

Genetics Practice Problems: Pedigree Tables

Remember the following when working pedigree tables:

- 1) Circles are females and squares are males.
- 2) A shaded circle or square indicates that a person has the trait.

The pedigree chart below is the inheritance of color blindness. Shaded individuals are colorblind. First, determine the probable genotype of persons 1 - 15. Then answer the questions below the table.



What are the genotypes of the parents of 1?

These parents (1) had a color blind son (2). His dad is normal, his color blind mom, from his mother. Since the mother is not shaded she must be a carrier.

Number 3 is color blind just like his father. Where could he get his allele for color blindness?

Yes, he could get his allele for color blindness from his mother. Most males have 1 chromosome from their father.

Number numbers 11 and 12 were color blind. How did they have a color blind son (13)?

Both mother and father are carriers for color blindness.

What must be the genotype of the parents of a color blind daughter (14)?

To have a color blind daughter, she would have to inherit the color blind allele from each parent. Her father must be $X^b Y$ and mother would have to be $X^B X^b$.

If number 14 has a normal son, what is the probability that their son will be color blind?

$X^B X^b \times X^b Y \rightarrow$ all of their sons will be color blind.

Memorandum For Genetic Practice Problem Pedigree Tables

R Pring



Memorandum For Genetic Practice Problem Pedigree Tables:

Memorandum For Genetic Practice Problem Pedigree Tables Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Memorandum For Genetic Practice Problem Pedigree Tables**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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