

Genetics Practice Problems: Pedigree Tables

Remember the following when working pedigree tables:

- [I] Circles are females and squares are males.
- [I] A shaded circle or square indicates that a person has the trait.

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



What do you know about the genotype of the mother of I-1?

These parents (I-1 and an color blind female) the had five children, but color blind males from his mother. Since the mother is not shaded she must be a carrier.

Number II-3 is colorblind just like his father. Where could he get his allele for colorblindness?

Yes, he could get his allele for colorblindness from his mother. Most males have 1 chromosome from their fathers.

Number number II and II were colorblind. How many have a colorblindness [X^bY]

Yes, number I-1, II-2, II-4, and II-6 are colorblindness.

What must be the genotype of the parents of a colorblind daughter? Explain.

To have a color blind daughter, she must have the recessive allele on both of her parents. Her father must be X^bY and mother must have to be X^bX^b.

If number II-3 has a normal son, what is the probability that their son will be colorblind?

$X^B X^b \times X^B Y \rightarrow$ all of their sons will not be color blind.

(Carrier) (normal)

Genetics Practice Problems Pedigree Tables Key

IM Harris



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