

Mr. Breitsprecher's Edition

**December 2016** 

**FREE!** 

When we accumulate data, as the numbers get bigger, the patterns in our data become clearer and more accurate. We can see this by analyzing the content of bags of skittles.

In today's spreadsheet, we will analyze the colors of Skittles candies in a small bag. Please carefully create the spreadsheet you see on the right entering the formulas/ functions exactly as shown.

By default, all **cell** references are relative references. When copied across multiple **cells**, they change based on the relative position of rows and columns. For example, if you copy the formula =A1+B1 from row 1 to row 2, the formula will become =A2+B2.

When you use a cell reference with a letter and number (i.e B3), when that address is used in a formula or function and is copied or filled, MS Excel adjusts the cell address – this is a RELATIVE cell address. Using dollar signs (i.e. B3/\$B\$9) is an ABSOLUTE CELL ADDRESS and it will not change when it is filled or copied.

We will create spreadsheets of individual bags of Skittles and then add the results from 2 more bags of Skittles. Next week, we will add all of our data and compare graphs of our results across the class.

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llate data, gger, the			A		В	С	D
ecome	1	Skittles	Analysis, k	ру Ү	OUR NAME		
arate. We zing the ittles. sheet, we rs of small bag. re the on the right / functions	2	Type of	Skittle	E	Bag #1	Bag #2	Bag #3
	3	Grape			3	data	data
	4	Orange			12	data	data
	5	Strawberry		1	10	data	data
	6	Lemon		1	11	data	data
	7	Green Apple		9	9	data	data
	8	Totals		=	=SUM(B3:B7)	=SUM(C3:C7)	=SUM(D3:D7)
1	9						
ve pied across hange position . For the m row 1 to ill become	10	Percent of Each Bag					
	11	% of Grape		-	=(B3/\$B\$8)*100	=(C3/\$C\$8)*100	=(D3/\$D\$8)*100
	12	% of Orange		F	Fill Down	Fill Down	Fill Down
	13	% of Strawberry		F	Fill Down	Fill Down	Fill Down
	14	% of Lemon		F	Fill Down	Fill Down	Fill Down
	15	% of Green Apple			-ill Down	Fill Down	Fill Down
	16	Totals			=SUM(B11:B15)	=SUM(C11:C15)	=SUM(D11:D15)
r and	4	•	skittlesBag	Cha	art1 (+)		: •



When you have completed the data entry and analysis of your bag of Skittles, then please check with 2 classmates and get the data for 2 other bags of Skittles to add to your spreadsheet.











Remember, select non-contiguous columns by highlighting the first one you need with the mouse. Then hold the CNTRL key and highlight the next range of cells you need to select to create a graph. Based on your data, does it look like Skittles tries to balance the flavors in each bag?

Next week, we will chart combined data for 20+ bags of Skittles and we will see. It's the Law of Large Numbers!