Final Exam Review - Unit 4

Name $\qquad$ Class Period

| What you need to know \& be able to do | Things to remember | Problem | Problem |
| :---: | :---: | :---: | :---: |
| Identify the measures of central tendency. | - Mean <br> - Median <br> - Mode | 1. $36,39,58,42,106,39,48,45$ | 2. $50,55,60,58,62,57,68,51,63$ |
| Identify the measures of spread. | - Q1 <br> - Q3 <br> - IQR <br> - Minimum <br> - Maximum <br> - Range <br> - MAD | 3. (Use the same \#s from 1) | 4. (Use the same \#s from 2) |
| Construct a box-and-whisker plot. | - First dot: Min <br> - First Line: Q1 <br> - Middle Line: Median <br> - Third Line: Q3 <br> - Last dot: Max <br> - Outlier: $\begin{aligned} & \text { Q1 - } 1.5(\mathrm{IQR}) \\ & \text { Q3 }+1.5(\mathrm{IQR}) \end{aligned}$ | 5. Using the data from \#1 \& 3, <br> 6. Are there any outliers? Show | onstruct a box and whisker plot. <br> your work! |
| Determine if the situation has a positive, negative, or no correlation and if there is causation. | - Positive: Both items are increasing or both items are decreasing <br> - Negative: one item increases as the other decreases <br> - No Correlation: No relationship <br> - Causation: One item causes the other. | 7. Practicing Free Throws vs. Free Throw Percentage <br> 9. Weight vs. Amount of Exercise | 8. Colors of the Sky vs. Time of Day <br> 10. Number of Followers on Twitter vs. Number of Friends on Facebook |



