## LAB 1A: Data, Code & RStudio

Directions: Record your responses to the lab questions in the spaces provided.		
Welcome to the labs!		
So let's get started!  Describe the data that appeared after running View(cdc):		
• Who is the information about?		
What sorts of information about them was collected?		
Data: Variables & Observations  Based on the data, describe a few characteristics about the first observation.		
What does the first column tell us about our observations?		

## **Uncovering our Data's Structure**

How many students are in our cdc data set?

•	How many variables were measured for each student?
Тур	e the following commands into the console
•	Which of these functions tell us the number of observations in our data?
•	Which of these functions tell us the number of variables?
Firs	t Steps
Syn•	tax matters  Run the following commands and write down what happens after each. Which does R understand?
R's	most important syntax
Syn•	tax in action  Which one of these plots would be useful for answering the question: Is it unusual for students in the CDC dataset to be taller than 1.8 meters?
•	Do you think it's unusual for students in the data to be taller than 1.8 meters? Why or why not?

## On your own:

•	What is public health and do we collect data about it?
•	How do you think our data was collected? Does it include every high school aged student in the US?
•	How might the CDC use this data? Who else could benefit from using this data?
•	Write the code to visualize the distribution of weights of the students in the CDC data with a histogram. What is the <i>typical</i> weight?
•	Write the code to create a bargraph to visualize the distribution of how often students ate fruit. About how many students did not eat fruit over the previous 7 days?