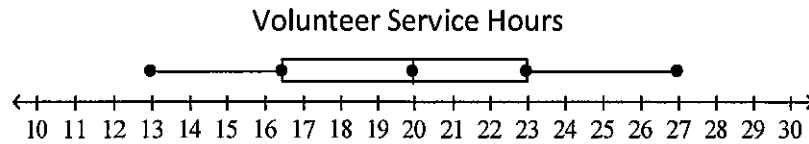
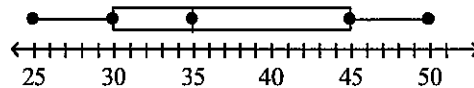


Box & Whisker Plot Worksheet 1

1. The box and whisker plot below shows the volunteer service hours performed by students at Indian Trail Middle School last summer.



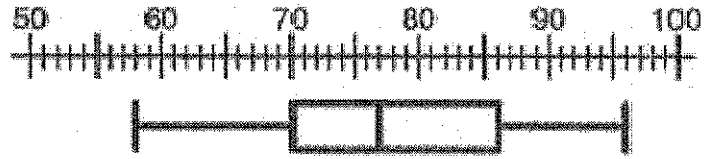
- What is the median of the data set?
 - What is the **lower quartile** of the data set?
 - What is the **upper quartile** of the data set?
 - What percentage of data is between the lower quartile and the upper quartile?
2. What is the median of the following box and whisker plot? What percentage of the data is below the median?



3. The five values that make up a box and whisker plot are:

4. The five values in question 3 are called the _____.

5. What is the five number summary of the following box and whisker plot?



6. Create a box and whisker plot with the following set of data: 3, 2, 3, 4, 6, 6, 7



7. Create a box and whisker plot with the following set of data: 1, 2, 5, 6, 9, 12, 7, 10



8. Find the mean, median, mode, and range of the following set of data:

7, 6, 2, 7, 8, 3, 12, 9, 7, 4, 6, 7, 11

Name: _____
Mr. Art

Date: _____
Period: _____

Interpreting Box-and-Whisker Plots

1) Below are the prices of snowboards at two competing snowboard stores:

Middletown Snowboards
345, 350, 356, 360, 375, 405

Snowboard Central
343, 370, 386, 392, 395, 402

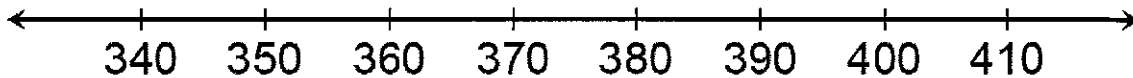
a) Identify the 5 main statistics of each set of data.

Middletown Snowboards

Snowboard Central



b) Draw a double box-and-whisker plot of the above data on the scale below:



c) What is the median price for a snowboard at Middletown Snowboards?

What is the lowest price you could pay for a snowboard at Snowboard Central?

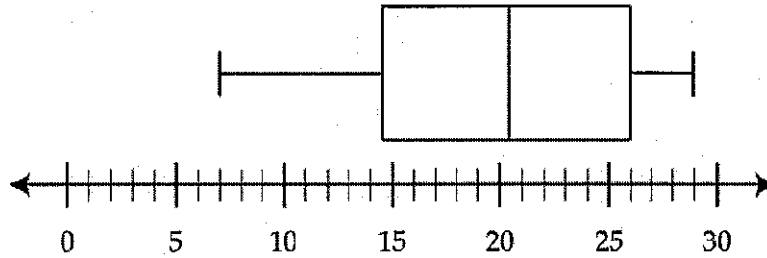
What is the most expensive board at Middletown Snowboards?

What is the range of prices for snowboards at Snowboard Central?

Which price represents the 75th percentile for Middletown Snowboards?

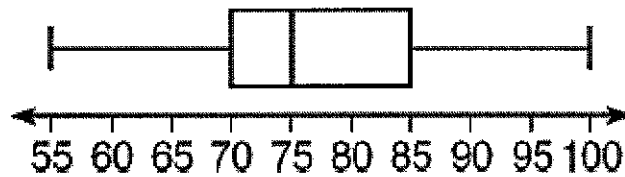
Which store would you rather buy a snowboard from? Why?

2) The accompanying box-and-whisker plot represents the cost, in dollars, of twelve CD's.



- a) Which cost is the upper quartile?
- b) What is the range of the costs of the CD's?
- c) What is the median?
- d) Which cost represents the 100th percentile?
- e) How many CD's cost between \$14.50 and \$26.00?
- f) How many CD's cost less than \$14.50?

3) The accompanying box-and-whisker plot represents the scores earned on a math test.



- a) What is the median score?
 (1) 75 (2) 70 (3) 85 (4) 77
- b) What score represents the first quartile?
 (1) 55 (2) 70 (3) 100 (4) 75
- c) What statement is *not* true about the box and whisker plot shown?
 (1) 75 represents the mean score (3) 85 represents the 3rd quartile
 (2) 100 represents the maximum score (4) 55 represents the minimum score
- d) A score of an 85 on the box-and-whisker plot shown refers to:
 (1) the third quartile (3) the maximum score
 (2) the median (4) the mean