

# 5<sup>th</sup> Grade PIP Market Math Mania

## Skittles Statistics



Acton **PIP** Parent Involvement Project

# SKITTLES STATISTICS

Do not open your bag yet. Guess how many candies are in your bag. \_\_\_\_\_

Open your bag and count the candies. How many were there? \_\_\_\_\_

What was the difference between your guess and the actual count? \_\_\_\_\_

Now put your candies into sets by color. Write the number of candies in each set.

Red \_\_\_\_\_ Green \_\_\_\_\_ Yellow \_\_\_\_\_ Purple \_\_\_\_\_  
 Orange \_\_\_\_\_ Total Number of Skittles in YOUR BAG \_\_\_\_\_

Let's say you have two additional bags of Skittles with the following color sets listed below. Add the sets of your Skittles bag into the column labeled "YOUR BAG" below. Next, total up the numbers, by color, and place your answers into the Total Column.

\*\*\* Bonus Section \*\*\*

YOUR BAG

Colors	Bag 1	Bag 2	YOUR BAG	Total	Percent	Fraction
Red	11	8				
Green	13	12				
Yellow	15	13				
Purple	10	15				
Orange	9	11				
Totals	58	59				

1. What is the average number of skittles in the 3 bags? \_\_\_\_\_
2. What color(s) appeared the most often in YOUR BAG? \_\_\_\_\_ (This is called the mode).
3. Plot the mode on the bar graph using the colored marker on the display chart. Notice how it compares to the others.
4. In YOUR BAG, what is the range in set size? \_\_\_\_\_ The smallest set color was \_\_\_\_\_ with \_\_\_\_ Skittles. The largest set color was \_\_\_\_\_ with \_\_\_\_ Skittles.

**\*\*Bonus\*\*** In YOUR BAG, about what percentage of the Skittles were red? \_\_\_\_ Can you estimate the percentage of the other colors? (Hint: find out what 10% of the total in your bag is! You may want to use a calculator). Note your answers in the Percent Column on the Skittles Chart. The percents should add up to about 100%

**\*\*Double Bonus\*\*** IN YOUR BAG, approximately what fraction do the red Skittles represent? What fraction do the remaining colors represent? (Hint your fractions should add up to equal 1)