

How's My Estimating?

Record your results on the table below. Then answer the questions about the activity.

Part I - One Variable Statistics

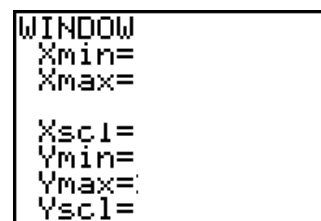
Container	Estimate L1	Actual L2
A		
B		
C		
D		
E		

1. Enter the data for the Estimate of the number of skittles in L1 on your calculator.
Enter the data for the Actual number of skittles in L2 on your calculator.
2. If your estimate were to be correct, how would it compare with the actual number?

3. Set up a scatterplot to view a picture of L1 vs. L2 on your calculator as illustrated at the right. The L1 (estimates) will be graphed on the x-axis and the L2 (actual) will be graphed on the y-axis.



4. Look at the numbers in your two lists L1 and L2 and select a window that includes the numbers in these two lists. L1 should describe the xMin and xMax and L2 should describe yMin and yMax. Write your window down. You do not need to write down Δx .



5. If the estimates (x) and actual (y) were exactly the same what equation would express this idea?

Enter this equation in Y1 on your calculator.

6. Press GRAPH and make a sketch of your graphing window in the space at the right.



7. You will notice that some points are above the line, others are below the line and some may even touch the line. Press TRACE. The coordinates for the first point are in the window. What do you notice about its location with respect to the line? What do you notice about the coordinates? Use the table below to record information about each of the five containers.

L1	L2	Relationship to the Line

8. Suppose you guessed 30 candies would fit in the container but then when you found the actual amount it was only 25. Where would this point fall in relationship to the line?
9. In a second container, suppose you guessed 50 would fit and there were actually 59, where would this point fall in relationship to the line?
10. Suppose you were able to guess that 42 skittles would actually fit in the container and this matched the exact amount. Where would your point fall in relationship to the line?
11. Create a point that would fall below the graph of the line if the actual amount in the container were 30 skittles.
12. Create a point that would fall above the graph of the line if the estimated number were 10 skittles.