Unit 7 - Statistics Box and Whisker Plot Notes

Name: \_\_\_\_\_\_ Period: \_\_\_\_\_

Main Ideas/Questions	Notes/Examples		
	A graphic format used to display the median, quartiles, and extremes of a data set		
	on a number line that shows the distribution of the data		
Box and Whisker	Lower Upper Lower Quartile Upper Evtreme I Madian I Extreme		
Plat			
1101			
	0 10 20 30 40 50 60 70 80 90 100		
	The values used to create the box and whisker plot:		
<b>_</b>	<u>Minimum value:</u> the smallest value in the data set		
Five-Number	• Lower Quartile $(Q_1)$ : median of the lower half of the data set		
Summany	<u>Median:</u> the value in the middle when the data is ordered from least to     greatest		
Summary	• Upper Quartile $(\Omega_2)$ : median of the upper half of the data set		
	<ul> <li>Maximum Value: the largest value in the data set</li> </ul>		
Quantilat	• $Q_1$ - lower quartile is the left edge of the box		
Quartiles	• $Q_3$ – upper quartile is the right edge of the box		
Interquartile Dance	• upper quartile – lower quartile <b><i>OR</i></b> $Q_3 - Q_1$		
Interquar the Range	• $Q_1$ to $Q_3$ (box) represents 50% of the data set		
	1. The resting heart rates, in beats per minute (bpm), of a group of people are given below. Find the five-number summary, draw the box and whisker plot, and then answer the questions that follow.		
	<i>{</i> 55, 72, 64, 58, 50, 62, 70, 84, 92, 76,	, 68, 60}	Minimum:
	Lower Quartile: Median: Upper Quartile:		
	a) What is the range?     b) What is the interquartile range?		
Drawing Box and			nterquartile range?
Whisker Plots			
	c) What percent has a resting heart rate d) What percent have a resting heart		nt have a resting heart
	less than 66 bpm?rate of no more than 74 bpm?e) What percent have a resting heartf) What percent has a resting heart rate		
	rate between 50 and 59 bpm? between 66 and 92 bpm?		d 92 bpm?



