## BoxPlot Exploration(C) A.P. Statistics

Name	2							_		D	ate .			F	er	
Consi year.	der t	he foll	owing s	set of (	data, t	est sc	ores fi	rom an	AP S	stat te	est c	during	g the i	2006	scho	ol
		66 72	74 69	68 80	76 67		82 70	68 79				75 87				
1.	Calc	ulate t	he five	e-numb	er sun	nmary	and re	cord b	elow.							
M	in			$Q_1$		_	Med	d		Q	з —			M	ax	
	Dra	there w a box ne 5-nu	kplot o	n your	calculo	ator an								e scal	le anc	l mark
		cribe t			•	·					ata				, ,	
6.	Who	at info	rmatio	n is nev	v from	ı the p	lot the	it was	not o	bvious	or	show	n on t	he bo	×plot	;}

7. Using the boxplot, what values make up the middle 50% of the data?

8.	It is easy to find the middle 50% of the values on your new plot? Why or why not?
9.	Without using the graphing calculator, estimate where the mean is on both graphs? Mark this value using a vertical line (on both graphs) using a pen or colored pencil.
10	. Now, calculate the mean and record Compare this with the estimate from your graphs and compare.
11.	. What do the values of $Q_1$ and $Q_3$ tell you about the distribution of the data?