

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?)
- Correctly placing an ordered pair on the coordinate plane
- Classifying triangles according to angles and sides (equilateral, isosceles, scalene/acute, right, obtuse) (*review from 082*)*
- 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

**In order to do the problems with the classifying triangles, you will first plot the 3 vertices of the triangle onto a coordinate plane. If you do not have any graph paper handy, you could print this sheet and have it with you to sketch the graph. There is some available in the lab if needed.*

