Date \_\_\_\_\_

## PROBABILITY AND HEREDITY -Activity 1

## Sample Problems:

1. For each genotype below, indicate whether it is **heterozygous** (**He**) or **homozygous** (**Ho**).

AA	Ee	Ii	Mm
Bb	ff	Jj	nn
Сс	Gg	kk	00
DD	НН	LL	Рр

2. For each of the **genotypes** below determine what **phenotypes** would be possible.

Purple flowers are dominant to white flowers.	Bobtails in cats are recessive.
PP	TT
Pp	Tt
pp	tt

Brown eyes are dominant to blue eyes
BB
Bb
bb

Round seeds are dominant to wrinkled seeds

RR_			
Rr			
rr			

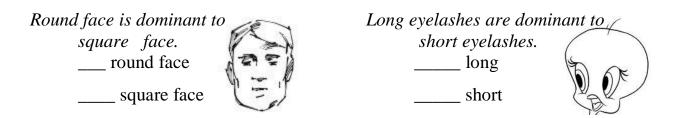
3. For each **phenotype** below, list the **genotypes** (remember to use the letter of the <u>dominant</u> trait).

Straight hair is dominant to curly. \_\_\_\_ straight \_\_\_\_ curly



Pointed heads are domin	nant to
round heads.	AN TOTAL
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4. Set up the Punnet squares for each of the crosses listed below.

Round seeds are dominant to wrinkled seeds.

