Percentile is not a measure of central tendency, but is a curve to assist in identifying central tendencies

**Binomial:** Does NOT require the use of the natural logarithmic base for calculation

**Binomial:** Determining the lower limit on success at a desired confidence level for n tests with f failures

**Binomial:** The sum of the exponents of each term after expansion is equal to the sample size

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| --- | --- | --- | --- | --- |
|  | When to use | Media | Deviation | To Describe |
| Bi nomial | N>50  n< 0.1 N  p>= 0.1  np > 5 (Normal) | np |  | Data with replacement |
| Poisson | p<= 0.1  n>=16  np = 4 or 5 | np | Variance = Media | Data with replacement with low probability mean |
| Hypergeometric | N: total r : x  d: success  n: sample (small) |  |  | sampling from a finite population without replacement |
| Exponential | Describe time between independent failures in constant rate |  | The mean =    |  |