Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

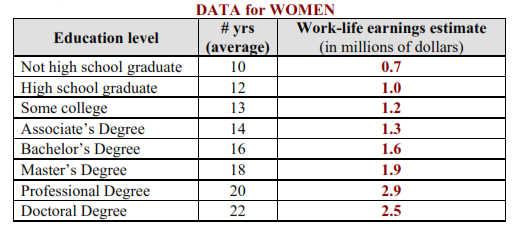
**Scatter plot worksheet**

Correlation calculators:

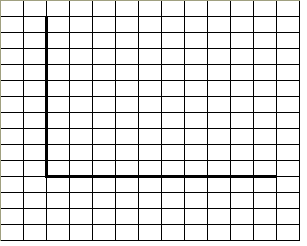
[**http://www.socscistatistics.com/tests/pearson/Default2.aspx**](http://www.socscistatistics.com/tests/pearson/Default2.aspx)

[**http://www.alcula.com/calculators/statistics/correlation-coefficient/**](http://www.alcula.com/calculators/statistics/correlation-coefficient/)

EXAMPLE 1:

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1. Plot the data from the chart above. Pay careful attention to your scales and label your axes.



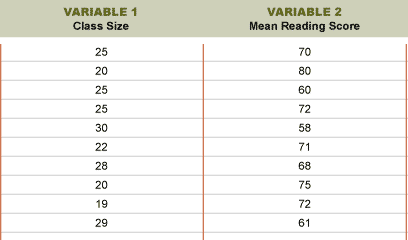
2. Using your graph, do you think there is a positive correlation, a negative correlation or no correlation between a woman’s education level and her work-life earnings estimate?

3. Use one of the correlation calculators to figure out the correlation coefficient of the 2 variables.

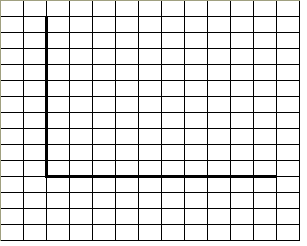
*r*=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4: Was your prediction (from #2) correct? How do you know?

EXAMPLE 2:



5. Plot the data from the chart above. Pay careful attention to your scales and label your axes.



6. Using your graph, do you think there is a positive correlation, a negative correlation or no correlation between the class size and mean reading score?

7. Use one of the correlation calculators to figure out the correlation coefficient of the 2 variables.

*r*=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8: Was your prediction (from #6) correct? How do you know?