IVai	ne
	Lab 2A: All About Distributions  Response Sheet
Dire	ections: Record your responses to the lab questions in the spaces provided.
Let'	's begin!
•	Write down the names of the 4 variables that contain the point-totals, or <i>scores</i> , for each personality color.
•	Write down the names of the variables that tell us an observation's birth gender and whether they participated in playing sports.
•	How many variables are in the data set?
•	How many observations are in the data set?
Est •	imating centers  Which values came up the most frequently? About how many people in your class had a score similar to yours?
•	What, would you say, was a <i>typical</i> score for a person in your class for your predominant color? How does your own score for this color compare?

Nan	ne: Date:
	Lab 2A: All About Distributions  Response Sheet
Mea	ans and medians
•	Use a similar line of code to calculate the median value of <i>your</i> predominant color.
•	Are the mean and median roughly the same? If not, use the dotPlot you made in the last slide to describe why.
Con	nparing birth_genders  Do males and females differ in their typical scores for your predominant color? Answer this statistical question using your dotPlot.
•	Assign the mean values a name. Then place the name into the diff() function to calculate the difference. How much more/less did one birth gender score over the other for your predominant
	color?
Esti	mating Spread
•	Look at the spread of the dotPlot you made for your predominant color then fill in the blank:

Data points in my plot will usually fall within \_\_\_\_\_ units of the center.

Which birth gender, if either, seems to have values that are more spread out from the center?

Name:	Date:

## **Lab 2A: All About Distributions** Response Sheet

## **Mean Absolute Deviation**

•	Based on the MAD, which birth gender has more variability for your predominant color's scores?

Does this match the answer you gave for the last question in the previous slide?

## On your own

Perform an analysis that produces *numerical summaries* and *graphs*.

Then, write a few sentence interpretations that address this statistical question and consider the shape, center, and spread of the distributions of the graphs you create.