

Problem Set 1: Normal Monohybrid Mendelian Genetics

1. In pea plants, spherical seeds (S) are dominant to dented seeds (s). In a genetic cross of two plants that are heterozygous for the seed shape trait, what fraction of the offspring should have spherical seeds? **3/4**
2. A phenotypic ratio of 3:1 in the offspring of a mating of two organisms for a single trait is expected when: **there is a monohybrid cross or both parents are heterozygous**
3. In Mendel's "Experiment 1," true breeding pea plants with spherical seeds were crossed with true breeding plants with dented seeds. (Spherical seeds are the dominant characteristic). Mendel collected the seeds from this cross, grew F1-generation plants, let them self-pollinate to form a second generation, and analyzed the seeds of the resulting F2 generation. The results that he obtained, and that you would predict for this experiment are: **3 spherical seeds: 1 dented seed**
4. A genetic cross between two F1-hybrid pea plants for spherical seeds will yield what percent spherical-seeded plants in the F2 generation? **75%** (spherical is dominant over dented) A genetic cross between two F1-hybrid pea plants having yellow seeds will yield what percent green-seeded plants in the F2 generation? **25%** Yellow seeds are dominant to green.
5. When true-breeding tall stem pea plants are crossed with true-breeding short stem pea plants, all of the **F1** plants, and 3/4 of the **F2** plants had tall stems. Therefore, tall stems are dominant.
6. To identify the genotype of yellow-seeded pea plants as either homozygous dominant (YY) or heterozygous (Yy), you could do a test cross with plants of genotype **yy**. A test cross is used to determine if the genotype of a plant with the dominant phenotype is homozygous or heterozygous. If the unknown is homozygous, all of the offspring of the test cross have the **Y** phenotype. If the unknown is heterozygous, half of the offspring will have the **Y or y** phenotype.
7. In Mendel's experiments, if the gene for tall (T) plants was incompletely dominant over the gene for short (t) plants, what would be the result of crossing two Tt plants? **1 tall: 2 medium: 1 short**
8. A genetic cross of inbred snapdragons with red flowers with inbred snapdragons with white flowers resulted in F1-hybrid offspring that all had pink flowers. When the F1 plants were self-pollinated, the resulting F2-generation plants had a phenotypic ratio of 1 red: 2 pink: 1 white. The most likely explanation is: **incomplete dominance**
9. Human blood type is determined by co-dominant alleles. There are three different alleles, known as I^A , I^B , and i . The I^A and I^B alleles are co-dominant, and the i allele is recessive.

The possible human phenotypes for blood group are type A, type B, type AB, and type O. Type A and B individuals can be either homozygous ($I^A I^A$ or $I^B I^B$, respectively), or heterozygous ($I^A i$ or $I^B i$, respectively).

A woman with type A blood and a man with type B blood could potentially have offspring with which of the following blood types? **All four blood types because parents are $I^A i$ and $I^B i$**

Genetics Problem Set And Solutions

Shasha Hu



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1. Understanding the eBook Genetics Problem Set And Solutions
 - The Rise of Digital Reading Genetics Problem Set And Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Genetics Problem Set And Solutions
 - 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 Genetics Problem Set And Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Genetics Problem Set And Solutions
 - Personalized Recommendations
 - Genetics Problem Set And Solutions User Reviews and Ratings
 - Genetics Problem Set And Solutions and Bestseller Lists
5. Accessing Genetics Problem Set And Solutions Free and Paid eBooks
 - Genetics Problem Set And Solutions Public Domain eBooks
 - Genetics Problem Set And Solutions eBook Subscription Services
 - Genetics Problem Set And Solutions Budget-Friendly Options
6. Navigating Genetics Problem Set And Solutions eBook Formats

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- Genetics Problem Set And Solutions Compatibility with Devices
- Genetics Problem Set And Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Genetics Problem Set And Solutions
 - Highlighting and Note-Taking Genetics Problem Set And Solutions
 - Interactive Elements Genetics Problem Set And Solutions
- 8. Staying Engaged with Genetics Problem Set And Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Genetics Problem Set And Solutions
- 9. Balancing eBooks and Physical Books Genetics Problem Set And Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Genetics Problem Set And Solutions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Genetics Problem Set And Solutions
 - Setting Reading Goals Genetics Problem Set And Solutions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Genetics Problem Set And Solutions
 - Fact-Checking eBook Content of Genetics Problem Set And Solutions
 - 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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