

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*

Genotypic Ratio: 1RR:2RW:1WW

Phenotypic Ratio: 1red:2pink:1white

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

Introduction To Genetics Chapter 1 worksheet Answer Key

RD Boyd



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web predictions from reliable sources have been used for these elements grayed out electron numbers indicate subshells filled to their maximum bracketed noble gas symbols on the left represent inner configurations that are the same in each period written out these are $he\ 2$ helium $1s^2$ $ne\ 10$ neon $1s^2\ 2s^2\ 2p^6$

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blocks depending on their electron configuration