**P(x) = nCx px (q)n-x**

**n = The number of experiments**

**x = 0,1,2,3,4…**

**p = Probability of Success in a single experiment**

**q = Probability of Failure in a single experiment (1-p)**

**nCx = n! / x!(n - x)!**

**p = 1 – q**

**q = 1 - p**