

Ma 084 ~ Descriptive Statistics PreTest Study Guide

For this test, you will have to demonstrate proficiency in the following skills:

- Finding the mean, median, mode, and range of a set of data.
- Figuring out the number of possible combinations there are in a set (Ex: 5 kinds of ice cream, 3 toppings, and waffle or sugar cone yields how many different treats?)
- Figuring out the probability that a certain outcome or set of outcomes will occur in a given situation (Ex: Flip a coin 3 times. What is the probability of getting all 3 heads? Or given 4 red, 4 white, and 4 blue balls in a bag, what is the probability of drawing a red? The answers to all of the above will be *fractions*.)
- Figuring out the probability if you have 2 independent outcomes that *both* of them will happen or that *either* of them will happen. (Ex: Flip a coin and roll a die at the same time. What is the probability that you will get heads and a six? What about heads or a six?)
- Knowing the difference between theoretical probability and experimental probability.
- Interpreting data presented with a Bar Graph.
- Interpreting data presented with a Pie Graph.
- Interpreting data presented with a Line Graph.
- Interpreting data presented with a Stem and Leaf Graph (with these you can find the exact median, range, and mode of the data).
- Interpreting data presented with a Histogram.
- Interpreting data presented with a Box and Whisker Graph (with these you can find the exact median and range of the data, as well as where 25% above and below the median fall—the 50% at the center).
- Applying any of the above to a real-world situation.