

Binomial Probability Formula

- The probability of exactly x successes in n trials is

$$P(x) = {}_n C_x p^x q^{n-x} = \frac{n!}{(n-x)!x!} p^x q^{n-x}$$

n = number of trials

p = probability of success

$q = 1 - p$ probability of failure

x = number of successes in n trials

Note: number of failures is $n - x$

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