

Name :

Number :

Period :

Pedigrees

You can look at a pedigree and determine whether traits are dominant or recessive, and you can also tell if it is sex-linked or autosomal.

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 on 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. View the pedigree below and interpret the diagram to answer the questions.

1. Number all individuals on the pedigree at the top of each shape.

2. In a pedigree a square represents a male. If it is darkened he has hemophilia; if clear, he had normal blood clotting.

- a. How many males are there? _____
b. How many males have hemophilia? _____

3. A circle represents a female. If it is darkened, she has hemophilia; if open she is normal.

- a. How many females are there? _____
b. How many females have hemophilia? _____

4. A marriage is shown by a horizontal line connecting a circle to a square.

- a. How many marriages are there? _____

5. A line perpendicular to a marriage line indicates the offspring. If the line ends with either a circle or a square, the couple had only one child. However, if the line is connected to another horizontal line, then several children were produced, each shown by a short vertical line connected to the horizontal line. The first child born appears to the left and the last born to the right.

- a. How many children did the couple in row I have? _____
b. How many children did the couple in row II have? _____

6. Level I represents the first generation, level II represents the second generation.

- a. How many generations are there? _____
b. How many members are there in the fourth generation? _____

7. 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 male on the pedigree.

- a. What is the genotype for Individual #1? _____ Phenotype? _____
b. What is the genotype for Individual #10? _____ Phenotype? _____
c. What is the genotype for the first born male in generation III? _____ Phenotype? _____

8. 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.

- a. How many females have the genotype X^nX^n ? _____

9. 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 .

- a. What would be the genotype for the female who marries into the family in generation III? _____
b. How did you determine her genotype? _____



Human Pedigree Packet Answer Key

Eric Strauss, Marylin Lisowski



Human Pedigree Packet Answer Key:

Biology Eric Strauss, Marylin Lisowski, 2000 **The American Biology Teacher** ,2003 **Making Schools Work for Every Child** ,2000 **ENC Focus** ,2000 Director's Report National Institutes of Health (U.S.). Division of Computer Research and Technology, 1994 **Life: The Science of Biology** David E. Sadava, 2011 This text aims to establish biology as a discipline not just a collection of facts Life develops students understanding of biological processes with scholarship a smooth narrative experimental contexts art and effective pedagogy **Biology** ,1984 *Library Journal* ,1975 **ENC Focus a Magazine for Classroom Innovators** ,2000 *Counterfeit Medicines: Policy, economics, and countermeasures* Albert I. Wertheimer, Perry G. Wang, 2012 Discusses the economic and financial consequences of pharmaceutical product counterfeiting and describes some of the measures that can be taken to counteract their impact Provided by publisher **Aerospace** ,1985 Nomination of Andrew Von Eschenbach and Paul DeCamp United States. Congress. Senate. Committee on Health, Education, Labor, and Pensions, 2007 **The Ohio Farmer** ,1919 *Catalog of Cell Lines* ,1994

Service Orientation in Holonic and Multi Agent Manufacturing and Robotics Theodor Borangiu, Andre Thomas, Damien Trentesaux, 2013-02-15 The book covers four research domains representing a trend for modern manufacturing control Holonic and Multi agent technologies for industrial systems Intelligent Product and Product driven Automation Service Orientation of Enterprise s strategic and technical processes and Distributed Intelligent Automation Systems These evolution lines have in common concepts related to service orientation derived from the Service Oriented Architecture SOA paradigm The service oriented multi agent systems approach discussed in the book is characterized by the use of a set of distributed autonomous and cooperative agents embedded in smart components that use the SOA principles being oriented by offer and request of services in order to fulfil production systems and value chain goals A new integrated vision combining emergent technologies is offered to create control structures with distributed intelligence supporting the vertical and horizontal enterprise integration and running in truly distributed and global working environments The service value creation model at enterprise level consists into using Service Component Architectures for business process applications based on entities which handle services In this componentization view a service is a piece of software encapsulating the business control logic or resource functionality of an entity that exhibits an individual competence and responds to a specific request to fulfil a local product or global batch objective The service value creation model at enterprise level consists into using Service Component Architectures for business process applications based on entities which handle services In this componentization view a service is a piece of software encapsulating the business control logic or resource functionality of an entity that exhibits an individual competence and responds to a specific request to fulfil a local product or global batch objective *Remains, Historical and Literary, Connected with the Palatine Counties of Lancaster and Chester* ,1857 *Comfort* ,1900 The Private Journal and Literary Remains of John Byrom John Byrom, 1857 Farmers' Review

,1902 **The Wisconsin Farmer** ,1892

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Table of Contents Human Pedigree Packet Answer Key

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

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