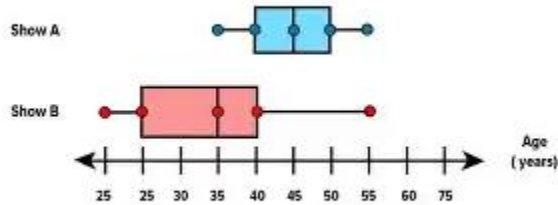# Session 2 Worksheet

Formulas

$$IQR = Q_3 - Q_1 \quad Step = 1.5 \times IQR \quad LF = Q_1 - Step \quad UF = Q_3 + Step \quad z = \frac{x - \bar{x}}{s}$$

A) Based on the box plot answer the following questions

1. What is the five number summary for show A?

2. What is the five number summary for show B?

3. If show B had a 60 year old watching would this be considered an outlier? Assume the standard deviation is 2.

B) Create a modified box plot from the dataset below.

10, 12, 13, 13, 14, 15, 15, 16, 20, 21