NAME:					
	Mean.	Median.	Box &	Whisker	Plots

## Data Set 1:

In a park that has several basketball courts, a student counts the number of players playing basketball each day over a two-week period and records the following data.

10, 90, 30, 20, 50, 30, 60, 40, 70, 40, 30, 60, 80, 20

## Data Set 2:

In another park that has several basketball courts, another student counts the number of players playing basketball each day over a two-week period and records the following data.

50, 40, 30, 30, 40, 50, 50, 30, 40, 50, 60, 60, 50, 50

How are the two data sets similar and how are they different?

Mean  $(\mu)$  data set #1 = Mean  $(\mu)$  data set #2 =

Median data set #1 = Median data set #2 =

Mode data set #1 = Mode data set #2 =

Range data set #1 = Range data set #1 =

## Make Box and Whisker Plots for each set of the basketball data.

## Data Set #1

Median: Lower Quartile: Upper Quartile: Lower Extreme: Upper Extreme:				Inter-Quartile Range: 3 <sup>rd</sup> Quartile Value: 1 <sup>st</sup> Quartile Value: Range:							
	0	10	20	30	40 E	50 Data Se	60 et #1	70	80	90	100
<b>Data S</b> Media						Inter	-Ouar	tile Ra	inge:		
Median: Lower Quartile:				Inter-Quartile Range:  3rd Quartile Value:							
Upper Quartile:				1 <sup>st</sup> Quartile Value:							
Lower Upper						Rang	ge:		_		

How to Make a Box and Whisker Plot:

0

1. Put all numbers in numerical order.

10

2. Find the Median of all the numbers. (Median)

20

3. Find the Median of the lower set of numbers. (Lower Quartile or Quartile 1)

30

40

- 4. Find the Median of the upper set of numbers. (Upper Quartile or Quartile 3)
- 5. Find the Smallest number. (Lower Extreme)
- 6. Find the Largest number. (Upper Extreme)
- Plot all of the above points on the number line. Draw a box around the Lower and Upper Quartiles and Whiskers out to the Extremes.

50

Data Set #2

70

80

90

100

60