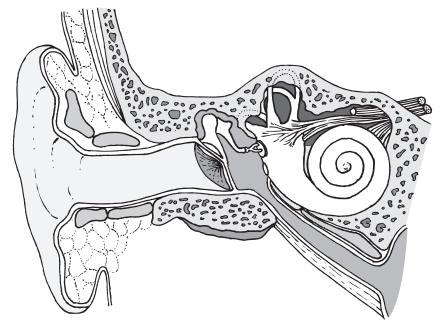
## Hearing and Balance (pages 908–909)

**10.** List the two sensory functions of the ear.

a. \_\_\_\_\_

b. \_\_\_\_\_

11. Label each of the following structures in the drawing of the ear: auditory canal, tympanum, semicircular canals, and cochlea.



- 12. Is the following sentence true or false? The tympanum sends nerve impulses to the brain. \_\_\_\_\_
- **13.** Complete the flowchart.

Vibrations enter the ear through the \_\_\_\_\_

The vibrations cause the \_\_\_\_\_\_ to vibrate.

These vibrations are picked up by three tiny bones, called the \_\_\_\_\_\_,

\_\_\_\_\_\_, and \_\_\_\_\_\_.

The last bone transmits the vibrations to the \_\_\_\_\_\_, creating pressure waves in the \_\_\_\_\_

Tiny hair cells inside the \_\_\_\_\_\_ produce nerve impulses that are sent to the brain through the \_\_\_\_\_\_ nerve.

**14.** What is the role of hair cells in the cochlea?