

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 person 1 - 15. Then answer the questions below the table.



What do you know about the genotype of the mother of I?

These parents (I) had a color blind son (II). His dad is a carrier, but color blind. Where does his mother come from? Her mother is not shaded, she must be a carrier.

Number II 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 number II and II were color blind. How did they have a color blind son (II)?

That mother must be a carrier for color blindness.

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

To have a color blind daughter, she must have the recessive allele from both parents. Her father must be $X^b Y$ and mother must have $X^b X^b$ or $X^B X^b$.

If number II 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 have color blind.

Genetic Practice Problems Pedigree Tables

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