

Genetics Problems

1. Suppose a father of blood type B and a mother of blood type B have a child of type O. What are the genotypes of the parents and child?
 (Specify all the mother's and father's)

Answer: $I^A I^a$; $I^A I^a$

2. Suppose a father of blood type B and a mother of blood type B have a child of type O. What are the chances that their next child will be blood type O? Type B? Type A? Type AB?

Answers: 25% or 1/4 ; Type B: 50% or 1/2 ; Type A: 50% ; Type AB: 0%

3. Why is blood type inheritance an example of both codominance and complete dominance?

Answer: A and B are codominant: these are expressed equally in the phenotype when present in a cell together ($I^A I^B$). And both alleles A and B are dominant over allele O, which is present in the heterozygous phenotype ($I^A I^O$ or $I^B I^O$).

4. Sickle-cell anemia is a condition in which the structural unit of an individual's hemoglobin differs from the normal (Hb^A). The change produces that red blood cells from people having normal blood proteins do not react to the sickle-shaping, blocking blood flow and causing pain, infection, and organ damage. This shows that, because sickle-cell anemia is autosomal recessive (eg. and the dominant allele can be represented by A)

(a) For the following families, determine the genotypes of the parents and offspring. When it is not possible to decide which genotype an individual is, list both.

(i) Two normal parents have four normal children and two with sickle-cell anemia.
 Parents: $Hb^A Hb^A$; $Hb^A Hb^A$; Offspring: either $Hb^A Hb^A$ or $Hb^A Hb^S$; (sick cells)

(ii) A normal male and a female with sickle-cell anemia have a children, all normal.
 Parents: $Hb^A Hb^A$; $Hb^A Hb^S$; Offspring: either $Hb^A Hb^A$ or $Hb^A Hb^S$; (sick cells)

(iii) A normal male and a female with sickle-cell anemia have six children. Three are normal, and three have sickle-cell anemia.

Parents: $Hb^A Hb^A$; $Hb^A Hb^S$;
 Offspring: either $Hb^A Hb^A$ or $Hb^A Hb^S$;
 3 normal children ; 3 sickle-cell anemia children ; (sick cells)

(iv) Sickle-cell is pedigree chart for the families in (i) and (ii).



Genetic Problems Answers

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Table of Contents Genetic Problems Answers

1. Understanding the eBook Genetic Problems Answers
 - The Rise of Digital Reading Genetic Problems Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Genetic Problems 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 Genetic Problems Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Genetic Problems Answers
 - Personalized Recommendations

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