Skittles Group Project

1. Determine the proportion of each color within the overall sample gathered by the class.
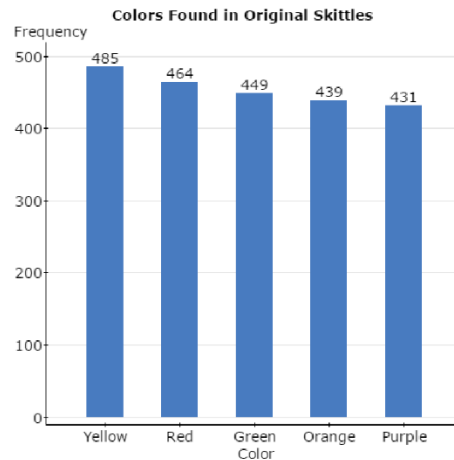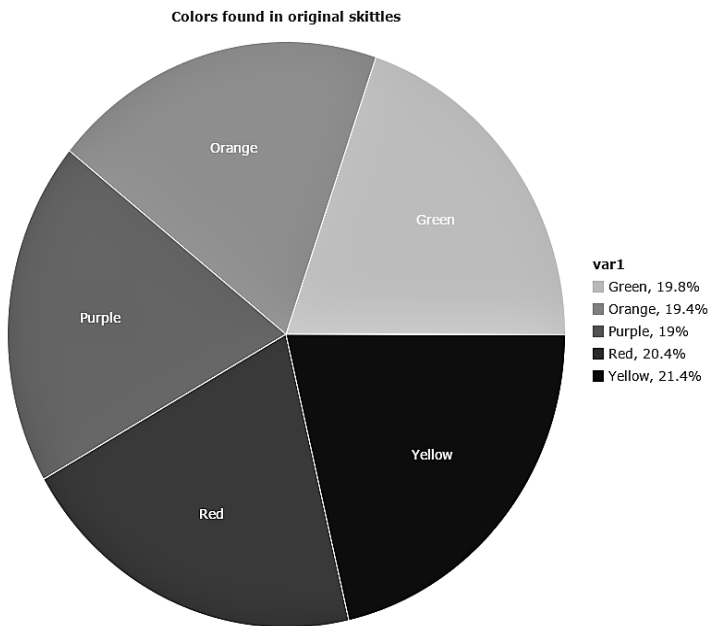
   FIRST: Guess! What do you expect the proportions to be? Why?

   We expected the proportions to be similar, since the candies are all manufactured in an assembly line and are all placed into a 2.17 oz bag.

   SECOND: Now open the data set and compute the proportions of Red, Orange, Yellow, Green, and Purple candies in the class data set. Note that the sample size is the total number of candies collected by the class.

Yellow	Red	Green	Orange	Purple	Total
485	464	449	439	431	2268

2. In StatCrunch, create a pie chart and a Pareto chart for the total number of candies of each color in our class data set. Submit copies of your graphs in this report.

Colors found in original skittles

var1
- Green, 19.8%
- Orange, 19.4%
- Purple, 19%
- Red, 20.4%
- Yellow, 21.4%

Colors Found in Original Skittles

3. Does the class data represent a random sample? What would the population be? Collaborate to discuss sampling and our data in a paragraph or two.

   The random sample we obtained as a class was the 38 individual bags of skittles. We think that each bag in a store or gas station had an equal chance of being selected by the student purchasing it. The population would be all 2.17 oz original bags of skittles that are manufactured and sold by the company.