



Pedigrees Practice - Human Genetic Disorders

In humans, **albinism** is a recessive trait. The disorder causes a lack of pigment in the skin and hair, making an albino appear very pale with white hair and pale blue eyes. This disorder can also occur in animals, a common albino found in a laboratory is the white rat. The pedigrees below trace the inheritance of the allele that causes albinism.



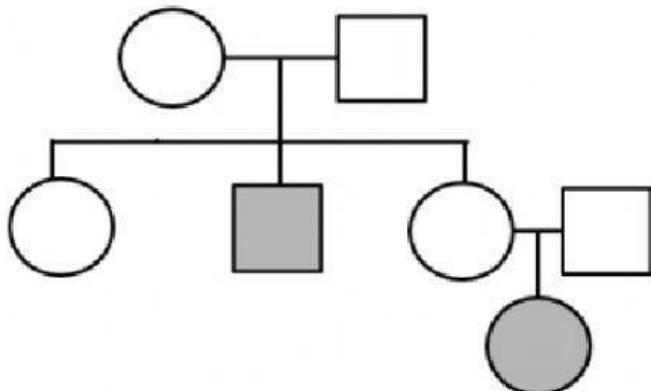
1. Given the following genotypes, describe the phenotypes (normal or albino)

AA = _____

Aa = _____

aa = _____

Fill out the blanks on the pedigree →



- a) How many children does the couple have?
- b) What is the sex of the oldest child?
- c) How many grandchildren does the couple have?

2. Fill out the blanks of the pedigree (AA, Aa, or aa).

- a) How many children did the original couple have?

- b) How many grandchildren?

- c) How many of their grandchildren are albino?

- d) Create an extension to the pedigree to show the albino granddaughter marrying and having a son who is NOT albino.

