

Genetics Problems

1. Suppose a father of blood type A and a mother of blood type B have a child of type O. What are the possible blood types of the mother and father?

Father: $I^A I^i$ Mother: $I^B I^i$

2. Suppose a father of blood type B and a mother of blood type O 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?

type O: 50% or $\frac{1}{2}$

Type B: 50% or $\frac{1}{2}$

Type A: 0%

Type AB: 0%

!

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

Alleles A and B are codominant – they are expressed equally (at the same time) when present in a cell (genotype $I^A I^B$), but both alleles A and B are dominant over allele O, when present in the heterozygous genotype ($I^A I^i$ or $I^B I^i$)

4. Sickle-cell anemia is a condition in which the red blood cells of an individual can become shaped like the letter “C.” This shape prevents the red blood cells from moving easily through blood vessels. It can result in the cells clumping, blocking blood flow and causing pain, infection, and organ damage. The allele that causes sickle-cell anemia is autosomal recessive (s), and the dominant allele can be represented by S .

(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 one with sickle-cell anemia.

Parents both Ss

normal children: either Ss or SS

child with sickle cell anemia: ss

(ii) A normal male and a female with sickle-cell anemia have six children, all normal.

normal male: most likely SS , but could be Ss (sample size is too small to tell for sure);

female: ss

6 normal offspring: Ss

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

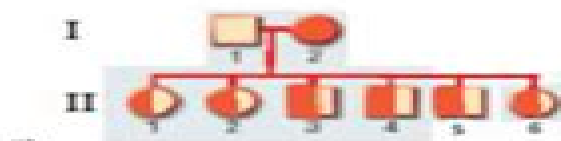
Normal male: Ss

female with sickle cell anemia: ss

3 normal children: Ss

3 children with sickle cell anemia: ss

(b) Construct a pedigree chart for the families in (ii) and (iii).



Genetics Problems Worksheet And Answers

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Genetics Problems Worksheet And Answers:

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Table of Contents Genetics Problems Worksheet And Answers

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

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