

# PIP 5<sup>th</sup> Grade Market Math Mania "At Home" Activity

## Skittles Statistics

\*\*\*To do this activity, you need to buy a bag of Skittles first...\*\*\*

### 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 columns 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	10	14				
Green	14	11				
Yellow	12	13				
Purple	10	12				
Orange	11	9				
Totals	57	59				

1. What is the average number of skittles in the 3 bags? \_\_\_\_\_
2. What color appeared the most often in **your bag**? \_\_\_\_\_ (This is called the mode).
3. In **your bag**, what is the range in set size? The smallest set was \_\_\_\_\_ (color) with \_\_\_\_\_ Skittles. The largest set was \_\_\_\_\_ (color) with \_\_\_\_\_ skittles.

**Bonus:** IN YOUR BAG, what percentage of the Skittles was red? \_\_\_\_\_ (Hint: find out what 10% of the total in your bag is!) Can you estimate the percentage of the other colors? 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.)