(wide Name:

_____ Date: ___

Find the mean, median, mode, range, upper quartile, lower quartile, and interquartile range. Then draw a box and whiskers plot.

23, 6, 8, 14, 28, 8, 13, 28

48, 23, 97, 36, 27, 72, 48, 41, 58

10. Put the data in order:

1. Put the data in order:

6,8,8,13,14,23,28,28

6 2. Mean: culculator

13,5 3. Median: calculator

8 2-28 4. Mode: Both showed up twice

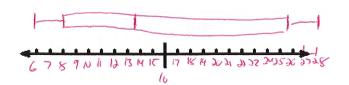
 $\frac{\partial \lambda}{\partial x}$ 5. Range: $\frac{\partial x}{\partial y} = 6$

8 6. Upper Quartile: Calculator

25,5 7. Lower Quartile: Calculator

7, 5 8. Interquartile Range: 25.5 - 8

9. Box and Whisker plot:



19. Is there an outlier? (Show Work)

$$8-1.5(17.5) = -18.25$$

25.5+1.5(17.5) = 51.75
21. Determine the MAD.

1/= = 16 2+3) 10,18,18, 3, 2, 7, 12, 12 9)628= 7.75/

11. Mean:

_12. Median:

_13. Mode:

14. Range:

15. Upper Quartile:

16. Lower Quartile:

17. Interquartile Range:

18. Box and Whisker plot:



20. Is there an outlier? (Show Work)

22. Determine the MAD.

1. Your scores on the first 4 tests in Algebra were 85, 80, 90, and 93. What do you need to make on the 5th test to have a 90 average in the class?

$$\frac{85 + 80 + 90 + 93 + 7}{5} = 90$$

$$\frac{348 + 7}{5} = 90$$

- 2. Which measure of central tendency is MOST EASILY affected by outliers?
- 3. The table below shows the running times for science-fiction movies. Find the Mean Absolute Deviation of the data.

	Runnin	g Times	for Movi	es (min)	
98	87	93	88	126	108

$$2+3$$
) 2, 13, 7, 12, 26, 8
4) $65 = 11.33$

4. The table shows the scores from the top 10 players of our Homecoming basketball game.

Which player scored more than the upper quartile of the data?

- A. Matt
- B. Michael
- C. Jim
- D. Bobby

Player	Points	Player	Points			
Michael	12	Dave	9			
Brendan	6	Heath	15			
Andrew	21	Jack	3			
Jim	14 .	Bobby	10			
Andre	5	Matt	18			

For #5-6, use the graph to the right.

- 5. Which statement below is NOT true?
 - A. 2nd period had the highest score on the test \checkmark
 - B. The median for 2nd period is 5 less than the median for 3rd
 - C. The LQ for 2nd period is 5 less than LQ for 3rd period
 - D. The UQ for 3rd period is 94 /
- 6. Fill in the blanks:
 - The median for 2nd period is _____
 - The median for 3rd period is _____
 - The lowest score for 3rd period is ____
 - The lower quartile for 2nd period is ____
 - The spread of the middle 50% for 2nd period is _____

