Name	Class	Date
Chapter 5 Populations		
Section 5–1 How This section identifies the ch	Populations Grow (pagaracteristics used to describe a popule ect population size and explains what it is growth are.	lation. It
Characteristics of Po	pulations (page 119)	
1. What are the four main	characteristics of a population?	
a	c	
b	d	
<b>2.</b> What is a population's	geographic distribution?	
3. Another term for geogr	aphic distribution is	·
4. What is population der	nsity?	
<b>5.</b> What is the equation w	ith which you can calculate popu	ılation density?
Population Growth	(page 120)	
•	sentence that is true about popul	lations.
a. They can grow rapid	lly.	
<b>b.</b> They can decrease in	ı size.	
<b>c.</b> They may stay the s	ame size from year to year.	
<b>d.</b> They stay the same	size until they disappear.	
7. What three factors can	affect population size?	
a		
b		
с		

**8.** If more individuals are born than die in any period of time, how will the population change?

9. Complete the table about changes in population.

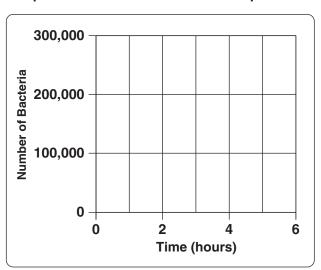
## **CHANGES IN POPULATION**

Type of Change	Definition	Resulting Change in Size
Immigration		
Emigration		

## Exponential Growth (page 121)

- **10.** How will a population change if there is abundant space and food and if the population is protected from predators and disease?
- 11. When does exponential growth occur?
- 12. What are three ways that a growth rate may be stated, or expressed? \_\_\_\_\_
- 13. Under ideal conditions with unlimited resources, how will a population grow?
- **14.** Complete the graph by drawing the characteristic shape of exponential population growth.

## **Exponential Growth of Bacterial Population**



**15.** Is the following sentence true or false? Elephants never grow exponentially because their rate of reproduction is so slow. \_\_\_\_\_

## Logistic Growth (page 122)

- **16.** Circle each sentence that is true about exponential growth.
  - a. It continues until the organism covers the planet.
  - **b.** It continues at the same rate as resources become less available.
  - c. It does not continue in natural populations for very long.
  - **d.** It continues in natural populations until the birthrate increases.
- 17. When resources become less available, how does population growth change?

- 19. Circle the letter of each instance when a population's growth will slow down.
  - **a.** The birthrate and death rate are the same.
  - **b.** The birthrate is greater than the death rate.
  - **c.** The rate of immigration is equal to the rate of emigration.
  - **d.** The rate of emigration is less than the rate of immigration.
- **20.** What is the carrying capacity of the environment for a particular species?

21. Complete the graph by drawing the characteristic shape of logistic population growth.

**Logistic Growth of Yeast Population** 

