

Assessment

Quiz

8.1

Section: How Populations Change in Size

MATCHING

In the space provided, write the letter of the description that best matches the term or phrase.

- | | |
|--|----------------------|
| _____ 1. number of individuals per unit area | a. density dependent |
| _____ 2. example of indirect competition for resources | b. dispersion |
| _____ 3. relative distribution of individuals | c. density |
| _____ 4. water, sunlight, or nutrients for plants | d. territory |
| _____ 5. deaths caused by disease | e. limiting resource |

MULTIPLE CHOICE

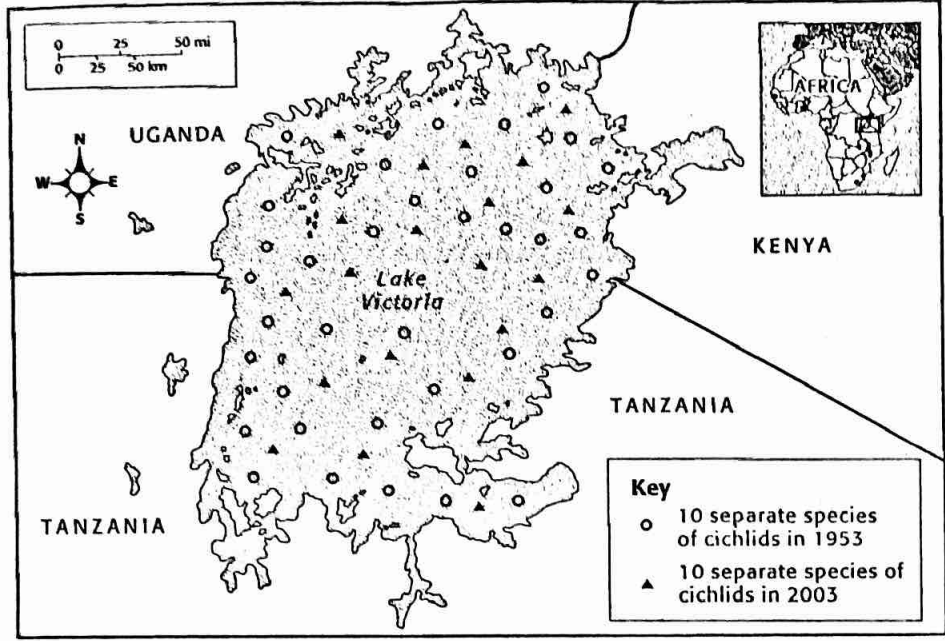
In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- _____ 6. Which of the following is one of the main properties used to describe a population?
- | | |
|--------------------------|------------------------|
| a. number of individuals | c. number of species |
| b. color of individuals | d. kind of adaptations |
- _____ 7. For a population's growth rate to be zero
- | |
|--|
| a. more deaths than births must occur. |
| b. more births than deaths must occur. |
| c. no births can occur. |
| d. the average number of births and deaths must be the same. |
- _____ 8. Exponential growth occurs when a population
- | |
|---|
| a. exceeds the habitat's carrying capacity. |
| b. is competing with another species. |
| c. grows increasingly faster. |
| d. breeds with another species. |
- _____ 9. Which of the following limits a population's biotic potential?
- | |
|--|
| a. a minimum number of offspring each pair can produce |
| b. a maximum number of offspring each individual can produce |
| c. the number of interactions each individual has |
| d. the size of offspring each individual can produce |
- _____ 10. Which of the following limits a population's growth?
- | | |
|-------------------------------------|---------------------|
| a. carrying capacity of its habitat | c. severe weather |
| b. natural disasters | d. all of the above |

Skills Worksheet

TRACKING CICHLIDS

Map Skills



Lake Victoria, shown in the population map above, is the largest lake in Africa and is home to fish called cichlids (pronounced SIK-lids). In the 1950s, a new fish, the Nile Perch, was introduced into Lake Victoria. This map shows the change in the cichlid population since the Nile Perch was introduced.

Use the map above to answer the questions below.

1. **Using a Key** In which year was the number of cichlids the greatest?

2. **Using a Key** How many years did it take for the cichlid population to decrease by 50 percent?

3. **Inferring Relationships** Which fish in Lake Victoria do you think is higher on the food chain—the cichlid or the Nile Perch? Explain your answer.

4. **Identifying Trends** Based on the rate of decrease of cichlids shown on the map, what do you think will happen to the cichlid population by 2050? Explain your answer.
