

Chapter 33 Comparing Chordates

Section Review 33-1

Reviewing Key Concepts

Short Answer *On the lines provided, answer the following questions.*

1. List four features found in all chordates at some point in their development.

2. What is considered the first chordate, and what led scientists to classify it as a chordate?

3. What are the two groups of chordates with which vertebrates share a common ancestor?

4. Over the course of evolution, what launched adaptive radiations in chordate groups?

5. List the following adaptations in the order in which they appeared during chordate evolution: lungs, jaws, vertebrae, endothermy, four limbs.

Completion *On the lines provided, complete the following sentences.*

6. The rapid diversification of species as they adapt to new conditions is called _____ .
7. The process that produces two species that are similar in appearance and behavior, but are not closely related, is called _____ .
8. About 96 percent of all living chordate species are classified as _____ .

Reviewing Key Skills

9. **Applying Concepts** How are the wings of bats and birds an example of convergent evolution?

10. **Posing Questions** What is an example of a question you would ask about a newly discovered species, in order to tell whether the species is a chordate?

