabel?**

Visualizing data

• **Which function, either `bargraph` or `histogram`, is better at visualizing categorical variables? Which is better at visualizing numerical variables?**

We have options

• **Describe the distribution of `weight`. Make sure to describe the *shape*, *center* and *spread* of the distribution.**

• **How did including the option `nint = 3` change the `histogram`?**

• **Does setting `nint = 3` impact how you would describe the shape, center and spread?**

• **Try other values for `nint`. What value produced the best graph? Why?**

Name_____   Date_____

LAB 1B: Get the picture?
Response Sheet

How often do people text & drive?

Make a graph that shows how often people in our data texted while driving.

- **What does the y-axis represent?**

- **What does the x-axis tell us?**

- **Would you say that *most* people *never* texted while driving? What does the word *most* mean?**

- **Approximately what percent of the people texted while driving for 20 or more days?** (Hint: There's 17232 students in our data.)

Does texting and driving differ by sex?

- **Write a sentence explaining how boys and girls differ when it comes to texting while driving.**

- **Would you say that most girls never text and drive? Would you say that most boys never text and drive?**

- **How did including the groups argument in your code change the graph?**

Name_____   Date_____

LAB 1B: Get the picture?
Response Sheet

Do males and females have similar heights?

- **Can you use this graphic to answer the question at the top of the slide? Why or why not?**

- **Is grouping numeric values, such as heights, as helpful as grouping categorical variables, such as texting & driving?**

Do males and females have similar heights?, continued

- **Do you think males and females have similar heights? Use the plot you create to justify your answer.**

On your own:

- **Choose one variable from the `cdc` data, make a graph, and use the graph to describe how `drive_text` use differs with this variable.**