

Chapter 28**Arthropods and Echinoderms****Section 28–1 Introduction to the Arthropods** (pages 718–719)

This section identifies the major features of arthropods. It also describes the important trends in arthropod evolution and explains how growth and development take place in arthropods.

What Is an Arthropod? (page 718)

1. What is the basic body plan of all arthropods? _____

2. A tough body wall that protects and supports the body of arthropods is called a(n) _____.
3. What is chitin? _____

4. Circle the letter of each sentence that is true about arthropod exoskeletons.
 - a. The exoskeletons of many land-dwelling species have a waxy covering.
 - b. All arthropod exoskeletons are the same shape.
 - c. Lobster exoskeletons cannot be crushed by hand.
 - d. An exoskeleton is an external covering.
5. What are appendages? _____

6. Is the following sentence true or false? The appendages of arthropods are jointed. _____

Evolution of Arthropods (page 719)

7. Circle the letter of where the first arthropods appeared more than 600 million years ago.
 - a. the land b. the sea c. the air d. bodies of fresh water
8. What are two ways in which arthropods have evolved since they first appeared?
 - a. _____
 - b. _____
9. Circle the letter of each sentence that is true about arthropod evolution.
 - a. Most primitive arthropods had only one or two body segments.
 - b. Arthropod appendages evolved into different forms.
 - c. The early body plan was modified gradually.
 - d. Appendages of living arthropods include wings, flippers, and mouthparts.

Arthropods And Echinoderms Section 28 Answer Key

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