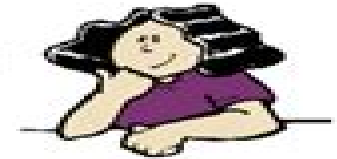


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Genetics Practice Problems (Remote Edition)



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**.

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G Orfield



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