STAMS - Statistics Package

1. Mean

$$Mean = \frac{\sum_{i=1}^{n} x_i}{n}$$

2. Median

If the number of data points is odd:

$$Median = x_{\frac{n+1}{2}}$$

If the number of data points is even:

$$Median = \frac{x_{\frac{n}{2}} + x_{\frac{n}{2}+1}}{2}$$

3. Modus

$$Mode = value\ with\ the\ highest\ frequency$$

4. Population Variance (σ^2)

$$\sigma^2 = \frac{\sum_{i=1}^{N}(x_i - \mu)^2}{N}$$

5. Sample Variance (s^2)

$$s^2 = \frac{\sum_{i=1}^{n}(x_i - \bar{x})^2}{n-1}$$

6. Population Standard Deviation (σ)

$$\sigma = \sqrt{\frac{\sum_{i=1}^{N}(x_i - \mu)^2}{N}}$$

7. Sample Standard Deviation (s)

$$s = \sqrt{\frac{\sum_{i=1}^{n}(x_i - \bar{x})^2}{n-1}}$$