

Formulas Provided on Midterm Exam 3

$$\mu = \sum[X \cdot P(X)]$$

$$\sigma^2 = \sum[X^2 \cdot P(X)] - \mu^2$$

$$P(X) = \frac{n!}{(n-X)! X!} \cdot p^X \cdot q^{n-X}$$

$$\mu = np$$

$$\sigma^2 = npq$$

$$z = \frac{X - \mu}{\sigma}$$

$$X = \mu + z\sigma$$