

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 do you know about the genotype of the mother of 1?

These parents (1) had a color blind son (2). His dad has no disease, but color blind allele came from his mother. Since the mother is not shaded, she must be a carrier.

Number 3 is colorblind, just like her father. Where could she get her allele for colorblindness?

She inherited her allele for colorblindness from her mother. Must have been that 2's chromosomes from their father.

Number numbers 11 and 12 were colorblind. How did they have a colorblind son (14)?

Both mother and father are carriers for color blindness.

What must be the genotype of the parents of a colorblind daughter (15)?

To have a color blind daughter, she must have the recessive allele from each parent. Her father must be X^N Y and mother must have to be X^N X^N.

If number 14 marries a normal man, what is the probability that their sons will be colorblind?

$X^N X^N \times X^N Y \rightarrow$ all of their sons will have color blind.

Genetics Practice Problems Pedigree Tables Key

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