

SHORT ANSWER Answer the questions in the space provided.

- In 1996 in the United States, the number of live births was 4 million, the number of deaths was 2.4 million, and the population was 265 million. Calculate the per capita birth rate, death rate, and growth rate. Show your calculations. _____

- What evidence did Charles Elton collect that suggested that fluctuations in hare and lynx populations were related? _____

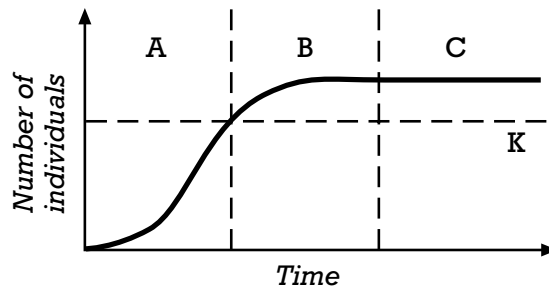
 What other evidence indicates that these fluctuations may not have been related? _____

- Name three effects that inbreeding can have on a population. _____

- Critical Thinking** If a population's per capita growth rate is 0.02 and its population is 100,000,000, how large will the population be in five years? Show your calculations. _____

STRUCTURES AND FUNCTIONS Use the figure to answer the following questions.

The graph below shows the growth of a population over time.



- Describe the birth rate and death rate in region A. _____
- Describe the birth rate and death rate in region C. _____
- Identify the line labeled K. _____
- What model best describes the growth of this population? _____