

NAME \_\_\_\_\_

Sociology 101 – Introduction to Sociology - OCS  
Research Report 2

Professor Reymers  
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*Data Visualization of Global Inequality*

You will use the "Gapminder" data visualization chart online to compare three variables related to international development.

- 1) On the Internet, go to [www.gapminder.org/tools](http://www.gapminder.org/tools) to view the chart. Take a moment to absorb what you are seeing. It should automatically start with the variable "Life expectancy, years" on the Y-axis (vertical) and the variable "Income per person" on the X-axis (horizontal), and the year should read "2015" in gray on the background of the chart. So, the farther a dot is to the top of the chart the higher the life expectancy and the farther right, the more income. The dots represent each nation of the world (color relates to the continent to which the country belongs) and the size of the dot represents the nation's population. Hovering the mouse over any given country (dot) will reveal the specific information for each nation about region and population size on the right-hand column of the webpage. Finally, the slider at the bottom of the chart will allow you to change the year, going back to 1800 for this particularly set of variables (Life expectancy and Income). Move the slider back and forth to see what happens to all nations over time. There are other features you can play with to make it easier to view the data, but that will not be necessary to complete the assignment.

- 2) Answer the following questions related to the data provided for each variable.

**Population:**

What was the largest nation by population in 2015? \_\_\_\_\_ Pop. \_\_\_\_\_

What was the second largest nation by population in 2015? \_\_\_\_\_ Pop. \_\_\_\_\_

What was the largest nation by population in 1800? \_\_\_\_\_ Pop. \_\_\_\_\_

What was the second largest nation by population in 1800? \_\_\_\_\_ Pop. \_\_\_\_\_

What was the population of the United States of America in 2015? \_\_\_\_\_

What was the population of the United States of America in 1800? \_\_\_\_\_

**Income:**

What nation had the highest income per person in the year 1800? \_\_\_\_\_ Income \_\_\_\_\_

What nation had the lowest income per person in the year 1800? \_\_\_\_\_ Income \_\_\_\_\_

What nation had the highest income per person in the year 1900? \_\_\_\_\_ Income \_\_\_\_\_

What nation had the lowest income per person in the year 1900? \_\_\_\_\_ Income \_\_\_\_\_

What nation had the highest income per person in the year 2000? \_\_\_\_\_ Income \_\_\_\_\_

What nation had the lowest income per person in the year 2000? \_\_\_\_\_ Income \_\_\_\_\_

**Health:**

What nation had the highest life expectancy in the year 1800? \_\_\_\_\_ Life Exp. \_\_\_\_\_

What nation had the lowest life expectancy in the year 1800? \_\_\_\_\_ Life Exp. \_\_\_\_\_

What nation had the highest life expectancy in the year 1900? \_\_\_\_\_ Life Exp. \_\_\_\_\_

What nation had the lowest life expectancy in the year 1900? \_\_\_\_\_ Life Exp. \_\_\_\_\_

What nation had the highest life expectancy in the year 2000? \_\_\_\_\_ Life Exp. \_\_\_\_\_

What nation had the lowest life expectancy in the year 2000? \_\_\_\_\_ Life Exp. \_\_\_\_\_

What happens to life expectancy in nearly ALL countries between 1916-1919? Why?

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- 3) Click on the chart where it says "Life expectancy, years", then from the list that pops up select "Babies per woman". Using the slider at the bottom, review what happens to the relationship between income and babies per woman from 1800 to 2015. Then answer the following

**Babies per woman:**

What nation had the highest number of babies per woman in 1800? \_\_\_\_\_ BPW \_\_\_\_\_

What nation had the lowest number of babies per woman in 1800? \_\_\_\_\_ BPW \_\_\_\_\_

What nation had the highest number of babies per woman in 1900? \_\_\_\_\_ BPW \_\_\_\_\_

