

1. A randomly mating population has a frequency of 16% for organisms that are homozygous dominant. What is the frequency of the recessive allele in the gene pool?
2. Brown coat color rabbits possess the dominant allele B , and white coat color rabbits possess the recessive allele b . If the frequency of the allele for white coat color is 0.04, which of the following best represents the frequency of the dominant allele in the population? (Assume that this population is in Hardy-Weinberg equilibrium.)
3. The recessive allele for a specific hereditary trait has a frequency of 0.30. What percentage of the individuals in the subsequent generation are expected to show the dominant trait, assuming that the population is in Hardy-Weinberg equilibrium?
4. The frequency of the allele for a dominant trait is 0.8 in a certain population. The frequency of heterozygotes in this population is