|  |  |
| --- | --- |
| **Name of Formula:** | **Formula:** |
| **Mean** |  |
| **Variance** |  |
| **Standard Deviation** | or |
| **Multinomial Coefficients** |  |
| **Permutations** |  |
| **Combinations** |  |
| **Conditional Probability** |  |
| **Two events A and B are independent if:**  **Otherwise, dependent** |  |
| **Multiplicative Law of Probability** |  |
| **Additive Law of Probability** |  |
| **Bayes’ Rule** |  |
| **Expected Value of Y** |  |
| **Binomial Distribution** |  |
| **Geometric Probability Distribution** |  |
| **Y is a random variable with geometric distribution** |  |
| **Hypergeometric Probability Distribution** |  |
| **Poisson Probability Distribution** |  |
| **Tchebysheff’s Theorem** |  |
| **Probability Distribution for Continuous Random Variable** |  |
|  |  |