AP Human Geography: Gapminder & HDI Questions – Comparing Variables

**Directions: Go to** [**www.gapminder.org**](http://www.gapminder.org) **and click on Gap Minder World. Adjust the graph according to the following variables and answer the 10 question sets below on a separate sheet of paper.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | X (I.V.) | Y (D.V.) | Countries | Tasks/Questions |
| #1 | Income per Person | Life  Expectancy | All | 1. Describe what happens to life expectancy as income increases. 2. Identify which region has the lowest life expectancy. 3. Within each region, describe the range of life expectancies and identify which countries are at each extreme. 4. Explain why there might be such a range. |
| #2 | Time | Private Share of Total Health Spending | US, Nigeria, UK | 1. Predict the rank order of private share of total health spending, then record the actual rank order. 2. Explain factors that may be causing the differences. |
| #3 | HDI (Human Development Index) | Income per Person | The US, one other MDC, and one LDC | 1. Explain what general conclusions can be drawn about the relationship between income and quality of life based on the countries you chose. |
| #4 | Time | Cumulative CO2 Emissions | The US, one other MDC, and one LDC | 1. Identify which country has the highest emissions. 2. Explain possible factors leading to the increases over time. |
| #5 | Time | Poverty (% below $2/day) | The US, one other MDC, and one LDC | 1. Hypothesize/explain why poverty increased in Russia from 1989 to 1999. 2. Hypothesize/explain why Russia experienced a major drop in poverty after 1999. 3. Describe the trend of poverty in the past twenty years for each of the core countries. 4. Explain possible factors leading to the trends described. |
| #6 | Time | Gini Coefficient (Inequality Index) | The US, one other MDC, and one LDC | 1. For the most recent years, compare the Gini coefficients across countries. 2. Within a country, describe how the Gini coefficient has changed over time. |
| #7 | Children per Women (Fertility) | Life Expectancy | All | 1. Describe what has happened to life expectancy and fertility in most countries over time. 2. Compare the developing countries to the developed countries. What trends do you see? |
| #8 | Income | Child  Mortality | All | 1. Describe what has happened to child mortality in most countries over time. 2. Compare the developing countries to the developed countries. 3. Describe the possible factors that explain these differences. |
| #9 | Income per Person | Democracy Score | All | 1. Describe the relationship that exists between income per person and its democracy score. 2. Identify factors that might explain these differences. |
| #10 | Life Expectancy | Democracy Score | All/Core | 1. Describe the relationship that exists between life expectancy and its democracy score. 2. Identify factors that might explain these differences. |

**Part II: Use the UN’s Human Development Index at** [**http://hdr.undp.org/en/countries**](http://hdr.undp.org/en/countries) **to answer the following about a country you’d like to research. Everyone should pick a different country if possible. Answer the following questions in complete sentences. When you are finished, read over your answers, check your spelling and grammar, and post everything in one comment box on the AP Human Geography Blog (on the weebly).**

Country \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What did your country score on the following categories for 2018 (or most recent year available):
   * -  Overall HDI:
   * -  Life Expectancy:
   * -  Mean years of Schooling:
   * -  Expected years of Schooling:
   * -  Gross National Income (PPP):
2. How did the HDI of your country change in 2018 (how much did it go up or down)
3. Which area does your country most need to improve in? Explain why that area is the most pressing issue that needs to be changed. (Use the United States as a guide in which to compare your country)
4. What commonalities do you notice about the countries that are all listed in the ‘Very High Human Developed’ category? (For commonalities look for geographical location, and scores on particular categories)
5. What commonalities do you notice about the countries that are all listed in the ‘Low Human Development’ category? (For commonalities look for geographical location, and scores on particular categories)
6. Which of the HDI indicators is most important for countries who want to improve their overall HDI score? Explain your answer using examples from the data table.

When you are finished, and have posted. Please reply to a post made by at the least two classmates by adding additional perspective, noting something you found interesting, or making a comparison.

3 posts total.

Due: Thursday, January 24th