

# Pedigree Worksheet

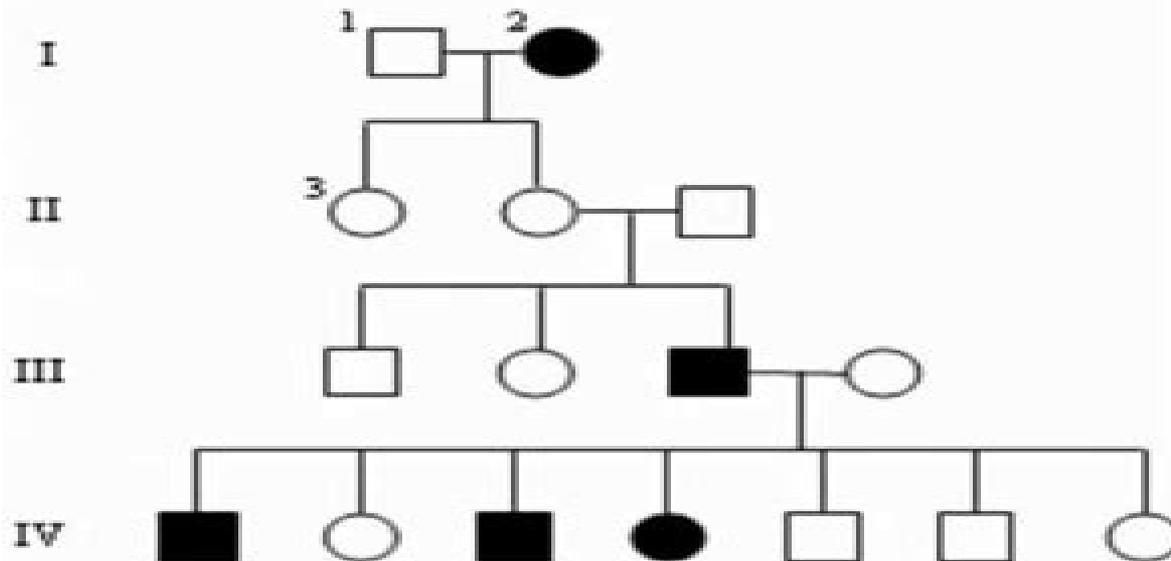
Name: \_\_\_\_\_ P \_\_\_\_\_

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  $X^N Y$ . A darkened square will be  $X^n Y$ . Label *under* each individual on the pedigree. 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. 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  $X^N X^n$ .



11. What is the genotype for Individual #17?

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  $X^N X^n$ ?

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

# Genetics Pedigree Worksheet Dimples Answers

**M Planty**



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*Glencoe Science ,2002*

The Top Books of the Year Genetics Pedigree Worksheet Dimples Answers The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Genetics Pedigree Worksheet Dimples Answers : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Genetics Pedigree Worksheet Dimples Answers : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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