### Genetics Unit Test: Practice Guide Answers

#### Part A: Complete the following questions:

1.) What is the <u>purpose</u> 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.

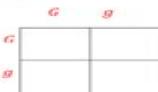
2.) What is a genotype? Genetic makeup Give an example of how it is written. GG

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 <u>parental genotypes</u> cross to produce a 3:1 <u>phenotypic</u> ratio of green pea pods to yellow pea pods? <u>Draw an example</u> to the right.

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%

<u>Draw an example</u> punnett square using the sex chromosomes (Female = XX, Male = XY).



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

# **Human Genetics Disorders Guide Answers**

**Ying-Ying Zheng** 

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