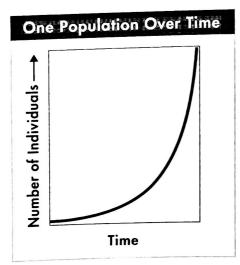
Assessment

201 How Populations Grow

Understand Key Concepts

- 1. The number of individuals of a single species per unit area is known as
 - a. carrying capacity.
 - **b.** logistic growth.
 - c. population density.
 - **d.** population growth rate.
- 2. The movement of individuals into an area is called
 - **a.** demography.
- c. immigration.
- **b.** carrying capacity.
- d. emigration.
- **3.** The area inhabited by a population is known as its
 - a. growth rate.
 - b. geographic range.
 - c. age structure.
 - d. population density.
- **4.** The graph below represents
 - a. carrying capacity.
- c. logistic growth.
- **b.** exponential growth. **d.** age structure.



- 5. The maximum number of organisms of a particular species that can be supported by an environment is called
 - a. logistic growth.
- c. exponential growth.
- **b.** carrying capacity.
- d. population density.
- **6.** What is the difference between immigration and emigration?

- **7.** Sketch the exponential growth curve of a hypothetical population.
- 8. Describe the conditions under which logistic growth occurs.
- **9.** What is carrying capacity? Give an example.

Think Critically

10. Use Analogies How is the carrying capacity of a city's roads similar to the carrying capacity of an ecosystem?

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Understand Key Concepts

- 11. A limiting factor that depends on population size is called a
 - a. density-dependent limiting factor.
 - **b.** density-independent limiting factor.
 - c. predator-prey relationship.
 - d. parasitic relationship.
- 12. One example of a density-independent limiting factor is
 - **a.** predation.
- c. competition.
- **b.** hurricanes.
- **d.** parasitism.
- **13.** How might increasing the amount of a limiting nutrient in a pond affect the carrying capacity of the pond?
- **14.** Describe the long-term effects of competition on populations of two different species competing for the same resources.
- **15.** Describe how a predator-prey relationship can control both the predator population and the prey population.
- 16. How do parasites serve as a density-dependent limiting factor?

Think Critically

- 17. Predict What would happen to a population of predators if there was a sudden increase in food for the prey? Explain your answer.
- 18. Apply Concepts Why would a contagious virus that causes a fatal disease be considered a density dependent limiting factor?