

Incomplete and Codominance Worksheet

(Non-mendelian monohybrid crosses)

Name: _____

Period: _____

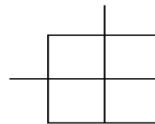
Date: _____

Answer the following questions. Provide a punnett square to support your answers where indicated. Express probabilities as percentages. For instance, a probability of one chance in ten would be 10%.

1. Explain the difference between incomplete dominance and codominance:
2. In some chickens, the gene for feather color is controlled by codominance. 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? _____

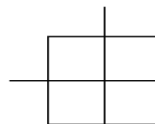
3. If two erminette chickens were crossed, what is the probability that:
 - a. They would have a black chick? _____%
 - b. They would have a white chick? _____%

Parents: _____ X _____



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

Parents: _____ X _____



5. In snapdragons, flower color is controlled by incomplete dominance. The two alleles are red (R) and white (W). The heterozygous genotype is expressed as pink.
 - a. What is the phenotype of a plant with the genotype RR? _____
 - b. What is the phenotype of a plant with the genotype WW? _____
 - c. What is the phenotype of a plant with the genotype RW? _____