Chapter 7 Learning Targets

* I can describe a numerical random variable as either discrete or continuous.
* I can list the possible values for a random variable.
* I can create a probability distribution for a discrete random variable and answer questions based on that distribution.
* I understand that P(a ≤ x ≤ b) is the same as P(a < x < b) for a continuous probability distribution.
* I can calculate the mean and standard deviation for a random variable and use the correct symbols.
* I understand the term expected value.
* I can calculate the mean and standard deviation/variance of a linear function.
* I can determine if a probability distribution is binomial (know the properties).
* I can calculate a binomial probability using both the calculator and the table.
* I can calculate the mean and the standard deviation of a binomial random variable.
* I can use the formula to calculate a geometric probability.
* I know the properties of a standard normal distribution.
* I can calculate a normal probability using both the calculator and the table.
* I can work backwards to find a value when given the probability.
* I can construct a normal probability plot and use it to check for normality.