Chapter 7 Study Guide

* Know the definition of discrete and continuous variable. Be able to discern examples of each.
* Know the definition of a discrete probability distribution.
* Know the characteristics of a binomial distribution and a geometric distribution. Be able to recognize both types from a given scenario.
* Be able to answer questions based on a discrete probability distribution table. Be able to calculate the mean and the standard deviation from a probability distribution table.
* Know the formula for a geometric distribution, mean for a binomial distribution and standard deviation for a binomial.
* Know the mean and standard deviation for a standard normal distribution.
* Be able to calculate probabilities using the standard normal distribution.
* Be able to calculate a z-score.
* Be able to calculate an expected value.
* Be able to explain the process of using the normal probability table.
* Be able to calculate a binomial probability and a normal probability showing AP expected level of explanation.
* Be able to do an inverse normal calculation.
* Be able to find the mean of a linear equation.