

Three species of frogs live on the Philippine Islands in different niches. The first species lives on the ground and digs burrows for shelter. The second species lives in small bushes and frequently moves from place to place. The third species spends much of its life in holes in trees. Scientists think the three species have a recent common ancestor that lived only on the ground. They hypothesize that competition played a major role in the frogs' speciation.

- a. Identify a factor that may have caused competition among the original ground-dwelling frogs.
- b. Explain how the genetic diversity of the original ground-dwelling frogs allowed them to live in different niches.
- c. Using your knowledge of natural selection, explain how living in different niches led to the development of the different species of frogs.