

Pedigree Worksheet

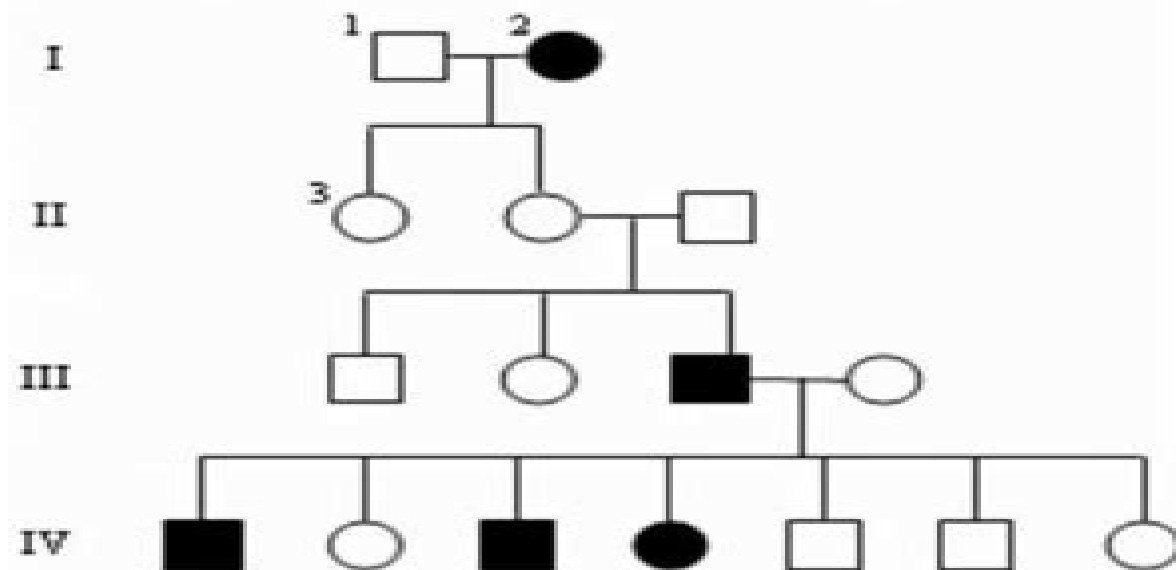
Name: _____ P _____

A sex-linked recessive characteristic is determined by an allele that is carried only on the X chromosomes. The shorter Y chromosome does not carry an allele for a sex-linked trait. 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.

A. Interpreting a human pedigree. (In Class)

1. Number all individuals on the pedigree at the top of each shape.
2. How many males are there? _____
3. How many males have hemophilia? _____
4. How many female are there? _____
5. How many females have hemophilia? _____
6. How many marriages are there? _____
7. How many children did the first couple (couple in row I) have? _____
8. How many children did the third couple (couple in row III) have? _____
9. How many generations are there? _____
10. How many members are there in the fourth generation? _____

The genotypes of the males in a pedigree for sex-linked inheritance are easy to determine since normal blood 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_NY . A darkened square will be X_nY . Label *under* each individual on the pedigree. Females with hemophilia have an easy genotype to identify. They are all X_nX_n . Both recessive alleles must be present for a female to have hemophilia. If one dominant allele is present (X_N), the individual would be normal for clotting. Females who do not show the trait for hemophilia may be homozygous dominant (X_NX_N) or heterozygous (X_NX_n). A heterozygous female is called a carrier. Examination of offspring can often determine which genotype the parents have. If any child (son or daughter) has hemophilia, then the female must be heterozygous. If her son has hemophilia, he has genotype X_nY . He inherited the Y from the father, so the other allele is his genotype (X_n) had to come from the mother. If a daughter has hemophilia (X_nX_n), she inherited an X_n from each parent, thus making the genotype for the normal mother X_NX_n .



11. What is the genotype for Individual #1?

Phenotype?

12. What is the genotype for Individual #10?

Phenotype?

13. What is the genotype for the first born male in generation III?

Phenotype?

14. How many females have the genotype X_NX_n ?

15. What would be the genotype for the female who marries into the family in generation III?

Genetics Pedigree Worksheet Dimples Answers

RD Boyd



Genetics Pedigree Worksheet Dimples Answers:

Glencoe Science ,2002

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Table of Contents Genetics Pedigree Worksheet Dimples Answers

1. Understanding the eBook Genetics Pedigree Worksheet Dimples Answers
 - The Rise of Digital Reading Genetics Pedigree Worksheet Dimples Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Genetics Pedigree Worksheet Dimples 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 Pedigree Worksheet Dimples Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Genetics Pedigree Worksheet Dimples Answers
 - Personalized Recommendations
 - Genetics Pedigree Worksheet Dimples Answers User Reviews and Ratings
 - Genetics Pedigree Worksheet Dimples Answers and Bestseller Lists

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