

Population Math Worksheet

Name _____ Per. _____

(Round all percents to the nearest tenth of a percent and round all populations to the nearest whole number)

1. If the % annual growth rate is 5%, what is the doubling time in years?

2. If the doubling time is 7 years, what is the % annual growth rate?

3. A bank advertises doubling your investment money in 12.3 years. What percent simple interest will it be paying?

4. The world population grows at a rate of **1.2% annually**.
 - a. What is the doubling time for the world population?

 - b. What would be the doubling time if the growth rate is cut to 1%?

 - c. Assuming the growth rate stays constant (at 1.2%), how many doublings would take place in a 500-year period?

 - d. What would the world's population be in 500 years if there are currently 7 billion people?

 - e. Assuming you live exactly to your life expectancy (78.7 years), what will the population be in the year you die?

 - f. If there are currently 7 billion people in the world, what year will there be 14 billion?

5. Complete the charts below (*data from 2006*)

Country/Region (Current pop.)	Annual growth rate (%)	Doubling Time	Population in 100 years
Europe (732 million)	-0.1	N/A	
Hungary (10.1 million)	-0.2	N/A	
United States (300 million)	0.8		
Niger (14.4 million)	3.4		
India (1.12 <i>billion</i>)	1.7		

Country/Region	Annual growth rate (%)	Doubling Time	Population in 100 years
Africa (924 million)	2.9		
Kenya (34.7 million)	3.7		
Israel (7.2 million)	1.5		
Palestine (3.9 million)	3.3		

6. Pick *one* country/region from the tables above and briefly discuss what issues may arise due to these projected populations in 100 years: