

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

### Pedigree Worksheet

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

#### A. Interpreting a human pedigree. (30 points)

Use Figure A to answer the questions below.

- Number all individuals on the pedigree at the top of each shape.
- In a pedigree, a square represents a male. If it is darkened he has hemophilia; if clear, he had normal blood clotting.
  - How many males are there? \_\_\_\_\_
  - How many males have hemophilia? \_\_\_\_\_
- A circle represents a female. If it is darkened, she has hemophilia; if open she is normal.
  - How many female are there? \_\_\_\_\_
  - How many females have hemophilia? \_\_\_\_\_
- A marriage is indicated by a horizontal line connecting a circle to a square.
  - How many marriages are there? \_\_\_\_\_
- 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 indicated 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.
  - How many children did the first couple (couple in row I) have? \_\_\_\_\_
  - How many children did the third couple (couple in row III) have? \_\_\_\_\_
- Level I represent the first generation, level II represents the second generation.
  - How many generations are there? \_\_\_\_\_
  - 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  $X^N Y$ . A darkened square will be  $X^n Y$ . Label under each individual on the pedigree.
  - What is the genotype for Individual #1? \_\_\_\_\_ Phenotype? \_\_\_\_\_
  - What is the genotype for Individual #10? \_\_\_\_\_ Phenotype? \_\_\_\_\_
  - What is the genotype for the first born male in generation III? \_\_\_\_\_ Phenotype? \_\_\_\_\_
- Females with hemophilia have an easy genotype to identify. They are all  $X^n X^n$ . 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.
  - How many females have the genotype  $X^N X^n$ ? \_\_\_\_\_
- Females who do not show the trait for hemophilia may be homozygous dominant ( $X^N X^N$ ) or heterozygous ( $X^N X^n$ ). 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  $X^n Y$ . 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 ( $X^n X^n$ ), she inherited an  $X^n$  from each parent, thus making the genotype for the normal mother  $X^N X^n$ .
  - What would be the genotype for the female who marries into the family in generation III? \_\_\_\_\_

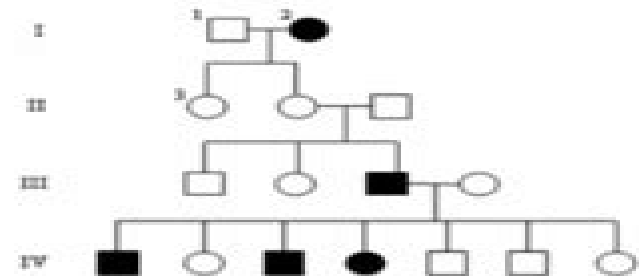


Figure A

# Lab 11 Constructing A Human Pedigree Answers

**G Thomas**



## **Lab 11 Constructing A Human Pedigree Answers:**

## Lab 11 Constructing A Human Pedigree Answers Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Lab 11 Constructing A Human Pedigree Answers**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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## Lab 11 Constructing A Human Pedigree Answers Introduction

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading Lab 11 Constructing A Human Pedigree Answers free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading Lab 11 Constructing A Human Pedigree Answers free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying the file type as "PDF," users can find websites that offer free PDF downloads on a specific topic. While downloading Lab 11 Constructing A Human

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