

Name _____ Date _____ Section _____

Genetics HW#1 (REMEMBER TO PRINT IT OUT)

1. For each genotype, indicate whether it is heterozygous, or homozygous dominant or homozygous recessive.

AA _____

Bb _____

Cc _____

Dd _____

ff _____

2. For each of the genotypes below, determine the phenotype.

Brown eyes are dominant to blue eyes

BB _____

Bb _____

bb _____

3. For each phenotype, list the possible genotypes.

Pointed heads are dominant to round heads.

_____ pointed

_____ round

4. Draw a Punnett square to show the cross of a white flower (rr) with a red flower (RR). What are the genotypes and phenotypes of the offspring?

5.If a cross results in 75% purple offspring and 25% white, what were the phenotypes and genotypes of the parents? (use P for purple and p for white)

6.A mother with type AB blood has a child with a father with type O blood. What are the potential blood types of their child?

7.A mother with homozygous type A blood gives birth to a baby with heterozygous type A blood. The “father” has homozygous type B blood. Could the baby be his? Use a Punnett square to prove why or why not!
