

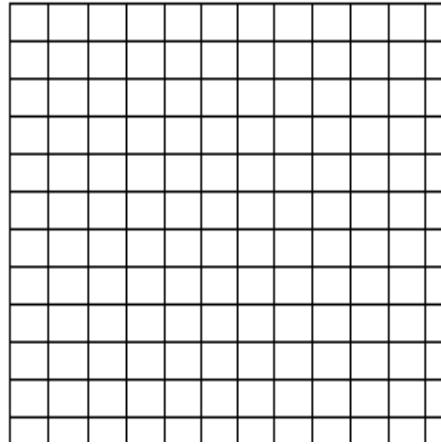
Quiz #3.3

AP Statistics

Name: _____

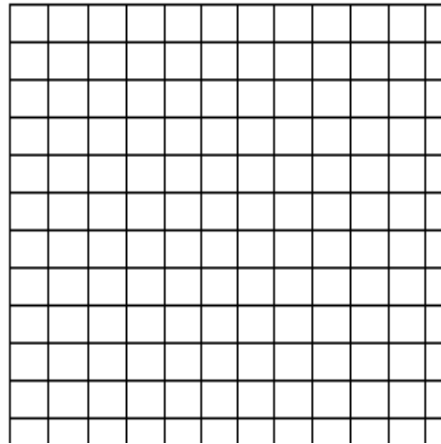
The following table shows progression of the Men's 800 Meter Run World Records:

<u>Year</u>	<u>Time (seconds)</u>
1905	113.4
1915	111.9
1925	111.9
1935	109.7
1945	106.6
1955	105.7
1965	104.3
1975	104.1
1985	101.73
1995	101.73
2005	101.11



1. Construct a scatterplot on the grid provided.
2. Find the LSRL.

3. Calculate the correlation coefficient.



4. Calculate the coefficient of determination.

5. Construct a residual plot on the grid provided.

6. Is the LSRL an appropriate model for this data? Explain.

7. Predict the World Record for the year 2015 using your LSRL.