

Crosses Involving Multiple Alleles

In previous activities, every gene was considered to have only two possible alleles. For example, the alleles of the gene for plant height in peas are either tall or short, and the alleles of the gene for fruit color in squash are either yellow or white. However, there are genes for which more than two different alleles exist. When this is the case the alleles are referred to as multiple alleles.

As you know, a diploid individual can carry only two alleles for any gene. This is because for each gene one allele is carried on each of the two chromosomes that constitute a pair of homologous chromosomes. But in a population of individuals, more than two alleles of a gene can exist. For example, one individual may have alleles 1 and 2 of a particular gene while another individual may have alleles 2 and 3 of that same gene. The best known example of multiple alleles involves the gene for blood type in humans. This gene has three different alleles and is located on chromosome 9, two copies of which exist in all human body cells. The alleles of this gene are designated as follows:

- I^A —codes for type A blood
- I^B —codes for type B blood
- i —codes for type O blood

I^A and I^B are each dominant over i , but are not dominant over each other. The possible genotypes and corresponding blood types are as follows:

genotype	phenotype (blood type)
ii	O
$I^A i$	A
$I^A I^A$	A
$I^B i$	B
$I^B I^B$	B
$I^A I^B$	AB

SAMPLE PROBLEM

A woman with type A blood whose father was type O married a man with type AB blood. What will be the possible genotypes and phenotypes of their children?

Step 1 Determine the genotypes of the parents.

Type A woman with type O father: $I^A i$

Type AB man: $I^A I^B$

$I^A i \times I^A I^B$

Step 2 Determine the gamete genotypes produced by each parent.

$I^A i \rightarrow I^A, i$

$I^A I^B \rightarrow I^A, I^B$

Step 3 Set up a Punnett square using the gamete genotypes.

	I^A	i
I^A		
I^B		

Genetics Problem Solving Crosses Involving One Trait

Brendan G. Carr



Genetics Problem Solving Crosses Involving One Trait:

Genetics Problem Solving Crosses Involving One Trait Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Genetics Problem Solving Crosses Involving One Trait**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Genetics Problem Solving Crosses Involving One Trait

1. Understanding the eBook Genetics Problem Solving Crosses Involving One Trait
 - The Rise of Digital Reading Genetics Problem Solving Crosses Involving One Trait
 - Advantages of eBooks Over Traditional Books
2. Identifying Genetics Problem Solving Crosses Involving One Trait
 - 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 eBook Genetics Problem Solving Crosses Involving One Trait
 - User-Friendly Interface
4. Exploring eBook Recommendations from Genetics Problem Solving Crosses Involving One Trait
 - Personalized Recommendations
 - Genetics Problem Solving Crosses Involving One Trait User Reviews and Ratings
 - Genetics Problem Solving Crosses Involving One Trait and Bestseller Lists

5. Accessing Genetics Problem Solving Crosses Involving One Trait Free and Paid eBooks
 - Genetics Problem Solving Crosses Involving One Trait Public Domain eBooks
 - Genetics Problem Solving Crosses Involving One Trait eBook Subscription Services
 - Genetics Problem Solving Crosses Involving One Trait Budget-Friendly Options
6. Navigating Genetics Problem Solving Crosses Involving One Trait eBook Formats
 - ePub, PDF, MOBI, and More
 - Genetics Problem Solving Crosses Involving One Trait Compatibility with Devices
 - Genetics Problem Solving Crosses Involving One Trait Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Genetics Problem Solving Crosses Involving One Trait
 - Highlighting and Note-Taking Genetics Problem Solving Crosses Involving One Trait
 - Interactive Elements Genetics Problem Solving Crosses Involving One Trait
8. Staying Engaged with Genetics Problem Solving Crosses Involving One Trait
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Genetics Problem Solving Crosses Involving One Trait
9. Balancing eBooks and Physical Books Genetics Problem Solving Crosses Involving One Trait
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Genetics Problem Solving Crosses Involving One Trait
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Genetics Problem Solving Crosses Involving One Trait
 - Setting Reading Goals Genetics Problem Solving Crosses Involving One Trait
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Genetics Problem Solving Crosses Involving One Trait
 - Fact-Checking eBook Content of Genetics Problem Solving Crosses Involving One Trait
 - 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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