Evolution Name:

Comparing Organisms Period:

Use Chapter 10, Section 1 of your textbook to answer the questions below. The word bank can be used to fill out the sentences below.

differences DNA functions molecules similarities

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 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 the genetic information stored in its _____ .

_____ 8. If two species share many similarities in their DNA, what does this mean?
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.