

Name _____ Date _____ Period _____

Allele and Trait Practice

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

AA _____	Ee _____	li _____	Mm _____
Bb _____	ff _____	Jj _____	nn _____
Cc _____	GG _____	kk _____	OO _____
Dd _____	HH _____	Ll _____	Pp _____

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

Purple flowers are dominant to white

PP _____
Pp _____
pp _____

Brown eyes are dominant to blue

BB _____
Bb _____
bb _____

Round seeds are dominant to wrinkled

RR _____
Rr _____
rr _____

Bobtails are recessive to Long tails

TT _____
Tt _____
tt _____

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

Straight hair is dominant to curly

_____ straight
_____ straight
_____ curly

Pink flowers are dominant to yellow flowers

_____ pink
_____ pink
_____ Yellow



Punnett Square Practice

1. In turtles, oval shell is dominant to round shell. Cross a round shelled turtle with a heterozygous oval shelled turtle. _____ x _____



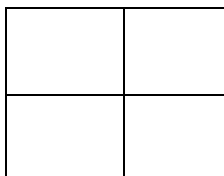
Genotypic Ratio: _____

Genotypic Percentage: _____

Phenotypic Ratio: _____

Phenotypic Percentage: _____

2. In Tyrannosaurus Rexes, long teeth are dominant to short teeth. Cross two short toothed Tyrannosaurs.
_____ x _____



Genotypic Ratio: _____

Genotypic Percentage: _____

Phenotypic Ratio: _____

Phenotypic Percentage: _____

3. In squirrel monkeys, brown eyes are dominant to blue eyes. Cross a homozygous brown eyed monkey with a blue eyed monkey. _____ x _____

Genotypic Ratio: _____
 Genotypic Percentage: _____
 Phenotypic Ratio: _____
 Phenotypic Percentage: _____

4. In salamanders, red bellies are dominant to green bellies. Cross a homozygous dominant salamander with a heterozygous salamander. _____ x _____

Genotypic Ratio: _____
 Genotypic Percentage: _____
 Phenotypic Ratio: _____
 Phenotypic Percentage: _____

5. In high school students, laziness is dominant to diligence. Cross a homozygous lazy student with a diligent student. _____ x _____

Genotypic Ratio: _____
 Genotypic Percentage: _____
 Phenotypic Ratio: _____
 Phenotypic Percentage: _____

6. In snakes, forked tongue is dominant to straight tongue. Cross a homozygous dominant with a homozygous recessive. _____ x _____

Genotypic Ratio: _____
 Genotypic Percentage: _____
 Phenotypic Ratio: _____
 Phenotypic Percentage: _____

7. In great white sharks, tall fins are recessive to short fins. Cross a tall finned shark with a heterozygous short finned shark. _____ x _____

Genotypic Ratio: _____
 Genotypic Percentage: _____
 Phenotypic Ratio: _____
 Phenotypic Percentage: _____