Evolution   Name:

Classification Benchmark Review   Period:
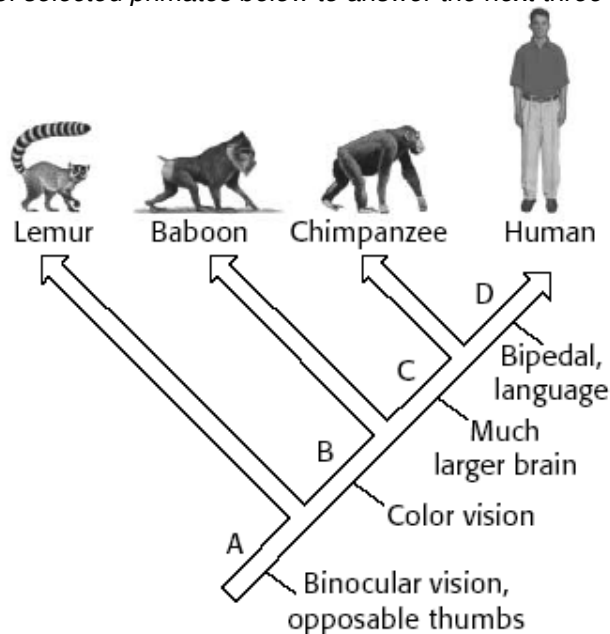
Use your brain to answer the following questions, then check your work using Chapter 11.

_____ 1. How do scientists classify organisms?
      a. by grouping the organisms by their characteristics
      b. by giving the organisms many common names
      c. by deciding whether the organisms are useful
      d. by using only existing categories of classification

2. Why is the use of scientific names important in biology?

3. What kind of evidence is used by modern taxonomists to classify organisms based on evolutionary relationships?

Use the branching diagram of selected primates below to answer the next three questions.

4. Which primate is the closest relative to the common ancestor of all primates? _____

5. Which primate shares the most characteristics with humans? _____

6. Do both lemurs and humans have the characteristics listed at point D? Explain your answer.

7. Sometimes, the branches in a branching diagram stop at dead ends. These dead ends may not reach the top of the diagram. What can you tell about the organisms shown at the end of these branches? Explain.

7.3d