Nan	ne: Date:
	Lab 2B: Oh the Summaries  Response Sheet
Dire	ctions: Record your responses to the lab questions in the spaces provided.
Extr	reme values
•	Which of the color scores had the smallest min value? Which had the largest max value?
•	Use the range function to calculate the max and min values of your predominant color.
Calc	culating a range value
•	Use these two steps to calculate the <i>range</i> of your predominant color.
	<ul> <li>Step 1: Use the range function to assign the max and min values of a variable the name values.</li> <li>Step 2: Use the diff function to calculate the difference of values.</li> </ul>
Usir	ng mm_diff()  Which of the four colors has the largest absolute difference between the mean and median values?
	The state of the s
•	By examining a dotPlot for this personality color, make an argument why either the mean or median would be the better description of the <i>center</i> of the data.

Name:	Date:
Lab 2B: Oh the Summaries  Response Sheet	
Our first function	
<ul> <li>Use a dotPlot or histogram to find the personality color with the large and min values. Then use the Range function you created to calcula</li> </ul>	
Quartiles (Q1 & Q3)	
Use a similar line of code to calculate Q3, which is the value that's	larger than 75% of our data.
The Inter-Quartile-Range (IQR)	
Write down the numbers that split the data up into these 4 pieces.	

How long is the interval of the middle two pieces?

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## Lab 2B: Oh the Summaries...

Response Sheet			
Calc	ulating the IQR		
•	Use the values of Q1 and Q3 you calculated previously and find the IQR by hand.		
•	Then use the iqr() function to calculate it for you.		
•	Which personality color score has the widest spread according to the <i>IQR</i> ? Which is narrowest?		
Вохр	plots		
•	By showing someone a dotPlot, how would you teach him/her to make a <i>boxplot</i> ? Write out your explanation in a series of steps for the person to use.		
•	Use the steps you write to create a sketch of a <i>boxplot</i> for your predominant color's scores.		
•	Then use the bwplot function to create a boxplot using R.		

Name:	Date:

## Lab 2B: Oh the Summaries... Response Sheet

## On your own

Create a function called myIQR that uses the only quantile function to compute the middle 30% of the