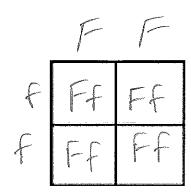
1.	Write the letter of the dominant allele.
2.	Write the letter of the recessive allele.
3.	Write out the homozygous dominant genotype (2 alleles).
	Write out the heterozygous genotype (2 alleles). Ff
5.	Write out the homozygous recessive genotype
6.	Write the genotype for gray fur
7.	Write the genotype for Black fur or
8.	Write the phenotype for #3. Black for
9.	Write the phenotype for #4. Black for
10.	Write the phenotype for #5. Gray Fire

Still using fur color, do the following monohybrid cross problems. (Remember: Black fur is dominant over gray)

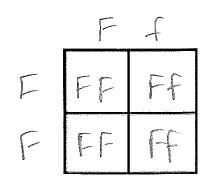


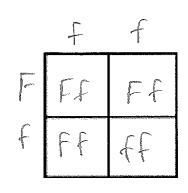
- 1. If the mother is homozygous recessive and the father is homozygous dominant.
  - a) Write the genotype ratio

b) Write the phenotype ratio

- 2. If the mother is heterozygous, and the father is heterozygous.
  - a) Write the genotype ratio

b) Write the phenotype ratio





- 3. If the mother is heterozygous, and the father is homozygous dominant.
  - a)Write the genotype ratio

2 FF

b) Write the phenotype ratio

100% Black for

- 4. If the mother is homozygous recessive, and the father is heterozygous.
  - a) Write the genotype ratio

2 FF

b) Write the phenotype ratio

2 Black for

2 Gray For

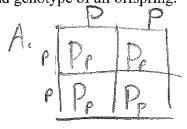
Word Problems using Monohybrid Crosses

1. Purple flowers (P) are dominant to white flowers (p). Perform the following crosses. For each cross, give the phenotype and genotype of all offspring.

A. PP x pp

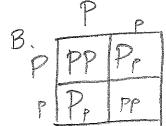
B. Pp x Pp

C. PP x Pp

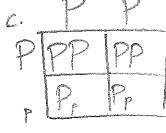


G: 100-1. Pp

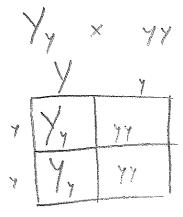
P: 100% Purple

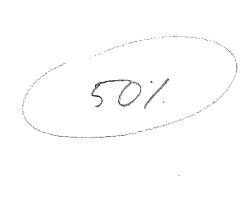


G: 1 PP 2Pp 1pp P: 3 Porple I white



2. In pea plants, yellow seed color is dominant to green seed color. If a heterozygous pea plant is crossed with a plant that is homozygous recessive for seed color, what is the probability that the offspring will have green seeds?





3. If all of the be?	e offspring of a particular cross ha	ave the genotype Gg, what must	the genotype of the parents		
	GG and	9 9			
		over vestigial wings (w). The re	sults of a cross, of		
to prove your		'1 generation offspring? Use a P	unnett square		
	Jw. x ww	50%	Normal wings Vestigial wings		
	W Www.	and the second s			
5. Red eyes (R) in fruit flies are dominant over white eyes (r). Using Punnett squares, find the possible eye colors of the F1 generation for each of the following crosses.					
A. Rr x rr B. rr x RR C. Rr x Rr	A. R.	B. R. R. P. R. R.	C. R. C. R. R. R. C. R.		
	50% Red 50% white	100% Red	75% Red 25% white		

6. The result of a cross is 3 purple flowers and 1 white flower. Using a cross, determine whether a plant with purple flowers is heterozygous (Pp) or homozygous dominant (PP).

