

## STUDY GUIDE, CONTINUED

**9.** Describe the role that cyanobacteria play in the theory of endosymbiosis.

## MAIN IDEA: The evolution of sexual reproduction led to increased diversity.

- **10.** What is the main advantage of asexual reproduction?
- **11.** Sexual reproduction increases genetic variation in a population. Why might this be beneficial to the population?

## **Vocabulary Check**

- **12.** Bacteria that can carry out photosynthesis are called \_\_\_\_\_\_.
- 13. The mutually beneficial relationship in which one organism lives within the body of
  - another is called \_\_\_\_\_
- **14.** The term *endosymbiosis* can be broken down into parts. *Endo-* means "within." What is another term you have heard that starts with *endo-*?
- **15.** The term *cyanobacteria* can be broken down into parts. *Cyan* means "greenish blue," because cyanobacteria are often blue-green in color. Not too long ago, cyanobacteria were known as blue-green algae. Why do you think they were considered algae?

CHAPTER 12 The History of Life