

Probability and Binomial Distributions

Learning objectives

This is an introductory unit on discrete probability distributions and is an important stepping stone before moving on to the Poisson distribution. After completing this unit you should

- understand the concept of a random variable
- be able to determine the expectation and variance of a random variable for a discrete distribution
- understand how to find the expectation and variance of a discrete uniform distribution
- be able to recognise when to use the Binomial distribution
- understand how to find the mean and variance of the distribution
- be able to apply the Binomial distribution to a variety of problems.