

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

**Peter J. Russell**



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Russell, Benjamin A. Pierce, 1994 Gives full coverage of genetics including the step by step problem solving approach pioneered by the author The book is suitable for students who have a limited background in biology and chemistry or for briefer courses where there is little time to cover advanced topics

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