Name:	Lab #:
DUE DATE:	Period:
LAB: "The M&M Metho	od"
Introduction:	
Imagine a world where everything was black and white. How we describe emotions, events, or appearances? Without color, you couldn	· ·
town red, or feel pretty in pink. Color also helps us pick our foods. A	•
appetizing color combination appeals to all our senses. In fact, without	t color, eating could get
boring. With this in mind, many candy companies try to appeal to our se	ense of color by coloring
our favorite foods certain colors. But, how do they appeal to all those	· · · · · · · · · · · · · · · · · · ·
favorites? Who do the candy companies like the most? Well, by using	-
sampling a bag of M&M's we can find this out!	
1. State the Purpose:	
• To apply the steps to the scientific method to determine the ratio	of
different colors in a bag of M&M's.	& aut
 To record data and construct a graph of data. To determine if there are consistent patterns in the packaging of 	M&M's
Materials:	
m 3-4 bags of same size M&M's per group Calculator	Colored Pencils
2. Gather Information:	
a) What is the bag size of the M&M's you have? (Use the metri	c measure!)
b) What is the serving size for your bag of M&M's?	
c) What company manufactures this product?	
d) Write down the company's address the co	ompany's web site address
www	
The state of the s	m m
	mmn
I	
e) Is there a 1-800 telephone number? If so, what	is it?
f) Open & sort your M&M's by color. List the colors from r	nost to least:
From the collected information, write your hypothesis to what yo	ou think is the most.
popular m&m color:	
popului iii cilii coloi ·	

Work Space

Use this space for any calculations you need











What's in the Bag?

 $\% = \frac{\text{Color Number}}{\text{Total for Sample}} \times 100$

Avg. = $\frac{\text{Total for each color}}{4}$



5a. Recording Data

M&M	Sample 1		Sample 2		Sample 3		Sample 4		Total for each color	Average for each color
Colors	No.	%	No.	%	No.	%	No.	%	Cach color	cuen color
Total for Sample										Grand

5b. Analyzing Data:

Design a bar graph of your totals of each color using the following information: **X-axis** = M&M color, **Y-axis** = Total for color, **Title your graph**: M&M Color Count Analysis (Be sure to include a key on your graph!!)

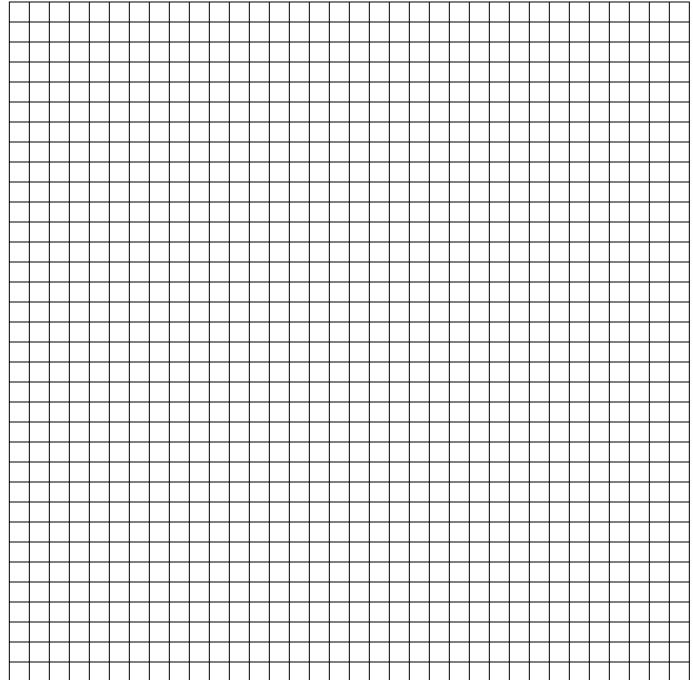
b)	What was the most common color? Did it agree with your hypothesis?
	What was the least common color? Did it agree with your hypothesis?
c)	Why do you think there are more of one color than other colors?
d)	In your observations, was there a difference in taste from one color to another?
u)	Explain.



Graph Your Data



Title: _____





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