

## Section 20-2 Animallike Protists: Protozoans

(pages 499–505)



### Key Concepts

- What are the distinguishing features of the major phyla of animallike protists?
- How do animallike protists harm other living things?

### Introduction (page 499)

1. At one time, what were all animallike protists called? \_\_\_\_\_
2. How are the four phyla of animallike protists distinguished from one another?  
\_\_\_\_\_  
\_\_\_\_\_

### Zooflagellates (page 499)

3. What kind of protists are classified in the phylum Zoomastigina? \_\_\_\_\_  
\_\_\_\_\_
4. How many flagella does a zooflagellate have? \_\_\_\_\_  
\_\_\_\_\_
5. Zooflagellates reproduce asexually by means of \_\_\_\_\_.
6. Is the following sentence true or false? Some zooflagellates have a sexual life cycle.  
\_\_\_\_\_

### Sarcodines (page 500)

7. Sarcodines are members of the phylum \_\_\_\_\_.
8. What are pseudopods? \_\_\_\_\_  
\_\_\_\_\_
9. What do sarcodines use pseudopods for? \_\_\_\_\_  
\_\_\_\_\_
10. The best known sarcodines are the \_\_\_\_\_.
11. What is amoeboid movement? \_\_\_\_\_  
\_\_\_\_\_
12. What is a food vacuole? \_\_\_\_\_  
\_\_\_\_\_
13. How do amoebas capture and digest food? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
14. Amoebas reproduce by means of \_\_\_\_\_.
15. Circle the letter of each example of a sarcodine.  
a. foraminiferan   b. paramecium   c. amoeba   d. heliozoan



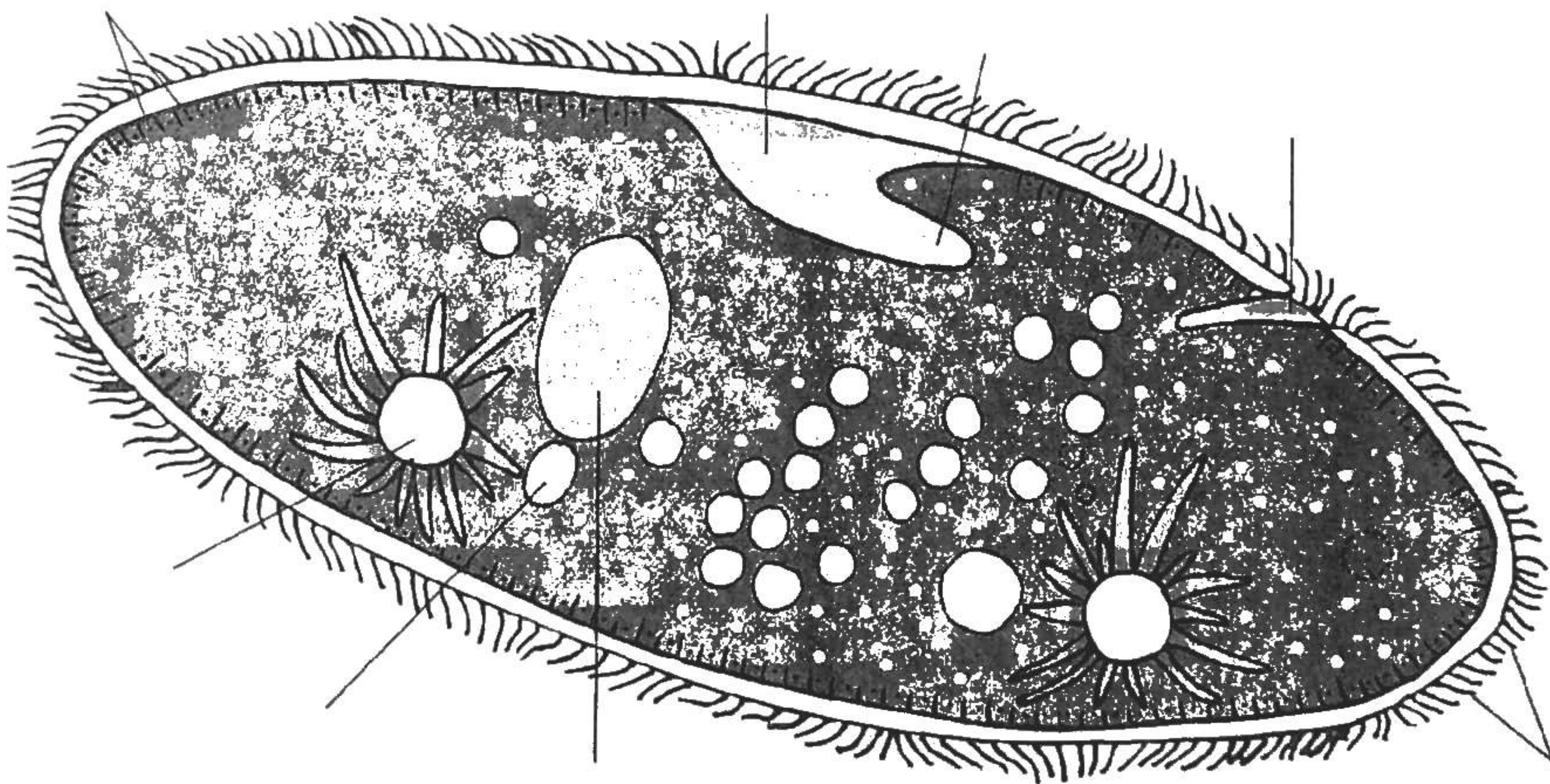
## Ciliates (pages 501–502)

16. Ciliates are members of the phylum \_\_\_\_\_.
17. What are cilia? \_\_\_\_\_
18. What do ciliates use cilia for? \_\_\_\_\_

Match the ciliate structure with its description.

