$$P_x = \binom{n}{x} p^x q^{n-x}$$

= binomial probability

= number of times for a specific outcome within n trials

= number of combinations

= probability of success on a single trial p

= probability of failure on a single trial

= number of trials

$$P_{3} = \left(\frac{6}{3}\right) 0.1^{3} 0.5^{3}$$

35.42-1.94-0.14 => 34.53 %

$$P = \left(\frac{N}{X}\right) P^{X} g^{N-X}$$

$$\left(\frac{\times}{N}\right) = \frac{1}{N} \frac{d}{d}$$

$$\left(\frac{\cap}{\times}\right) \times g^{N-\times} = \frac{7^{\times}}{P}$$

$$(\frac{n}{2}) \times 0.990317^{\frac{n}{2}} = 0.0004842456$$

$$P_x = \binom{n}{x} p^x q^{n-x}$$

P = binomial probability

x = number of times for a specific outcome within n trials

 $\binom{n}{x}$  = number of combinations

p = probability of success on a single trial

q = probability of failure on a single trial

n = number of trials

