Admin Notes

- Two reviews: Trevor and Sophia
- Zero Point quiz - peer graded.
- Bonus point tracker
- Assigning Project I on Tomorrow
- Course survey (in class - 5 mins) and instructor survey (out of class)

1 Review

2 Standard Deviation Discussion

Definition 1.3.4 (Standard Deviation)
The *standard deviation* of a sample of n observations $(x_1, x_2, ..., x_n)$ is given by

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

The corresponding population standard deviation is denoted σ. [2]

Figure 1: Standard Deviation

3 Instructor will demonstrate how to make a histogram in excel for set 1, then change bins.

4 Work on Board Sheet

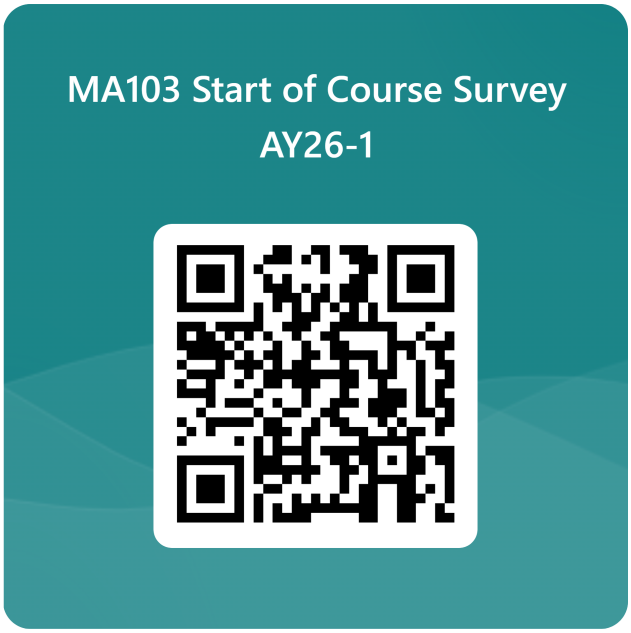

Figure 2: Course Survey

Definition 1.3.3 (Median)
The *median* of a sample of n observations $(x_1, x_2, ..., x_n)$ is given by

$$\tilde{x} = \begin{cases} \left(\frac{n+1}{2}\right)^{\text{th}} \text{ ordered value} & , n \text{ is odd} \\ \text{average of the } \left(\frac{n}{2}\right)^{\text{th}} \text{ and } \left(\frac{n}{2}+1\right)^{\text{th}} \text{ ordered values} & , n \text{ is even} \end{cases}$$

The corresponding population median is denoted $\tilde{\mu}$. [2]

Figure 3: Median