

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 Answer Key

**Randy L. Bell, Joe Garofalo**



## **Genetics Practice Problems Worksheet Answer Key:**

*Science Units for Grades 9-12* Randy L. Bell, Joe Garofalo, 2005 Sample topics include cell division virtual dissection earthquake modeling the Doppler Effect and more **Holt Biology Chapter Resource File 15** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *Deconstructing Digital Natives* Michael Thomas, 2011-04-19 There have been many attempts to define the generation of students who emerged with the Web and new digital technologies in the early 1990s The term digital native refers to the generation born after 1980 which has grown up in a world where digital technologies and the internet are a normal part of everyday life Young people belonging to this generation are therefore supposed to be native to the digital lifestyle always connected to the internet and comfortable with a range of cutting edge technologies *Deconstructing Digital Natives* offers the most balanced research based view of this group to date Existing studies of digital natives lack application to specific disciplines or conditions ignoring the differences of educational fields and gender How and how much are learners changing in the digital age How can a more pluralistic understanding of these learners be developed Contributors to this volume produce an international overview of developments in digital literacy among today's young learners offering innovative ways to steer a productive path between traditional narratives that offer only complete acceptance or total dismissal of digital natives

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