Genetics-Heredity Study Guide

Name _____ #_____

Date _____ Section _____

Concepts/Words to know:

- Gregor Mendel
- P, F1, F2 Generations
- Codominant
- Incomplete Dominance
- Heterozygous
- Allele
- Homozygous
- Dominant and recessive
- Autosomal
- X-linked
- Blood Types and transfusions
- Pedigrees
- Punnett Square
- Pea Plants
- Genetic disorders
- X-linked recessive
- Carrier
- Hemophilia

1) A green pea plant (Gg) is crossed with a yellow pea plant (gg).

2) A tall plant (TT) is crossed with a tall plant (Tt).

3) A tall plant (Tt) is crossed with a short plant (tt).

4) A red flower (Rr) is crossed with a white flower (rr).

5) A white flower (rr) is crossed with a white flower (rr).

6. A homozygous dominant brown mouse is crossed with a heterozygous brown mouse (tan is the recessive color).

7. Two heterozygous white (brown fur is recessive) rabbits are crossed.

8. In some chickens, the gene for feather color is controlled by codiminance. 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? _____