

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 Answers

A Loxley



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