

M & M s Activities for Statistics

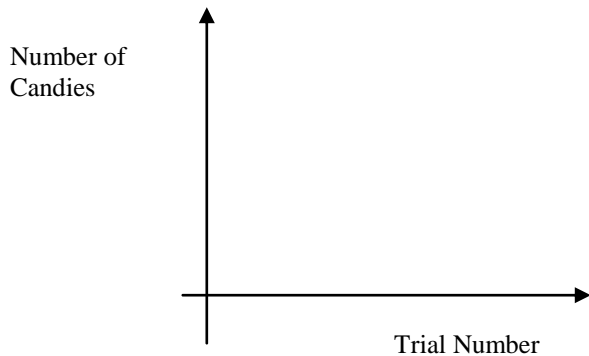
Activity 5: What happens when we eat the candy?

1. Count the number of pieces of candy in your tube - Place that number in Trial Number 0.
2.
 - (a) Place the candy in the tube.
 - (b) Shake.
 - (c) Pour on the table.
 - (d) Remove the pieces of candy with no mark displayed.
 - (e) Count the remaining pieces of candy.
 - (f) Place that number in Trial Number 1.
3. Repeat step 2 (increasing the trial number by 1) until there is only 1 piece of candy left.

Trial Number	0	1	2	3	4	5	6	7	8	9
Number of Candies Left										

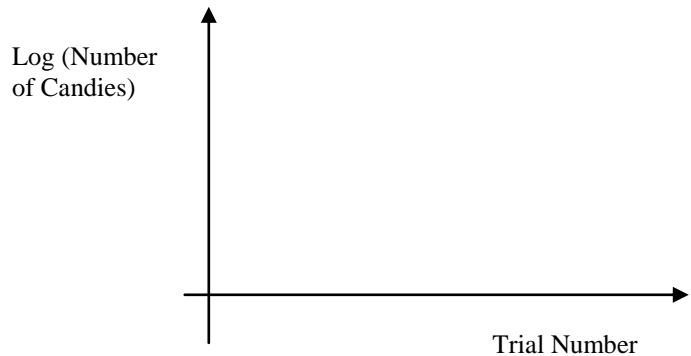
4. Draw a scatterplot of:

(Trial Number, Number of Candies)



5. Transform the data and draw a scatterplot of:

(Trial Number, log(Number of Candies))



6. Find the least-squares regression line of the transformed data. [$y = a + bx$]

LSRL _____ r^2 _____

7. Undo the transformation and find the model [$y = 10^a b^x$]
