

# MMs / Skittles Project:

## Objective:

The purpose of this project is to review statistics and collaboratively work to organize data using a Spreadsheet Program.

## Instructions:

In this exercise you are going to collect, analyze, and organize data with a team of 3 to 4 people. Everyone in the group will take a role. Group members should stay with their group and work together at all times to solve problems together

- 3 person group – One person should be responsible for entering in the data; one person should work on assigning the totals, min, average, and max formulas; one person should work on formatting (applying bold, italics, borders, ect) and creating a Pie chart.
- 4 person group – One person should be responsible for entering in the data; one person should work on assigning the totals, min, average, and max formulas; one person should work on formatting (applying bold, italics, borders, ect) and One person should create a Pie chart.

## Part I:

1. During class you will be given mini packages of MMs / Skittles. The contents of the package are to be used in an experiment, and are not to be eaten until completion of the project.
2. Count the number of each color in the package and record on your data collection sheet. Also, count any defects such as no “s” (skittles) or “m” (MMs) or cracked candies.

## Part II:

1. Your task is to develop a spreadsheet report of your observations of you and your classmates. Your report should AT LEAST include.
  - Total amounts for each color
  - Total number of defective items
  - Total amount for each person
  - MIN of each color of candies in the packages
  - MAX of each color of candies in the packages
  - Labeled 3-D Pie Chart for a Graphical description of total numbers and color information.

## Part III:

Upon completion of your experiment and spreadsheet report answer the following questions:

- Why might totals of the various colors be different? Why are they not equal?
- Are the amounts of any of the colors much greater than the others? Why do you think this might happen?
- Looking at the defective items count . . . tell ways candy production could be altered to prevent from damaging the product.