

## Monohybrid Practice Problems

**Show Punnett Square, give Genotype AND Phenotype for each on your own paper!**

1. In humans brown eyes are dominant over blue eyes. What type of offspring would you expect if you crossed a heterozygous brown eyed person to a heterozygous brown eyed person?
2. A widow's peak hairline is dominant to straight hairline. Cross a heterozygous widow's peak hairline person to a straight hairline person.
3. In humans premature gray hair is dominant over normal hair coloring. Cross a homozygous premature gray haired person to a homozygous normal haired person.
4. In humans tongue rolling is dominant to non-tongue rolling. What would be the expected type of offspring if a homozygous tongue roller was crossed to a heterozygous tongue roller?
5. Brown hair is dominant over light colored hair. Cross two light haired people.
6. In a certain plant yellow fruit is dominant to white fruit. A heterozygous plant with yellow fruit is crossed with a plant with white fruit. Determine the probable offspring.
7. In a certain animal, black fur is dominant to white fur. Determine the possible offspring from crosses between:
  - a. Homozygous black x white
  - b. Heterozygous black x heterozygous black
8. In garden peas, round peas are dominant to wrinkled peas. If you crossed a homozygous dominant and homozygous recessive what would be the genotype and phenotype of the offspring?
9. In corn, normal kernels are dominant to waxy kernels. If you crossed a waxy kernel plant to a heterozygous normal plant what type of seeds would be produced?
10. Tall plants are dominant to short plants in the garden pea plant. Cross a heterozygous tall plant to a heterozygous tall plant.