Fill in the Punnett squares for each cross given to determine the phenotype and genotype ratio's of the offspring



## Refer to the crosses that you worked out on the front of this page to answer questions 1-8

- 1. What crosses will result in all dominant phenotype offspring?
- 2. What cross will result in all recessive phenotype offspring?
- 3. What cross will result in half dominant and half recessive phenotype offspring?
- 4. What cross will result in a ratio of 3 dominant phenotype offspring for every 1 recessive offspring?
- 5. What cross will result in a 1:2:1 genotype ratio in the offspring?
- 6. What cross will result in all homozygous recessive offspring?
- 7. What cross will result in half homozygous dominant offspring and half heterozygous offspring?
- 8. What cross will result in all heterozygous offspring?
- 9. In dogs, **black fur (B) is dominant** over yellow fur (b). A <u>homozygous black</u> dog is mated with a <u>yellow</u> dog. Do a punnett square to show the cross and predict the offspring (phenotypes and genotypes)

10. In dogs, **black fur (B) is dominant** over yellow fur (b). A <u>heterozygous black</u> dog is mated with a <u>yellow</u> dog. Do a punnett square to show the cross and predict the offspring (phenotypes and genotypes)