

Finding Population Growth of a Country

Instructions:

1. Use the CIA World Factbook to find data about your country at the following address:
<http://www.odci.gov/cia/publications/factbook/index.html>

2. Find the current population, growth rate, and area of your country.

Country: Population: Growth Rate: Area:

3. Use the equation below to predict the population every 10 years from 2000 to 2050

$$A = A_0 (1+r)^t$$

Where A = amount

A_0 = starting amount

r = growth rate as a decimal

t = time

4. Make a data table

Time in Years	Population in Millions
0	
10	
20	
30	
40	
50	

5. Plot a graph of population vs. time. Draw the curve of best fit.

6. Compare your graph to those of your classmates. Write down one observation about the population growth.

7. What factors could cause the population to increase faster or slower? Explain.

8. What is the population density of your country? ($1 \text{ km}^2 = .3861 \text{ mi}^2$) _____

9. Compare your population density to those of your classmates. Write down one observation about the population densities.

10. According to your equation when will the population reach 1 billion people?
_____ Show how you know.

