Name Block

Date Group

**What do you Know about Natural Selection?**

**Matching**

1. \_\_\_\_\_ Evolution a. change in characteristics through generations
2. \_\_\_\_\_Natural Selection b. trait the increases chance of survival/reproduction
3. \_\_\_\_\_Adaptatation c. unequal survival/reproduction based on traits
4. \_\_\_\_\_ resistance d. genetic tolerance or immunity to a substance

**Multiple Choice**

1. \_\_\_\_Humans have promoted the evolution of insects that are resistant to insecticide by
   1. Trying to control pests with chemicals
   2. Using insecticides that are outdated
   3. Using the wrong insecticide
   4. Breeding more useful insects
2. \_\_\_\_In order for evolution to occur in a population, individuals with a trait that is “naturally selected for” must
   1. Live a long time c. reproduce
   2. Leave the area d. coevolve
3. \_\_\_\_Which of these sentences DOES NOT describe part of the process of evolution by natural selection?
   1. The environment contains limited resources
   2. Organisms produce more offspring than will survive to reproduce
   3. Communities include populations of several species
   4. Organisms in a population differ in their traits

**Short Answer**

**Imagine that a population of rabbits was released during the winter into an ecosystem that is covered with snow most of the year. Fifty percent of the rabbits were dark gray and 50 percent of the rabbits were white. The only animal in the ecosystem that eats rabbits is a species of hawk. The next winter, scientists visit the area and observe the rabbit population. As expected, the overall rabbit population has grown and the percentage of white rabbits has increased.**

1. Explain what probably caused the increase in the percentage of white rabbits.
2. Explain how the percentage of white and gray rabbits might differ from the amounts above it the area was covered with snow for only 3 month per year.