

## 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 Disorders Guide Answers

**ML Morrison**



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