Name:	Date:
	t the picture? nse Sheet
Directions: Record your responses to the lab question	ons in the spaces provided.
Where'd we leave off	
Variable Types	
(1) Is height a numerical or categorical variable	? Why?
(2) Is sex a numerical or categorical variable? W	/hy?
(3) List either the different categories or what y	ou think the measured units are for height and sex.
Which is which?	
Use the code's output to help you complete the	following:
(4) Write down 3 variables that you think are <i>ca</i>	tegorical variables and why.
(5) Write down 3 variables that you think are <i>nu</i>	merical variables and why.
Data Structures	
(6) What information does the str function out	put?

Nar	me: Date:
	LAB 1B: Get the picture?  Response Sheet
	(7) Were you able to correctly guess which variables were categorical and numeric? Which ones did you mislabel?
Vis	ualizing data (8) Choose one numeric variable. Write and run the codes to create a bargraph and a histogram.
	(9) Choose one categorical variable. Write and run the codes to create a bargraph and a histogram.
	(10) Which function, either bargraph or histogram, is better at visualizing categorical variables? Which is better at visualizing numerical variables?
We	have options (11) Write and run the code to make a graph that shows the distribution of people's weight.
	(12) Describe the distribution of weight. Make sure to describe the <i>shape</i> , <i>center</i> and <i>spread</i> of the distribution.

(13) How did including the option nint = 3 change the histogram?

Name:	Date:
	Set the picture? Onse Sheet
(14) Does setting nint = 3 impact how you w	ould describe the shape, center and spread?
(15) Try other values for nint. What value pro	oduced the best graph? Why?
How often do people text & drive?	
(16) Write and run the code to make a graph t driving.	hat shows how often people in our data texted while
(17) What does the y-axis represent?	
(17) What does the y-axis represent:	
(18) What does the x-axis tell us?	
(10) Would you say that most poople never to	cted while driving? What does the word most mean?
(17) Would you say that most people never tex	tted wille driving: vviiat does the word <i>mo</i> st mean:

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

Name:			Date:	
		Get the picture? Conse Sheet		
Does texting and driving dif	fer by sex?			
(21) Write and run the c texting and driving differ	-	• •		estion: <i>Does</i>
bargraph(~	_, data =	, groups =	)	
(22) Write a sentence ex	xplaining how boys an	d girls differ when	it comes to texting whi	le driving.
(23) Would you say that and drive?	t most girls never text	and drive? Would y	you say that most boys	never text
(24) How did including t	the groups argument i	in your code chang	e the graph?	
Do males and females have	similar heights?			
(25) Write and run the c groups argument.	ode to create a histo	gram for the heigh	t of males and females	s using the
(26) Can you use this gr	aubia ta austriau tha su	unation at the tarre	مراد در در ۱۸۷۸ و مراد کار	.v. mat2

(27) Is grouping numeric values, such as heights, as helpful as grouping categorical variables, such as texting & driving?

Name:	Date:
LAB	1B: Get the picture? Response Sheet
Do males and females have similar heights?	, continued
(28) Write and run the code to create a	split histogram to answer the questions below:
(29) Do you think males and females ha	ve similar heights? Use the plot you create to justify your
(30) Just like we did for the histogram, code to create a bargraph of drive_te	is it possible to create a <i>split</i> bargraph? Write and run the ext that's split by sex to find out.
On your own: (31) What other factors do you think mi	ight affect how often people text and drive?
(32) Choose one variable from the cdc of drive text use differs with this variab	data, make a graph, and use the graph to describe how le.