

Name: _____

Date: _____

Lab 1B: Get the Picture? *Response Sheet*

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

Variable Types

- Is height a numerical or categorical variable? Why?
- Is gender a numerical or categorical variable? Why?
- List either the different categories or what you think the measured units are for height and gender.

Which is which?

- 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

- List all the types of info the `str()` function outputs.
- Were you able to correctly guess which variables were categorical and numeric? Which ones did you mis-label?

Visualizing data

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

Name: _____

Date: _____

Lab 1B: Get the Picture? Response Sheet

How often do people text & drive?

- 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 15624 students in our data.)

Does texting and driving differ based by gender?

- Fill in the blanks with the correct variables to create a side-by-side bargraph:

bargraph (~ _____, data = _____, groups = _____)
- Write a sentence explaining how boys and girls differ in their 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?

Do males/females have similar heights?

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

Name: _____

Date: _____

Lab 1B: Get the Picture?
Response Sheet

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