

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

1. Put the data in order:

2. Mean:

_____ 3. Median:

_____ 4. Mode:

_____ 5. Range:

_____ 6. Upper Quartile:

_____ 7. Lower Quartile:

_____ 8. Interquartile Range:

9. Box and Whisker plot:



19. Is there an outlier?(Show Work)

21. Determine the MAD.

10. Put the data in order:

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.

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

Running Times for Movies (min)					
98	87	93	88	126	108

- 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.

- Which statement below is NOT true?
 - A. 2nd period had the highest score on the test
 - 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
- 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 _____

