SECONDARY MATH III
STATISTICS UNIT
WS 12.6 STATISTICAL MEASURES

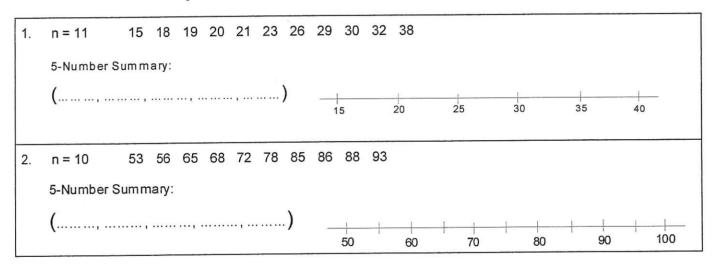
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To draw a boxplot, you need to find the five values: minimum,  $Q_1$  (first quartile), median,  $Q_3$  (third quartile) and the maximum. Then draw an appropriate scale and make the boxplot. The minimum, median and maximum should not be difficult to find. Finding the quartiles is more work:

- (1) First, make sure numbers are in increasing order.
- (2) Locate the median (or solve for the median)
- (3) To find Q<sub>1</sub> (first quartile): Find the median of ALL values that are below the median.
- (4) To find Q<sub>3</sub> (third quartile): Find the median of ALL values that are above the median.

Note: NEVER include the actual median in the data when finding the quartiles.

Find the 5-number summary and draw the boxplot for each data set.



## **OUTLIERS**

