Nam	ne: Date:				
	Lab 1B: Get the Picture? Response Sheet				
Dire	ctions: Record your responses to the lab questions in the spaces provided.				
Vari	able 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.				
Whie	ch is which? Write down 3 variables that you think are categorical variables and why.				
•	Write down 3 variables that you think are <i>numerical</i> variables and why.				
Data •	a 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?

Nom		Data
INali	Lab 1B: Get the Picture? Response Sheet	Date:
Have	•	
•	woften do people text & drive? What does the y-axis represent?	
•	What does the x-axis tell us?	
•	Would you say that <i>most</i> people <i>never</i> texted while driving? What	does the word <i>most</i> mean?
•	Approximately what percent of the people texted while driving for 15624 students in our data.)	20 or more days? (Hint: There's
Doe	s texting and driving differ based by gender? Fill in the blanks with the correct variables to create a side-by-side	e bargraph:
	bargraph (~, data =	, groups =)
•	Write a sentence explaining how boys and girls differ in their textil	ng 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?

Nar	ne:		Date:	
			the Picture? se Sheet	
•	Is grouping numeric valutexting & driving?	ıes, such as heights, as	s helpful as grouping categorical varia	bles, such as
Do •	males/females have sim Why does this work for b	_	stograms?	
•			eate a split histogram (The " " symbourd) to answer the questions below:	ol is usually
	histogram (~	1	, data =)

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

Just like we did for the histogram, is it possible to create a *split* bargraph? Try to create a bargraph of drive_text that's split by gender to find out.

On your own:

What other factors do you think might affect how often people text and drive?

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.