1. In humans, attached ear lobes are caused by the inheritance of two recessive genes. Free ear lobes are the result of inheriting at least one dominant gene for free ear lobes. The frequency of the recessive allele is 70%. Calculate the following frequencies:
2. Homozygous dominant
3. Heterozygous
4. Homozygous recessive
5. How many people in a population of 7000 would you expect to have each phenotype?
   * Free earlobes
   * Attached earlobes
6. 18 out of 50 lizards sampled has short tails (a recessive trait), while the rest have long tails.
7. Calculate the frequency of the recessive allele.
8. Calculate the frequency of the dominant allele.
9. Calculate the frequency of heterozygous individuals in the population.
10. In sheep, white wool is the dominant to black wool. If 25% of the sheep in a large population have black wool, calculate the following frequencies.
11. The frequency of true-breeding white sheep.
12. The frequency of hybrid sheep with white coats.
13. The frequencies of white and black sheep.
14. The number of white and black sheep you would expect to find in a population of 750.