

CHAPTER 5: Discrete Probability Distributions

Learning Objectives

After reading this chapter and doing the exercises, you should be able to:

1. Understand the concepts of a random variable and a probability distribution.
2. Be able to distinguish between discrete and continuous random variables.
3. Be able to compute and interpret the expected value, variance, and standard deviation for a discrete random variable.
4. Be able to compute and work with probabilities involving a binomial probability distribution.
5. Be able to compute and work with probabilities involving a Poisson probability distribution.
6. Know when and how to use the hypergeometric probability distribution.