Name:	Date:
	oout Distributions nse Sheet
Directions: Record your responses to the lab question	ons in the spaces provided.
In the beginning	
How to talk about data	
Let's begin!	
(1) Write down the names of the 4 variables that personality color.	at contain the point-totals, or scores, for each
(2) Write down the names of the variables that designation and whether they are involved in sp	
(3) How many variables are in the dataset?	
(4) How many observations are in the dataset?	
Estimating centers (5) Write and run code creating a dotPlot of th	ne scores for your <i>predominant color</i> .
(6) Which values came up the most frequently? similar to yours?	About how many people in your class had a score

(7) What, would you say, was a *typical* score for a person in your class for your predominant color? How does your own score for this color compare?

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LAB 2A: All About Distributions Response Sheet

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Means and medians
(8) Fill in the blank to calculate the mean value of your predominant color score:
mean(~, data = colors)
(9) Write and run a similar line of code to calculate the median value of your predominant color.
(10) Are the mean and median roughly the same? If not, use the dotPlot you made in the last slide to describe why.
Estimating Spread
(11) Write and run code re-creating a dotPlot of the scores for your <i>predominant</i> color and then run the code below filling in the blank with the name of your predominant color.
add_line(vline = mean(~, data = colors))
(12) Look at the spread of the scores from the mean score then complete the sentence below: Data points in my plot usually fall within units of the center.
Mean Absolute Deviation
(13) Write and run code calculating the MAD of your <i>predominant color</i> by filling in the blank: MAD(~, data = colors)
(14) How close was your estimate of the spread for your predominant color (from the previous slide) to the actual value?

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On your own

predominant color's scores?

Perform an analysis that produces numerical summaries and graphs.

(20) Then, write a few sentences that address this statistical investigative question and considers the *shape*, *center* and *spread* of the distributions of the graphs you create.

(19) Based on the MAD, which group (introverts or extroverts) has more variability for your