IntroActivity2 - Data Exploration



"The Great m&m Experiment" Adapted from Michelle Hipke



Question: What percentage of milk chocolate m&m candies are orange?

The purpose of this activity is to introduce you to the basic concepts we will be encountering in AP Statistics. Your goal is to answer the question above using only a "sample" of m&m candies. You must justify your conclusion by organizing, plotting, and referencing data collected by the entire class.

I. Collecting the Data:

Scoop out a sample of M&M candies. Count the total number of M&Ms in your sample. You will need exactly 25 M&Ms, so if you need more, randomly choose a few more to add to your sample. If you have too many, you must randomly choose M&Ms to discard. DO THIS WITH YOUR EYES CLOSED! NO PEEKING!

ecord t	he class o	data using	g the follo	wing char	t:			
		T		Τ				
	İ							
anizi	ng the	Data:	Organiz	ze the d	lata in :	a mean	ingful	way.
anizi	ng the		Organiz				ingful	way.
anizi	ng the		Organiz				ingful	way.
anizi	ng the						ingful	way.
anizi	ng the						ingful	way.
anizi	ng the						ingful	way.

Everything I Ever Wanted to Know about AP Statistics I Learned From a Bag of m&m's

Can you summarize the class data using a basic numeric measure?

III. Displaying the Data: Display the data using a dot plot.



IV. Analyzing the Data:

- Describe some general features of the data.
- What would you consider a "normal" or "typical" percentage of orange M&Ms? Why?
- Does our data reveal the true percentage of orange M&Ms? If so, what is the true percentage? If not, what DOES it reveal about the true percentage?
- Conclusion? How confident are you in your conclusion? Why?