

## Genetics Unit Test: Practice Guide Answers

### Part A: Complete the following questions:

1.) What is the purpose of a **punnett square**? What does it *show*?

*All possible results of a genetic cross.  
The possible genotypes of the offspring.  
The alleles in the gametes of each parent.*

2.) What is a **genotype**? *Genetic makeup* Give an example of how it is written. *GG*

3.) What is a **phenotype**? *Physical appearance* Give an example of how it is written. *green*

4.) In a **simple dominance** problem involving green pea pods (*green is the dominant color*), what would be two possible genotypes for green pea pods? *GG or Gg* Why are they both green? *the dominant trait is expressed phenotypically.*

5.) In a **simple dominance** problem, what parental genotypes cross to produce a 3:1 phenotypic ratio of green pea pods to yellow pea pods? *Draw an example to the right.*

	<i>G</i>	<i>g</i>
<i>G</i>		
<i>g</i>		

6.) *Same punnett square as #5.*

*Phenotypes = 3 green: 1 yellow Genotypes = 1GG:2Gg:1gg*

7.) What does **homozygous** mean? *Two of the same alleles* What are two other terms meaning the same thing? *pure or purebred*

8.) What does **heterozygous** mean? *Alleles are different* What is one other terms meaning the same thing? *Hybrid*

9.) What does the **Law of Segregation** say? *When organisms reproduce, alleles separate from each other* Is there an equal chance of inheriting each allele from one parent? *yes* How about the other parent? *each parent contributes 50%*

Draw an example punnett square using the sex chromosomes (*Female = XX, Male = XY*).

	<i>X</i>	<i>X</i>
<i>X</i>		
<i>Y</i>		

10.) Snapdragon flowers exist in three color variations; *white, red, and pink*. What **type of inheritance** does this show? *Incomplete dominance* What would be the **genotypes** for each of the phenotypes described above? *To the right, cross a Pink flower with a Pink flower, and give the genotypic and phenotypic ratios.*

Red: *RR*, White: *WW*, Pink: *RW*

	<i>R</i>	<i>W</i>
<i>R</i>		
<i>W</i>		

*Genotypic Ratio: 1RR:2RW:1WW*

*Phenotypic Ratio: 1red:2pink:1white*

# Human Genetics Practice Worksheet 3 Answers

**Michal Rosen-Zvi**



**Human Genetics Practice Worksheet 3 Answers:**

## Adopting the Tune of Phrase: An Emotional Symphony within **Human Genetics Practice Worksheet 3 Answers**

In a global taken by monitors and the ceaseless chatter of immediate connection, the melodic splendor and emotional symphony created by the published word frequently diminish in to the background, eclipsed by the relentless sound and distractions that permeate our lives. However, located within the pages of **Human Genetics Practice Worksheet 3 Answers** a marvelous fictional treasure filled with natural emotions, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, that interesting masterpiece conducts visitors on an emotional trip, well unraveling the concealed melodies and profound affect resonating within each carefully crafted phrase. Within the depths of this poignant assessment, we will investigate the book is main harmonies, analyze their enthralling writing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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