Structure	Description
_____ 19. Trichocysts	a. Indentation on one side of a ciliate into which food is swept
_____ 20. Macronucleus	b. Smaller nucleus containing a "reserve copy" of the cell's genes
_____ 21. Micronucleus	c. Small, bottle-shaped structures used for defense
_____ 22. Gullet	d. Region of cell membrane where waste-containing food vacuoles fuse
_____ 23. Anal pore	e. Larger nucleus containing multiple copies of most of the cell's genes
_____ 24. Contractile vacuole	f. Cavity in cytoplasm specialized to collect and pump out water

25. Label the illustration of a paramecium.



26. What is conjugation? \_\_\_\_\_
- \_\_\_\_\_
27. Within a large population, how does conjugation benefit ciliates? \_\_\_\_\_
- \_\_\_\_\_



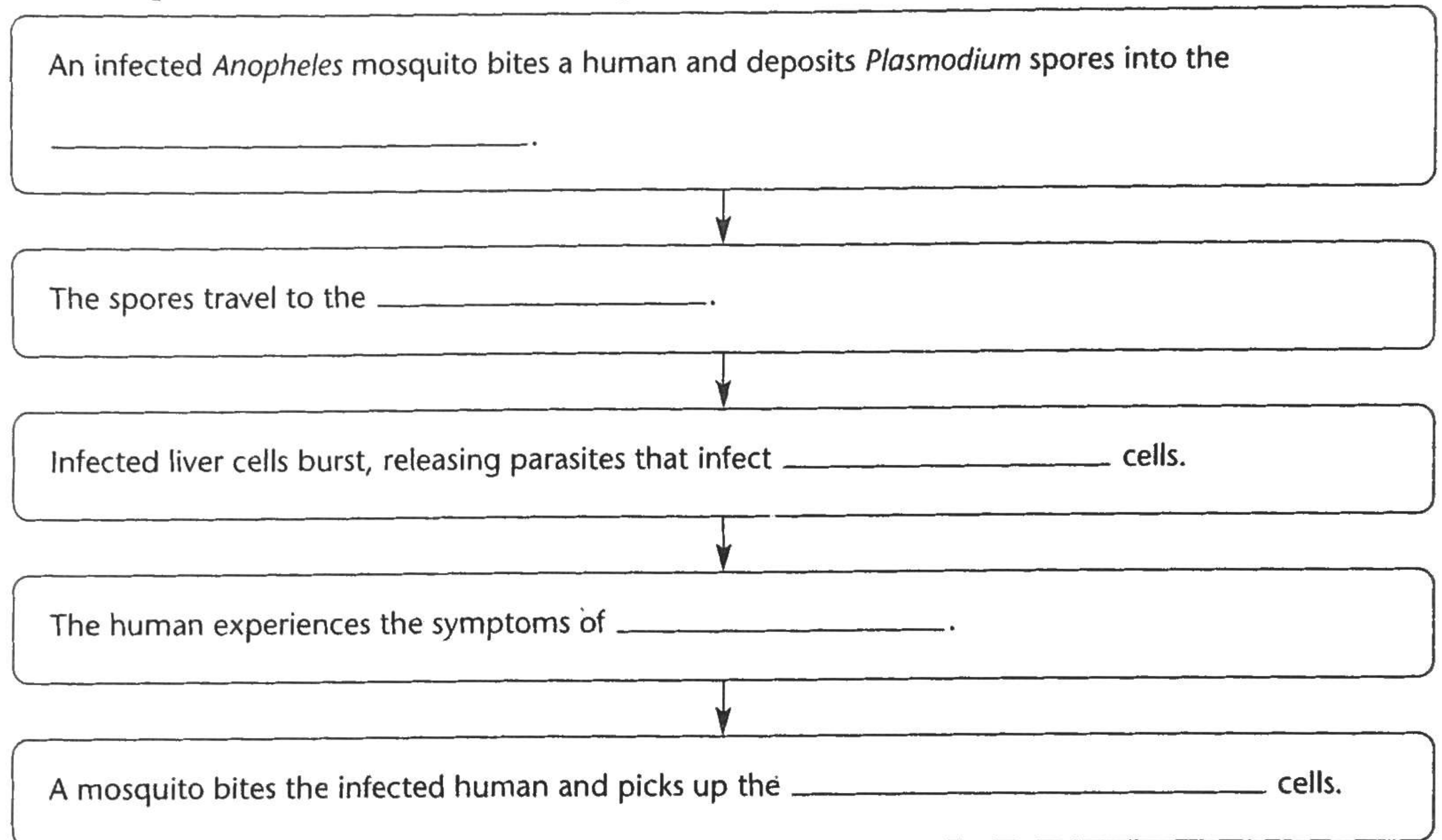
### Sporozoans (page 502)

28. Sporozoans are members of the phylum \_\_\_\_\_.
29. Circle the letter of each sentence that is true about sporozoans.
- a. They are parasitic.
  - b. They do not move on their own.
  - c. All have only one host.
  - d. They reproduce by means of sporozoites.

### Animallike Protists and Disease (pages 503–504)

30. What causes malaria? \_\_\_\_\_

31. Complete the flowchart about the cycle of malarial infection.



### Ecology of Animallike Protists (page 505)

32. Is the following sentence true or false? Some animallike protists recycle nutrients by breaking down dead organic matter. \_\_\_\_\_

33. How does the zooflagellate *Trichonympha* make it possible for termites to eat wood?

---



---



---



---



---