

PUNNETT SQUARE PRACTICE WORKSHEET

Name: _____

Date: _____

Class: _____

Instructions:

- Complete the following Punnett squares to predict the possible genotypes and phenotypes of offspring.
- Answer the questions based on your completed Punnett squares.

Fur Color in Rabbits

- In rabbits, black fur (B) is dominant over white fur (b).
- Cross: Heterozygous black rabbit (Bb) × White rabbit (bb)

Questions:

- What percentage of offspring will have black fur?
- What percentage will have white fur?
- What is the genotypic ratio?
- What is the phenotypic ratio?

Activity Challenge – Coat and Eye Color in Dogs

A black-furred, brown-eyed dog (BbEe) is crossed with a white-furred, blue-eyed dog (bbee).

- Complete the Punnett square for both traits (B and E).
- What are the possible fur and eye color combinations in the offspring?
- How many puppies could have black fur and blue eyes?
- How many could have white fur and brown eyes?