

Evolution

Name:

Comparing Organisms

Period:

Use Chapter 10, Section 1 of your textbook to answer the questions below.

Comparing Organisms (p.304)

1. Comparative anatomy studies the _____ and _____ between organisms.
2. Molecular biology studies the _____ found in organisms.

Comparing Anatomy

3. What do scientists find when they study the structures of different organisms?
 - a. Related organisms share many traits.
 - b. Related organisms share no traits.
 - c. Related organisms share all their traits.
 - d. Unrelated organisms have no traits.
4. How is your arm like a bat's wing?
 - a. Your arm has similar bones.
 - b. Your arm is used in the same way.
 - c. Your arm has similar muscles.
 - d. Your arm looks the same.
5. Why does your arm have almost the same bones as a dolphin's flipper?
 - a. Dolphins evolved from people.
 - b. Dolphins and people have a common ancestor.
 - c. People evolved from dolphins.
 - d. Flippers are the same as hands.
6. Even though we have the structure of our arm bones is the same as that of a cat, our bones perform different _____ .

Comparing DNA Molecules

7. An organism's traits are determined by its _____ .
8. Many similarities in the DNA of two species means what?
 - a. The two species recently shared a common ancestor.
 - b. The two species are not closely related.
 - c. The two species look exactly alike.
 - d. The two species both have limbs.

