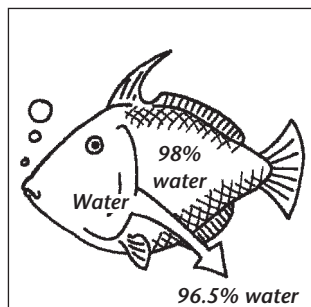


**Cell Structure and Function** ▪ 3.4 Review and Reinforce

# The Cell in Its Environment

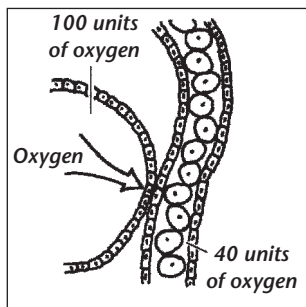
## Understanding Main Ideas

Fill in the blank to identify the process illustrated in each of the following figures.



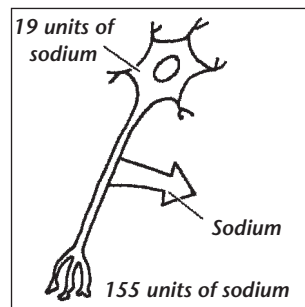
Water moves out of the cells of a saltwater fish and into the ocean.

1. \_\_\_\_\_



Oxygen moves from the lungs into the bloodstream.

2. \_\_\_\_\_



Sodium is pumped out of a nerve cell.

3. \_\_\_\_\_

Answer the following questions on a separate sheet of paper.

4. Explain how osmosis differs from diffusion.
5. Compare and contrast active and passive transport.
6. Identify two methods of active transport.
7. State one reason that cells are small.

## Building Vocabulary

If the statement is true, write true. If the statement is false, change the underlined word or words to make the statement true.

- \_\_\_\_\_ 8. Selectively permeable means letting some but not all substances pass through.
- \_\_\_\_\_ 9. Osmosis is the process by which molecules tend to move from an area of higher concentration to an area of lower concentration.
- \_\_\_\_\_ 10. The process by which water moves across a selectively permeable membrane is called diffusion.
- \_\_\_\_\_ 11. Diffusion and osmosis are types of active transport.
- \_\_\_\_\_ 12. Passive transport requires the cell's own energy.