

Formulas Provided on Midterm Exam 1

$$\mu = \frac{\Sigma X}{N}$$

$$\bar{X} = \frac{\Sigma X}{n}$$

$$MR = \frac{\text{highest} + \text{lowest}}{2}$$

$$R = \text{highest} - \text{lowest}$$

$$\sigma^2 = \frac{\Sigma(X - \mu)^2}{N} = \frac{N(\Sigma X^2) - (\Sigma X)^2}{N^2}$$

$$s^2 = \frac{\Sigma(X - \bar{X})^2}{n - 1} = \frac{n(\Sigma X^2) - (\Sigma X)^2}{n(n - 1)}$$

$$CVar = \frac{\sigma}{\mu} \cdot 100\%$$

$$CVar = \frac{s}{\bar{X}} \cdot 100\%$$