




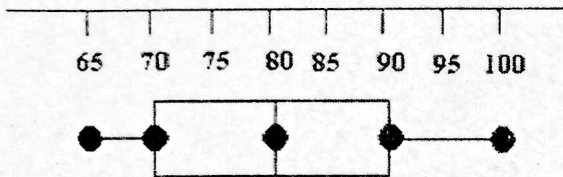
# Unit 5: Inferences

Standard Code	Standard			
SP.1	I can explain how statistics about a sample can be used to describe a population.			
	I can explain what conditions need to be met for a sample to be a representation of a population.			
	I can explain that random sampling tends to produce representative samples and support valid inferences.			
	I can analyze whether a sample is representative of a population.			
SP.2	I can identify an appropriate sample size			
	I can draw inferences from a random data sample from a table or graph.			
	I can draw inferences from a random data sample without a table or graph.			
	I can collect and use multiple samples of data to make generalizations about population.			
	I can generate multiple samples of the same size to gauge the variations in estimates or predictions.			
SP.3	I can identify measures of central tendency (mean, median, and mode) in a data distribution.			
	I can identify measures of variation including upper quartile, lower quartile, upper extreme-maximum, lower extreme minimum, range, interquartile range from box-and-whisker plots, line plot, dot plots, etc.			
	I can use the median to compare two data sets.			
	I can observe the overlap and differences of two data sets with similar variability.			
	SP.4	I can find measures of central tendency (mean, median, and mode) and measures of variability (range, quartile, etc.).		
I can analyze and interpret data using measures of central tendency and variability.				
I can draw informal comparative inferences about two populations from random sample.				
I can compare two sets of data using measures of center (mean, median, mode) and measures of variability (IQR).				

1. Identify the mean, median and range of the data: 5, 8, 3, 9, 4.

mean \_\_\_\_\_ median \_\_\_\_\_ range \_\_\_\_\_

2. Using the graph below, identify the minimum, maximum, median and lower & upper quartiles.



Min \_\_\_\_\_

Max \_\_\_\_\_

Med. \_\_\_\_\_

Lower \_\_\_\_\_

Upper \_\_\_\_\_

3. Create a box & whisker plot from the data: 3, 7, 8, 5, 12, 14, 21, 13, 18.

4. What is the median of the stem and leaf plot below?

Stem	leaf
1	2, 4, 8
2	3, 3, 5
3	2, 5

Median \_\_\_\_\_