

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

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Table of Contents Human Heredity Test Answers

1. Understanding the eBook Human Heredity Test Answers
 - The Rise of Digital Reading Human Heredity Test Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Human Heredity Test Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Human Heredity Test Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Human Heredity Test Answers
 - Personalized Recommendations
 - Human Heredity Test Answers User Reviews and Ratings
 - Human Heredity Test Answers and Bestseller Lists
5. Accessing Human Heredity Test Answers Free and Paid eBooks
 - Human Heredity Test Answers Public Domain eBooks
 - Human Heredity Test Answers eBook Subscription Services
 - Human Heredity Test Answers Budget-Friendly Options
6. Navigating Human Heredity Test Answers eBook Formats

- ePub, PDF, MOBI, and More
- Human Heredity Test Answers Compatibility with Devices
- Human Heredity Test Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Human Heredity Test Answers
 - Highlighting and Note-Taking Human Heredity Test Answers
 - Interactive Elements Human Heredity Test Answers
- 8. Staying Engaged with Human Heredity Test Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Human Heredity Test Answers
- 9. Balancing eBooks and Physical Books Human Heredity Test Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Human Heredity Test Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Human Heredity Test Answers
 - Setting Reading Goals Human Heredity Test Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Human Heredity Test Answers
 - Fact-Checking eBook Content of Human Heredity Test Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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