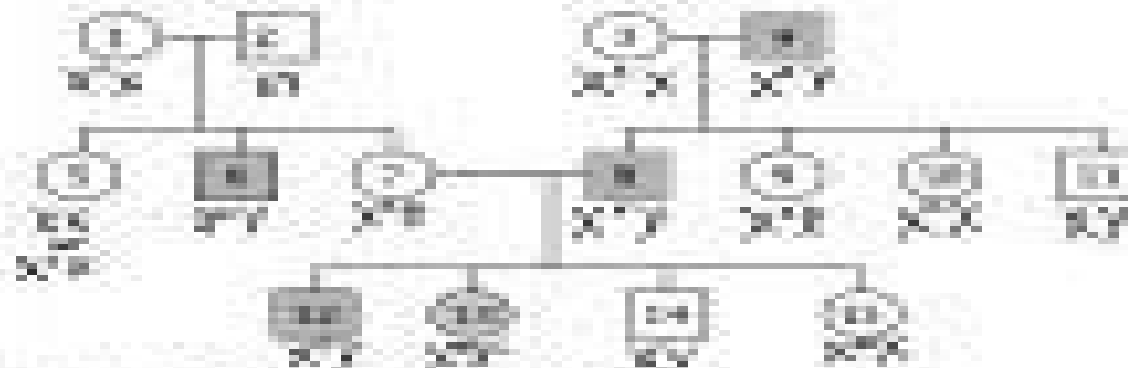


Genetics Practice Problems: Pedigree Tables

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 seen below is the inheritance of a trait. Shaded individuals are affected. 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 1?

These people (1) had an affected son (2). His dad is unknown, but affected. When you know mother's name, the mother is not shaded, she must be a carrier.

Number 3 is unaffected, but the father (4) is affected, so he is a carrier for the trait.

Yes, unaffected, but affected for autosomal recessive. From her mother (6) and father (4) - 1 carrier, 1 affected, from their father.

Number number 11 and 12 were affected. How many have a carrier status (X)?

Both mother (11) and father (12) are carriers for color blindness.

What must be the genotype of the parents of a carrier daughter (13)?

To have a carrier daughter, she must have the recessive allele from each parent. Her father must be X^cY and mother must have X^CX^c or X^cX^c.

If mother 11 has a normal son, what is the probability that their son will be unaffected?

$X^C X^c \times X^C Y \rightarrow$ all of their sons will not be affected.
 (Carrier) (normal)

Genetic Practice Problems Pedigree Tables

Michael Hoelscher



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