

Skills Worksheet

Directed Reading - Chapter 15, Section 1

Section: How Populations Grow

Complete each statement by writing the correct term or phrase in the space provided.

1. A(n) _____ consists of all the individuals of a species that live together in one place at one time.
2. The statistical study of all populations is called _____.
3. The way individuals of a population are arranged in space is called _____.
4. Demographers are interested in predicting how the _____ of a population will change.

Read each question, and write your answer in the space provided.

5. Why is size an important feature of a population?

6. Why is density an important feature of a population?

Directed Reading *continued*

7. What is a population model?

8. How is the growth rate of a population calculated?

9. What are density-dependent factors? Give an example of a density-dependent factor.

10. What is the logistic model of population growth?

Directed Reading *continued*

Complete each statement by writing the correct term or phrase in the space provided.

11. In a(n) _____
 _____, the rate of population growth is constant.
12. The population size that an environment can sustain is called the
 _____.

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

- | | |
|---------------------------------------|--|
| _____ 13. density-independent factors | a. grow exponentially when environmental conditions allow them to reproduce |
| _____ 14. <i>r</i> -strategists | b. environmental conditions |
| _____ 15. <i>K</i> -strategists | c. their population density is usually near the carrying capacity of their environment |
| _____ 16. density-dependent factors | d. amount of limited resources |

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

- _____ 17. Which of the following are mosquito populations?
 a. *r*-strategists c. *N*-strategists
 b. *K*-strategists d. *pq*-strategists
- _____ 18. Many *r*-strategists are found in a
 a. stable environment.
 b. rapidly changing environment.
 c. humid environment.
 d. slowly changing environment.
- _____ 19. In general, *r*-strategists have all of the following characteristics EXCEPT
 a. a short life span.
 b. reproduction early in life.
 c. parental care of offspring.
 d. production of many offspring.
- _____ 20. Populations that grow slowly are
 a. *K*-strategists.
 b. endangered.
 c. genetically similar.
 d. decreasing in allele frequency.

