Name _____ Date _____ Class _____

MiniLab 4.2

Using Numbers

Doubling Time

The time needed for any population to double its size is known as its "doubling time." For example, if a population grows slowly, its doubling time will be long. If it is growing rapidly, its doubling time will be short.

Procedure

1. The following formula is used to calculate a population's doubling time:

$$\text{Doubling time (in years)} = \frac{70}{\text{annual percent growth rate}}$$

2. Use the data table below.
3. Complete the table by calculating the doubling time of human populations for the listed geographic regions.

Data Table

Geographic region	Annual percent growth rate	Doubling time
A	2.4	
B	1.7	
C	1.4	
D	0.5	
E	–0.1	

Analysis

1. Which region has the fastest doubling time? Slowest doubling time?

_____

_____

2. What are some of the ecological implications for an area with a fast doubling time?

_____

_____