

PUNNETT SQUARE WORKSHEET

Name: _____ Date: _____

Punnett Square Practice Worksheet

1) For each of the genotypes (AA, Aa or aa) below determine what the phenotype would be. Purple flowers are dominant to white flowers.

PP _____ Pp _____ pp _____

Hairy knuckles are dominant to non-hairy knuckles in humans.

HH _____ Hh _____ hh _____

Bobtails in cats are recessive. Normal tails are dominant.

TT _____ Tt _____ tt _____

2) For each of the following write whether it is homozygous dominant, heterozygous or homozygous recessive.

AA _____ gg _____

Pp _____ Ii _____

tt _____ TT _____

Use the following information for questions 3-5:

In dogs, the gene for fur color has two alleles. The dominant allele (F) codes for grey fur and the recessive allele (f) codes for black fur.

3) The female dog is heterozygous. The male dog is homozygous recessive. Figure out the percentage or ratio of possible phenotypes and genotypes of their puppies by using a Punnett Square.

Place the alleles for the male parent below. One allele on each line:

% of possible Genotypes:

FF: _____

Ff: _____

ff: _____

Place the alleles for the female parent on the side. One allele on each line: →

% of possible Phenotypes:

Black fur: _____

Grey fur: _____
