

Probability Distribution – Discrete Variable – Formula Sheet

$$P(x) = \frac{1}{n}$$

$$E(X) = x_1P(x_1) + x_2P(x_2) + \dots + x_nP(x_n)$$

$$P(x) = {}_n C_r p^x q^{n-x} \qquad E(X) = np$$

$$P(x) = q^x p \qquad E(X) = \frac{q}{p}$$

$$P(x) = \frac{{}_a C_x \times {}_{n-a} C_{r-x}}{{}_n C_r} \qquad E(X) = \frac{ra}{n}$$