NAME_____

Skittles Lab

Intro: Now that you have learned several different ways to collect data you are going to apply that knowledge to actual data. You and your lab group will be receiving a cup of Skittles. THESE SHOULD NOT BE EATEN. (there are some on my desk that are the ones to eat)

This Lab has 4 parts. You cannot move onto the next part until the teacher has seen your completed work. If at any time I catch you eating you lab equipment (the skittles) you will be given a ZERO for the day. I would suggest making data tables first so you have a place to record the data.

PART A

1. SEPARATE THE CUP OF SKITTLES BY COLOR
2. COUNT THE NUMBER OF SKITTLES IN EACH COLOR GROUP
3. CREATE A DATA TABLE THAT REPRESENTS THIS INFORMATION
4. DESIGN A GRAPH OF YOUR DATA
5. SHOW COMPLETED WORK TO THE TEACHER

PART B

SKIPT

1. KEEP YOUR SKITTLE SEPARATED BY COLOR
2. FIND THE TOTAL MASS OF EACH COLOR GROUP USING A BALANCE
3. RECORD THE RESULTS IN A DATA TABLE
4. GRAPH THE DATA

Part C.

1. KEEP YOUR SKITTLE SEPARATED BY COLOR
2. CALCULATE WHAT PERCENT OF YOUR TOTAL SKITTLE COUNT BELONGS TO EACH COLOR
3. MAKE A DATA TABLE OF YOUR RESULTS
4. DESIGN A GRAPH FOR THIS DATA

PART D

1. FOR THIS PART, YOUR SKITTLES DO NOT NEED TO BE SEPARATED BY COLOR
2. USING THE BALANCE FIND THE MASS OF ANY 5 SKITTLES
3. ADD FIVE MORE SKITTLES TO THE SCALE AND FIND THE NEW MASS
4. REPEAT STEP 3 UNITL YOU HAVE FOUND THE MASS OF AT LEAST 50 SKITTLES
5. CREATE A DATA TABLE THAT SHOWS THIS INFORMATION
6. DESIGN A GRAPH OF YOUR DATA

Questions:

1) Look at your graph for part A. Explain which variable is on the x- and y-axis and why you chose to put them there.

2) ~~According to data collected in part B, which color group had the most mass?~~ How would someone be able to tell from looking at your graph that this group ~~had the most?~~

2) Look at your graph for part C. Why did you choose this type of graph over the other two types of graph?

3) Describe shape/slope of your graphed data for part D.

4) Why do you think it looks like this?

5) Using the graph from part D, estimate the mass of 1 skittle: _____

32 skittles: _____

59 skittles: _____