Punnett Square Practice Worksheet

Name:			Hour
1) For each	of the genotypes be	elow, determine what the	phenotype would be.
		inant to white flowers.	. 71
•	PP		pp
Hair	y knuckles are dom	inant to non-hairy knuckle	es in humans.
	HH	Hh	_ hh
Bob		essive. Normal tails are de	
	TT		tt
Rou	nd seeds are domin	unt to wrinkled seeds in pe	a nlanta
Rou	RR		
	TCIN	Rr	rr
No-c	left chin is domina	nt. Cleft chin is recessive.	
	CC <u>.</u>		cc
2) For each o homozygous	of the following wri	te whether it is homozygou	us dominant, heterozygous or
AA	Ff	Aa	ក្ខក
AA GG	Ff Pp	Aa ' Ii	gg tt

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. Use a Punnett Square to predict the most likely phenotype ratio and and genotype ratio of their possible puppies.

4)	The female dog has	black fur	. The male	dog has black fur.	,	
Úse	a Punnett Square to	predict the	e most likely	phenotype ratio and	and genotype ratio	of their
pos	sible puppies.		•			

5) The female dog is heterozygous. The male dog is heterozygous. Use a Punnett Square to predict the most likely phenotype ratio and and genotype ratio of their possible puppies.

Use the following information for questions 6-8:

In fruit flies, red eyes are dominant (E). White eyes are recessive (e).

6) A female fly has white eyes, and the male fly is homozygous dominant for red eyes. Use a Punnett Square to predict the percentage of offspring which will probably have red eyes and white eyes

7) A female fly has the EE genotype for eye color. The male fly she mates with also has the EE genotype for eye color. Use a Punnett Square to predict the percentage of offspring which will probably have red eyes and white eyes

	i			
\$ 1.5 mg				
	v			
Use the follo	owing for questions 9-	-11:		
In de has a male d	ogs, there is an heredita og (Gilbert) that she w	ary deafness caused by a reco ants to use for breeding purp	essive gene, " ${f d}$." A kennel ow poses if possible. The dog can b	ner 1ear.
9) W	hat are the two possible	le genotypes of Gilbert?	and	
7				
10) I the deafness	f the dog's genotype is gene will not be passed	Dd , the owner does not wi	sh to use him for breeding so t	hat le
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Use the following for questions 12-13:



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

Not having a widow's peak, like Riha



na, is recessive.

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

13) 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.



