



reproduction (pp. 220-221)

10. Complete the table below about reproduction in bacteria.

Reproduction in Bacteria

	Asexual Reproduction	Sexual Reproduction
Name of Process	binary fission	conjugation
Number of Parents	one	two
What Occurs in Process	The cell duplicates its genetic material. then divides into 2 cells	One bacteria transfers some of its genetic material into another
Result of Process	New cells identical to parents	Bacteria are genetically different from parents

The Role of Bacteria in Nature (pp. 222-225)

12. Circle the letter of each sentence that is true about bacteria.

- a. All bacteria are harmful and cause disease.
- b. Some bacteria can use the sun's energy to make their own food.
- c. Bacteria help produce foods such as cheese, apple cider, and sauerkraut.
- d. Bacteria do not cause food to spoil.

13. Soil bacteria that break down large chemicals in dead organisms into small chemicals are called decomposers.

14. Is the following sentence true or false? Bacteria can be used to clean up oil spills and gasoline leaks. True

15. List three ways that bacteria in your digestive system are helpful to you.

- a. digest food
- b. make vitamins
- c. prevent harmful bacteria from attaching to the intestines

16. How do bacteria help people with <sup>some types of</sup> diabetes?

People with some types of diabetes cannot make their own insulin. Bacteria can be engineered to produce human insulin. This insulin can be purified and made into medicine

17. How are bacterial cells different from the cells of eukaryotes?  
eukaryote cells have a nucleus.