M & M Lab Report

1.   Please put numbers(1-6) beside the step and prove you know correct order generally used for the Scientific Method.

_____Hypothesis   _____Conclusion   _____Research

_____Analysis   _____Purpose   _____Experiment

2.   No matter which Scientific Method you use, the first step will always be having a _____ or a problem.

3. *Use the situation below to test your knowledge on the Scientific Method. Read the sentence below and match the steps that best fit each part of problem.*

In 1872, a wealthy railroad tycoon named Leland Stanford (Stanford University is named after him) made a bet with a friend about a galloping horse.

  A) Ask a question   B) List materials needed
  C) Analyze the results   D) Perform the experiment
  E) Decide the steps in the procedure
  F) Draw a conclusion   G)Form a hypothesis

____   Mr. Stanford <u>guessed</u> that the hooves of a galloping horse don't touch the ground at some point in time during the gallop.

____   A racehorse, a jockey and a camera.

____   Some of the pictures <u>showed</u> the horse's hooves were all in the air at the same time. Mr. Stanford won his bet.

____   Leland Stanford <u>made a bet</u> that the hooves of a galloping don't touch the ground at some point in time.

____   Mr. Stanford <u>asked</u> a photographer to take pictures of a horse galloping at the racetrack.

____   The jockey <u>rode</u> the galloping horse around the racetrack.

____   Mr. Stanford <u>looked at</u> the pictures the photographer brought him.

The word **science** is taken from a Latin word meaning _____.

Name 2 branches of Science.

                _____   _____

List a two ways to gain knowledge.

_____   _____

What was the **Purpose** of the M & M experiment?

After completing the M & M experiment and analyzing the data we came to a

Conclusion. What was it?

Please use the data below to find the average amount of M & M's for all 5 bags.
Round answer to nearest tenth decimal.

M&M Color	Period 1 - Bag 1	Period 2 - Bag 2	Period 3 - Bag 3	Period 6/7 - Bag 4	Period 9 - Bag 5
Blue	64	94	106	102	103
Red	50	40	47	54	35
Yellow	56	62	44	48	41
Orange	83`	65	91	97	96
Brown	49	45	57	54	70
Green	98	88	72	53	62
Total					
Average					

Next, make a graph using the data above. Please make sure to mark your increments, include labels for both axis, title for graph and use different colors for different data groups.

_____

_____

Name: _____