

Name: _____ Date: _____ Period: _____

Genetics Practice Problems

1. Erect ears are dominant over floppy ears in German Shepherds. Cross a heterozygous erect ear with a floppy ear. What are the genotypes and phenotypes of the offspring?

Parent cross: _____ X _____

Genotypes: _____ Phenotypes: _____

Ratio: _____ Ratio: _____

2. Cross a homozygous erect ear with a floppy ear shepherd. What percent of their offspring will have floppy ears?

Parent cross: _____ X _____

Percent with floppy ears: _____

Genetic Ratio: _____

3. In League City, Texas, there is a creature known as a wildcat. It comes in two colors: white and maroon. White is recessive. Cross a white wildcat with a homozygous maroon wildcat.

Parent cross: _____ X _____

What are the possible genotypes? _____ possible phenotypes? _____

What is the phenotypic ratio? _____