NAM	E:						HW 10.3		
DATE:					ALGEBRA				
1. Identify the first quartile for the following data set.									
	32, 24, 38, 26, 38, 36, 37, 39, 23, 40, 21, 31								
	a.	21	b.	25	C.	32	d.	34	
2.	The valu	interquartile e could be th	e rang ne mec	e of a data so lian?	et is 18	3. The first q	uartile	e is 52. Whic	:h

a. 25 b. 34 c. 61 d. 97

3. This is a box-and-whisker plot for 60 test scores. The upper quartile is:



4. Find the interquartile range for this set of children's heights (in centimeters).

147, 130, 160, 150, 152, 120, 121, 125, 128, 121, 140, 142, 134, 126

a. 7 b. 22 c. 33 d. 40

5. These box-and-whisker plots show test scores for two classes. Which statement is false?



- a. The interquartile range is greater for class A than for class B.
- b. The second quartile is higher for class B than for class A.
- c. The lowest score was in class A.
- d. Class A did better than class B.

6 – 7 Use this data set for the following questions.

60, 62, 69, 76, 62, 78, 64, 71, 68, 74, 87, 81, 72, 83

6. Find the five-number summary.

7. Construct a box-and-whisker plot.

8 – 9 Use this data set for the following questions.

71, 75, 67, 80, 67, 30, 73, 69, 71, 68, 74, 68, 74, 72, 71

8. Find the five-number summary.

9. Construct a box-and-whisker plot.

10. In a box-and-whisker plot, what percentage of the scores are represented by the box?

11. In a box-and-whisker plot, what percentage of the scores are represented by each whisker?

12. Is it possible to have a box-and-whisker plot with only one whisker? Explain your answer.

13. A small data set with similar values is changed by the addition of one outlier. Andrea says that the median would be affected more than the mean. Mary says that the mean would be affected more than the median. Who is correct? Explain why.