STATS FORMULAS

Variance:

STD:

Permutation:

Combination:

Probability of Intersection of Two Events:

Chance of A and B occurring relative to S:

**If A and B are independent:**

**Dependent:**

General Addition Rule: A or B occurring relative to S

A and B are mutually exclusive, P(A∩B)=0:

Total Probability:

Bayes’ Theorem with P(A)>0 and P(B)>0:

If 0<P(B)<1: P(B|A)=

Probability Mass Function:

Expected:

Variance:

Binomial Distribution:

Geometric Distribution:

Success occurs on or before nth trial:

Success occurs before the nth trial:

Success occurs on or after nth trial:

Success occurs after the nth trial:

Hypergeometric Probability Distribution:

Poisson Probability Distribution: p(y) =