

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 7 Answers

Robert R. Redfield



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