|  |  |  |  |
| --- | --- | --- | --- |
| The starting population of snakes varies in the trait “head size.” There are more snakes with larger heads.  1 | There is an environmental change. Large poisonous toads are introduced to the population.  2 | | Snakes with smaller heads cannot easily swallow the poisonous toads, so they are safe. They survive. More snakes with larger heads die because they can eat the poisonous toads.  3 |
| The snakes that survive reproduce and the next generation has more snakes with smaller heads than before.  4 | | This continues for many generations. After many generations, there is still some variation in the population, but all of the snakes have smaller heads, on average.  5 | |