Math 1 Unit 3 Project

**You will complete this project for a test grade. You must follow and complete each step to get the maximum score for this project. You can use various resources such as textbook, online videos or online research. The final project can be done as a poster, using web 2.0 tools (ie. Glogster or powerpoint), etc.**

Mr. Clinton needs your help! Below are the 2014 Math 1 scores. Follow the directions and find the measures of central tendency.

|  |
| --- |
| **85 74 92 88 77 65 82 71 60 94**  **36 79 88 87 60 93 84 73 79 89** |

1. 1. Find all of the measures of central tendencies - mean, median, mode, and range.
2. 2. Create a dot plot from the set of data, using intervals of ten.

a. Analyze the results in 2-3 sentences (explain where most of the scores are/how we scored)

1. 3. Create a frequency table and create a histogram using intervals of ten.

a. Label the axes.

1. Create a box-and-whiskers plot from the set of data.

a. Label your minimum, first quartile, median, third quartile, and maximum.

b. Analyze spread by finding the IQR and outliers (if any).

1. Here’s a table displaying the Ashbrook **average** Math 1 scores from previous years.

Let x = 0 for 2010, x = 1 for 2011 and so on.

|  |  |
| --- | --- |
| Year | Score |
| 2010 | 72.1 |
| 2011 | 65.8 |
| 2012 | 77.9 |
| 2013 | 75.3 |

1. Find the line of best fit for the data.
2. Describe the correlation coefficient (r) for the line.
3. Use the equation to predict the score for 2014. (hint x=\_\_\_)
4. Find the difference between the predicted score and the actual score from question 1.

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d) Find the difference between the predicted score and the actual score from question 1.