

Punnett Square Practice

Part I: Make a Punnett Square for each cross below. Black fur (B) is dominant to gray fur(b).

Directions: Highlight all words that are in bold – these are the genotypes of your parents!
Be sure to list the potential genotypes and phenotypes of the offspring with percents!

1. If the mother is **homozygous recessive** and the father is **homozygous dominant**.

- What are the genotypes of the parents?
- Write the genotype probabilities.
- Write the phenotype probabilities.

2. If the mother is **heterozygous**, and the father is **heterozygous**.

- What are the genotypes of the parents?
- Write the genotype probabilities.
- Write the phenotype probabilities

3. If the mother is **heterozygous**, and the father is **homozygous dominant**.

- What are the genotypes of the parents?
- Write the genotype probabilities.
- Write the phenotype probabilities

4. If the mother is **homozygous recessive**, and the father is **heterozygous**.

- What are the genotypes of the parents?
- Write the genotype probabilities.
- Write the phenotype probabilities