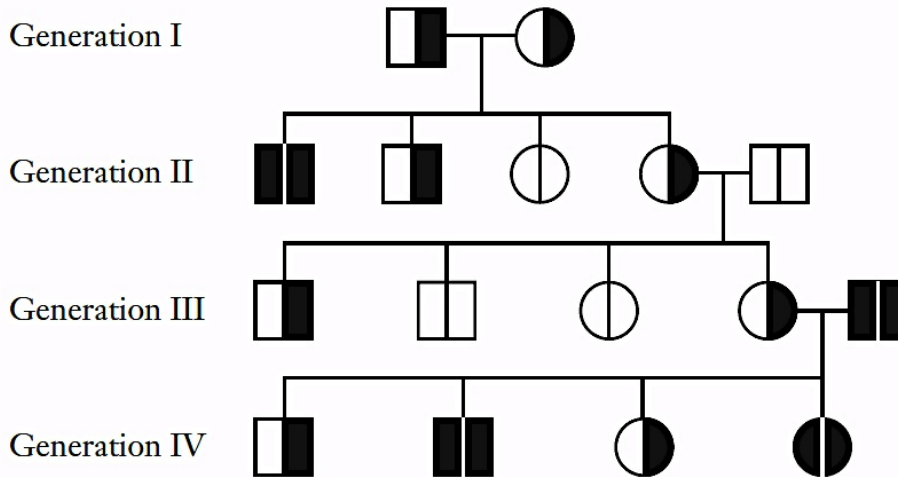


Name _____

Date _____

Warm-Up: Analyze the Pedigree

Below is a pedigree for a group of dogs. Some of the dogs in this group are tall, some are short. Some are tall, but carry the recessive short trait.



White = Tall Dominant

Black = Short Recessive

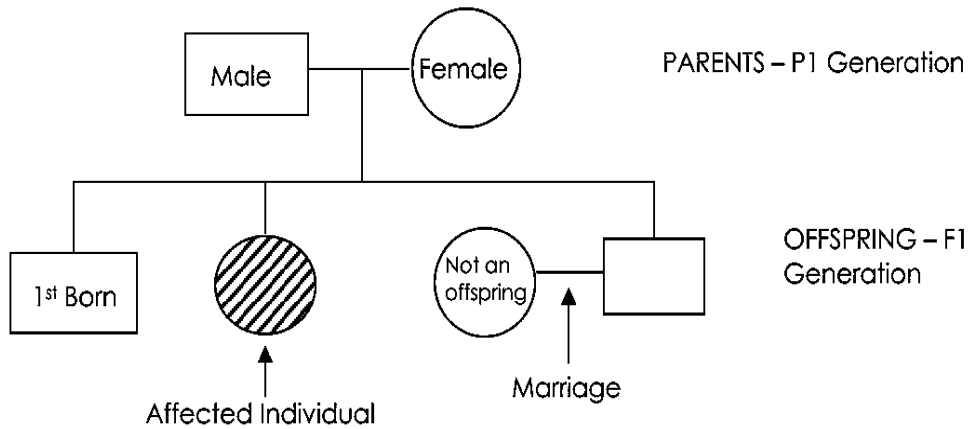
□ Male

○ Female

1. How many generations are shown in the pedigree? _____
2. How many offspring did the parents in the first generation have? _____
3. What does the square in generation I stand for? Why is it half-shaded? _____

4. Which dog was the first in the family to be short? _____
5. A female dog from generation III has four puppies. How many of these offspring carry the short trait? How many of the offspring are short? _____

A pedigree is a way of indicating generations of mating by using standard symbols:



X^N = Normal X^n = red-green colorblindness (shaded in)

Using the above key, write the genotype and phenotype of each individual.

- | | | |
|----------|-----------|-----------|
| 1. _____ | 6. _____ | 11. _____ |
| 2. _____ | 7. _____ | 12. _____ |
| 3. _____ | 8. _____ | 13. _____ |
| 4. _____ | 9. _____ | 14. _____ |
| 5. _____ | 10. _____ | |

