Name:	Date:							
	Punnett Square Practice Worksheet							
Purple flow	ne genotypes (AA, Aa or aa) below determine what the phenotype would be. wers are dominant to white flowers.							
PP_	Pp pp							
Hairy knuckles are dominant to non-hairy knuckles in humans.								
	Hh hh							
	n cats are recessive. Normal tails are dominant.							
2) For each of the homozygous received	e following write whether it is homozygous dominant, heterozygous or essive.							
AA	gg							
Pp	Ii							
tt	TT							
In dogs, the gene	ing information for questions 3-5: e for fur color has two alleles. The dominant allele (F) codes for grey fur and the (f) codes for black fur.							
percentage or rat	og is heterozygous. The male dog is homozygous recessive. Figure out the io 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 Ge	enotypes:							
FF:								
Ff:	Place the alleles for the female parent on the							
ff:	side. One allele on each line:							
% of possible Ph Black fur:								
Grey fur:								

Name:	Date:
4) The female dog has black fur. The genotypes of their possible puppies	ne male dog has black fur. Figure out the phenotypes and by using a Punnett Square.
% of possible Genotypes:	
FF:	
Ff:	
ff:	
% of possible Phenotypes: Black fur:	
Grey fur:	
5) The female dog is heterozygous. and genotypes of their possible pup	The male dog is heterozygous. Figure out the phenotypes pies by using a Punnett Square.
% of possible Genotypes:	
FF:	
Ff:	
ff:	
% of possible Phenotypes: Black fur:	
Grey fur:	
· · · · · · · · · · · · · · · · · · ·	ant (E). White eyes are recessive (e). If the female fly has nozygous dominant red eyes, what are the possible offspring?
Genotypes: EE:	Phenotypes: Red Eyes:
Ee: ee:	White Eyes:

Name:	Date:								
	A Little added ch	nallenge							
has a male dog (Gilbert) that hear.	editary deafness caused by	eding purposes							
8) If the dog's genoty the deafness gene will not be (dd). Fill in these two Punne (from question 9) with the deaf	ett squares to illustrate the	ested by breed crosses for yo	ing the dog to	a deaf female					
% of possible Genotypes:									
DD:				1					
Dd:									
dd:									
% of possible Phenotypes: Deaf pups:									
Hearing pups:				_					
Possible Cross 2									
% of possible Genotypes:									
FF:									
Ff:									
ff:									
% of possible Phenotypes: Deaf pups:									
Hearing pups: 9) Explain how could you te	ell the genotype of Gilbert	's male dog?							

`	T			
ľ	Vame:			

Date:\_\_\_\_\_

Use the following for questions 10-11:

Having a widow's peak like Wentworth Miller is dominant.



Not having a widow's peak, like Rihanna, is recessive.

10) If Wentworth Miller is Aa, and he and Rihanna had children, what are the possible phenotypes and genotypes of their children?

11) Look at the phenotypes of Beyonce and Jay Z. If these two had children, could they have children with a widow's peak? Why or why not? Use a Punnett Square to explain your answer.



