Binomial Distribution

→ Conditions for binomial distribution

1. No. of trials are finite

2. There are only two outcomes - 'success' and 'failure'

3. The probability of success is constant

4. The probability of success is independent of other trials

Probability of success = p

" " failure = q

$$q = 1-p$$

$X \sim B(n,p)$ $\sim$ means = "defined as"

n - number of trials

p - prob of success

$$p(X = x) = {}^nC_x \, p^x \, q^{n-x}$$