

Worksheet: Multiple Allele Crosses

UNIT 3 : GENETICS

Directions: Answer the following genetic cross problems. You can refer to the "Punnett Square Cheat Sheet" attached at the end of this worksheet to help you solve the different types of problems. It is essential that you know all of the vocabulary included in the "cheat sheet" as well. Remember when you are doing a genetic cross to follow the steps below to complete!

STEP 1: Determine what kind of problem you are trying to solve.

STEP 2: Determine letters you will use to specify traits.

STEP 3: Determine parent's genotypes.

STEP 4: Make your Punnett square and make gametes.

STEP 5: Complete cross and determine possible offspring.

STEP 6: Determine genotypic and phenotypic ratios.

Multiple Allele Genetic Crosses

So far we have studied traits or genes that are coded for by just two alleles. Like in rabbits, there was one allele for brown hair color and one allele for white hair. However, some traits are coded for by more than two alleles. One of these is blood type in humans. This is a violation of Mendel's Principle of unit characteristics.

1. In humans, there are four types of blood; type A, type B, type AB, and type O. The alleles A and B are codominant to each other and the O allele is recessive to both A and B alleles. So a person with the genotype AA or AO will have A type of blood.

a. What possible genotypes will produce B type of blood? _____

b. What is the only genotype that will produce O type of blood? _____

c. What is the only genotype that will produce AB type of blood? _____

2. You are blood type O and you marry a person with blood type AB.

a. Complete a Punnett square for this cross.

b. List the possible blood types (phenotypes) of your offspring.

Genetics Practice Problems Abo Multiple Allele Answers

Peipei Pang



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Table of Contents Genetics Practice Problems Abo Multiple Allele Answers

1. Understanding the eBook Genetics Practice Problems Abo Multiple Allele Answers
 - The Rise of Digital Reading Genetics Practice Problems Abo Multiple Allele Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Genetics Practice Problems Abo Multiple Allele 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 Genetics Practice Problems Abo Multiple Allele Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Genetics Practice Problems Abo Multiple Allele Answers
 - Personalized Recommendations
 - Genetics Practice Problems Abo Multiple Allele Answers User Reviews and Ratings

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