

Name: \_\_\_\_\_

TOC#: \_\_\_\_\_

# Genetics Review

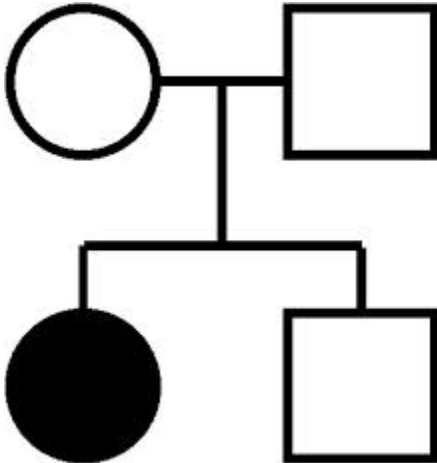
1. Define the following terms:

- a. Gene
- b. Allele
- c. Dominant
- d. Recessive
- e. Homozygous
- f. Heterozygous

2. What occurs in Mitosis?

3. What occurs in Meiosis?

4. What is the following image called?



5. What do the squares vs. circles represent?

6. What do the shaded vs. non shaded shapes represent?

7. Why do we complete Punnett Squares



8. Complete the following Punnett Square problem: If brown fur is dominant to white fur, predict the outcomes of a homozygous recessive male bunny with a heterozygous female bunny.

Show the Punnett cross and list the genotype and phenotype percentages.


Genotypes

|

Phenotypes

9. How do you think Punnett Squares will change if we look at more than one gene at a time.

10. Try to complete the following: If long tails are dominant to short tail, and brown fur is dominant to white fur, predict the following outcomes. A heterozygous bunny for both tail and fur and a homozygous dominant bunny for both tail and fur.