

Name: _____

Hour: _____

Data and probability Activity

You will be completing an activity to help you review basics of graphing and data analysis, while incorporating probability.

1. You will be given a bag of M&M's and you are to predict the amount of each color of candies in the bag.

My Predictions for my bag:

Red: _____ Blue: _____ Green: _____

Orange: _____ Brown: _____ Yellow: _____

My predictions for the entire class:

Red: _____ Blue: _____ Green: _____

Orange: _____ Brown: _____ Yellow: _____

2. You may now open the bag and count how many actual pieces of candy are in the bag for each of the colors:

MY Actual amount:

Red: _____ Blue: _____ Green: _____

P(R) = _____ P(B) = _____ P(G) = _____

Orange: _____ Brown: _____ Yellow: _____

P(O) = _____ P(BR) = _____ P(Y) = _____

Using the above data, make a bar graph of your own data. The bar graph needs to have an appropriate title, intervals, and labels. Color each bar the color of the M & M you are graphing.

2. Find the following data for your own actual amounts (*use pages 56 – 58, and p. 41 for definitions*):

Mean: _____ Median: _____

Mode: _____ Range: _____

You may now eat your M & M's. ☺

3. Next, record the amount of pieces for each color for your entire group. Also record your totals on the sheet on the front table.

Group Totals:

Red: _____ Blue: _____ Green: _____

Orange: _____ Brown: _____ Yellow: _____

Part B:

1. Record the total amount of pieces for each color the entire class has.

Class Totals:

Red:

$P(R) = \underline{\hspace{2cm}}$

Blue:

$P(B) = \underline{\hspace{2cm}}$

Green:

$P(G) = \underline{\hspace{2cm}}$

Orange:

$P(O) = \underline{\hspace{2cm}}$

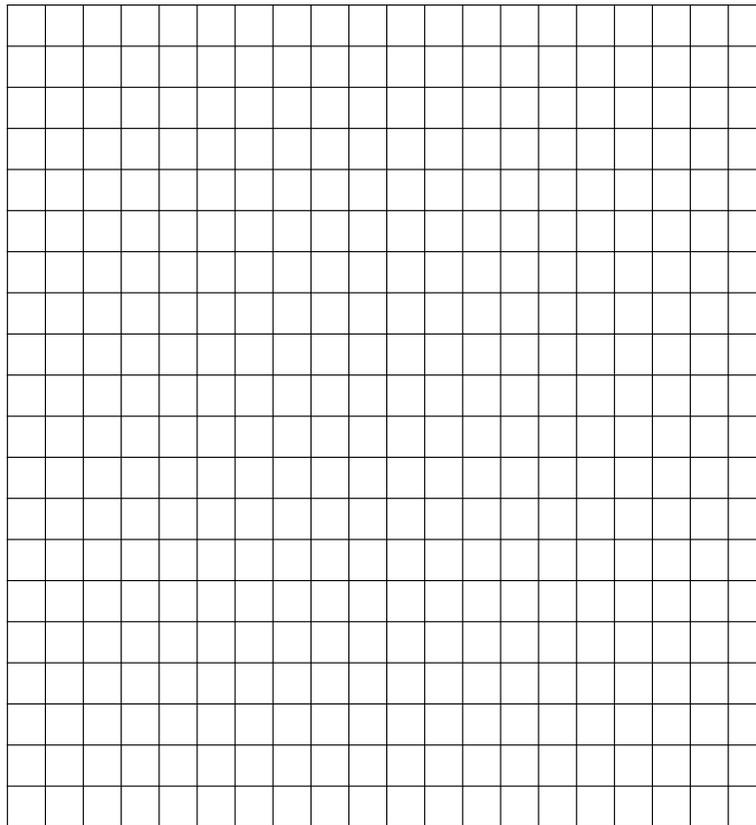
Brown:

$P(BR) = \underline{\hspace{2cm}}$

Yellow:

$P(Y) = \underline{\hspace{2cm}}$

2. Using the above data, make a bar graph of our class data. The bar graph needs to have an appropriate title, intervals, and labels. Color each bar the color of the M & M you are graphing.



3. Find the following data items for the class data:

Mean:

Median:

Mode:

Range:

4. How does the class data compare to your individual bag of M&M's data? Give specific values.