Honors Algebra 2 Mean, Median, Mode, Box & Whiskers	Name Hour				
Show your work.					
1. A list of five test scores were: 60, 67, 73, 63 and 67. Find the following:	2. Seven people were asked how many miles they lived from work. The responses were: 15, 7, 14, 21, 5, 9 and 13. Find the following:				
a) Mean	7, 14, 21, 3, 5 and 13. rind the following:				
b) Median	a) Mean				
	b) Median				
c) Mode	c) Mode				
d) Range	d) Range				
3. At a pet store, a survey was taken asking how many pets each person had. The results were: 2, 5, 3, 1, 0, 4, 2, 7, 0, 2, 7, 3. Find the following:	4. A sample of eight students were randomly selected and asked, "How many times did you check your email yesterday?" The numbers were: 3, 0, 8, 7, 10, 2, 6, 12. Find the following:				
a) Mean	a) Mean				

b) Median

c) Mode

d) Range

b) Median

c) Mode

d) Range

# 5. A student had taken six tests and received scores of 88, 73, 81, 83, 79, 94.

- a) The seventh test was coming up and the student wanted to know what he needed on the seventh test to have a mean score of 83. Find the seventh test score (x).
- b) Find the median and mode including the seventh test score from part a.

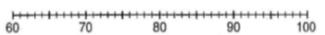
Median:

Mode:

#### 6. Use the test scores to find the following:

TEST SCORES								
82	86	89	84	78	82	92		
95	5 77 69 98		95	63	73			

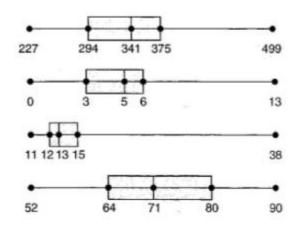
- a) the median
- b) the lower quartile
- c) the upper quartile
- d) make a box and whisker



e) what percent of scores is between the upper and lower quartile?

### 7. Match each description with the most reasonable box and whisker plot.

- a) season scores of a baseball team
- b) resting heart rate (beats per minute)
- c) prices of a 25 inch TV(\$)
- d) ages at a Boy Scout meeting



- 8. Test scores on a recent math test were: 81 79 80 88 88 90 100 56 70 68 67 64 90 88 85 81 60 78
- 9. Suppose that one family kept track of how many DVDs they rented each month for a two year period. The numbers for each month are shown in the tables below.

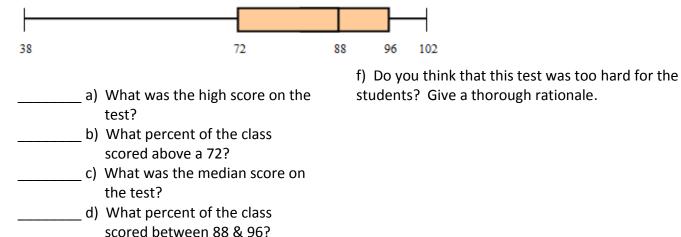
		м 1				
		м 10				

1st quartile: \_\_\_\_\_ Median: \_\_\_\_ 3rd quartile: \_\_\_\_ Minimum: \_\_\_\_ Maximum: \_\_\_\_

Make a box-and-whisker plot of the data set:

Make a box & whisker graph from this data.

10. Refer to the box & whisker graphs below that shows the test results of a math class.



e) Would you expect the mean to be above or below the median? Explain.

#### Refer to the box & whisker plots below comparing homework time per night with TV time per night

## TV & Homework Minutes per Night

