Mean

Variance

Standard deviation

Permutation

Combination

Conditional Probability of event A, given that event B occurred

The multiplicative law of probability

A success occurs on or before the nth trial

A success occurs before the nth trial

A success occurs on or after the nth trial

A success occurs after the nth trial

Probability distribution for a discrete variable y

Expected Value of discrete random variable

Variance of a discrete random variable

Binomial distribution of a random variable based on n trials a success probability p

Mean of Binomial Distribution

Variance of Binomial Distribution

Geometric Probability Distribution

Geometric Probability Distribution Mean

Geometric Probability Distribution Variance

Hypergeometric Probability Distribution

Poisson probability distribution

Tchebysheff’s Theorem

Preconditions of a Distribution Function

How to convert distribution function to probability density function (pdf)

Expected Value of a continuous random variable Y is

Uniform Distribution Function

If Y1 and Y2 are jointly continuous random variables with a joint density function f(y1,y2)

Marginal Probability Functions of y1 and y2

Conditional Discrete Probability Function