

11. Draw a pedigree that represents Leah married to Aiden, with 2 sons and 1 daughter. Their son, Scott, married April and had Sutton (a boy) and Kendall (a girl). Their daughter, Karen, married Harry and had Eli (a son) and Tariq (a son). Please label the pedigree with the names of the people.



12. When working through a pedigree, the first thing you need to do is figure out which characteristic is dominant – the shaded one or the un-shaded one. Then you need to choose a letter (let's use A) and begin assigning genotypes. Remember that recessive individuals are always homozygous, so assign their genotypes first. Then go back and look at all of the dominant individuals. For some, you will only be able to determine one allele of the genotype, so just write the one capital allele followed by a question mark (A?).

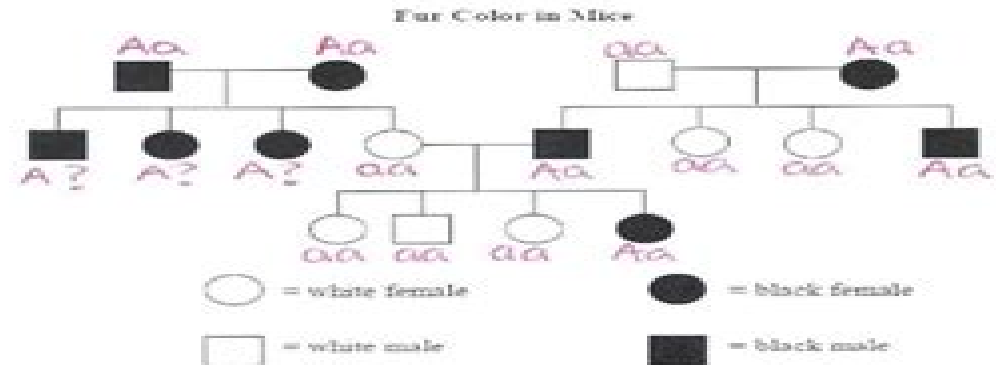
a. Which characteristic is dominant?

black

b. Which characteristic is recessive?

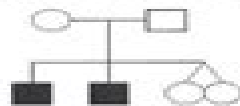
white

c. Determine the genotypes of all individuals. You will have three "A?". Write your Genotypes beneath each individual.



Identify the following pedigree charts as autosomal, X-linked, recessive, and dominant. Please explain your answer.

13. Is the following autosomal or X-linked? Is it dominant or recessive? Please explain.

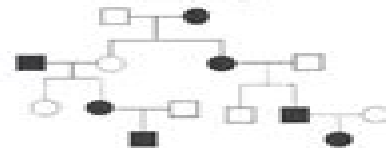


X-linked recessive

More males affected than females

Offspring show disorder/trait but parents don't

14. Is the following autosomal or X-linked? Is it dominant or recessive? Please explain.

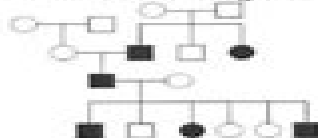


autosomal dominant

50% of males & 50% of females affected

Both parents & offspring show trait

15. Is the following autosomal or X-linked? Is it dominant or recessive? Please explain.



X-linked recessive

See reasons in question #13

16. If a child has an autosomal dominant trait, what can you say about the parents?

If the child has the disorder then one of the parents must have the disorder.

Biology Genetics Guide Answers

David G. Myers, Ken Hutchins



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