Codominance

1. In some chickens, the gene for feather color is black, white and erminette. The allele for black is B and the allele for white is W. The heterozygous phenotype is known as erminette.

a. What is the genotype for black chickens?

b. What is the genotype for white chickens?

c. What is the genotype for erminette chickens?

[3]

2. If two erminette chickens were crossed, what is the probability that:

a. They would have a black chick?

b. They would have a white chick?

[2]

3. A black chicken and a white chicken are crossed. What is the probability that they will have erminette chicks?

[2]

4. A man of blood type A married a woman of blood type B. They had children, of blood types O, B and AB, respectively. What are the genotypes of parents and children? Use genetic diagrams to explain your answer.

[3]