

Investigation: A Human Pedigree

Introduction: A sex-linked characteristic is determined by an allele that is carried only on the X chromosome. The shorter Y chromosome does not carry an allele for a sex-linked trait. Most sex-linked traits are recessive. Since there is only one X in his genotype, XY, a male who carries a particular recessive allele on the X chromosome will have the sex-linked condition. A female who carries a recessive allele in one X chromosome will not show the condition if there is a dominant allele on her other X chromosome. She will express the recessive condition only if she inherits two recessive alleles—one from each parent. Her chances of inheriting the condition are thus greatly reduced.

One sex-linked trait is hemophilia, a condition in which the blood does not clot properly. Most people who have hemophilia are men. In this investigation you will determine why this is so.

Procedure:

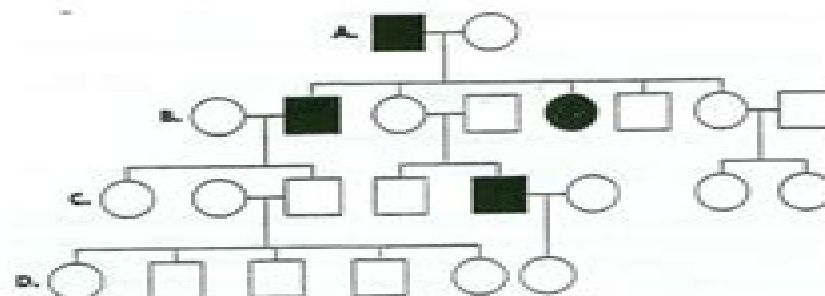


Figure A

1. Study the pedigree for hemophilia shown in Figure A. In a pedigree, a square represents a male. If it is darkened, he has hemophilia; if it is clear, he has normal blood clotting. How many males represented in Figure A have hemophilia? How many males are normal?
2. A circle represents a female. If it is darkened, she has hemophilia; if clear, she is normal. How many females in Figure A have hemophilia? How many are normal?
3. A marriage is indicated by a horizontal line connecting a circle to a square. How many marriages are indicated in Figure A?
4. A line perpendicular to a marriage line indicates offspring. If the line ends with either a circle or square, the couple had only one child. However, if the line is connected to another horizontal line, then several children were produced, each indicated by a short vertical line connected to the horizontal line. The first child appears to the left and the last child to the right. How many children did the first couple have?
5. Level B represents the second generation. Level C represents the third generation, and so on. How many generations are represented in Figure A?
6. The genotypes of the males in a pedigree for sex-linked inheritance are easy to determine since normal clotting (N) is dominant and hemophilia is recessive (n). Since these alleles are on the X chromosome only, a male represented by a clear square will have the genotype $X^N Y$. One represented by a darkened square will be $X^n Y$. Label the genotypes of all the squares. How many

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Table of Contents Sample Mcq Human Pedigree Questions

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

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