

Name: _____

Genetics Practice Problems (Remote Edition)



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

AA **Ho** Ee **He** Bb **He** ff **Ho**
Pp **He** gg **Ho** Dd **He** HH **Ho**

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

Purple flowers are dominant to white
PP Purple
Pp Purple
pp White

Brown eyes are dominant to blue
BB Brown
Bb Brown
bb Blue

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

Straight hair is dominant to curly
__SS__ straight
__Ss__ straight
__ss__ curly

Tail spikes are dominant to plain tails
SS spikes
Ss spikes
ss plain



4. Complete the Punnett squares for each of the crosses listed below.

Tall (**T**) plants are dominant to short (**t**)

Tt x tt

	<u>T</u>	<u>t</u>
<u>t</u>	Tt	tt
<u>t</u>	Tt	tt

What percentage of the offspring are tall? 50% short? 50%

Tt x Tt

	<u>T</u>	<u>t</u>
<u>T</u>	TT	Tt
<u>t</u>	Tt	tt

What percentage of the offspring are tall? 75% short? 25%



5. A **homozygous tall** plant is crossed with a **short plant**.

Genetics Practice Problems Worksheet Answers

Wenbin Ji



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