

3) Create a frequency distribution for the data **Using 5 intervals**

INTERVAL	FREQUENCY

4) Create a histogram

HISTOGRAM



XMin = _____ XMax = _____ . XScI = _____

YMin = _____ . YMax = _____ . YScI = _____

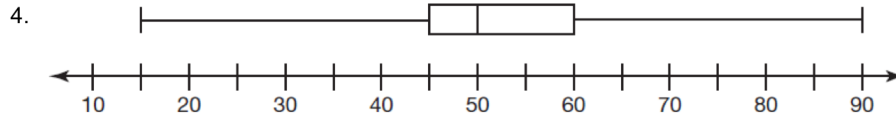
Calculate the five number summary for each data set. Identify if the data set contains any outliers and construct a box and whisker plot to display the data.

Calculate the upper fence (the upper boundary for outliers)

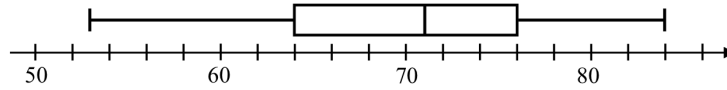
Calculate the lower fence (the lower boundary for outliers)

, find any outliers that may exist and then draw a modified boxplot.

From **box and whisker plot**, identify whether the data contains any outliers.



Exercise #5: Twenty of Mr. Greco's physics students recently took a quiz. The results of this quiz are shown in the following box-and-whiskers diagram. Assume that all scores are whole numbers.



- (a) What was the median score on Mr. Greco's math quiz? (b) What was the range of the scores on Mr. Greco's math quiz?
- (c) What score was greater than or equal to 75% of all other scores on this quiz? (d) Mr. Greco regularly sets the passing grade on his quizzes to be the score of the lower quartile. What is the passing grade on this quiz?

Exercise #6: Which of the following box-and-whiskers diagram shows a data set with the greatest median?

