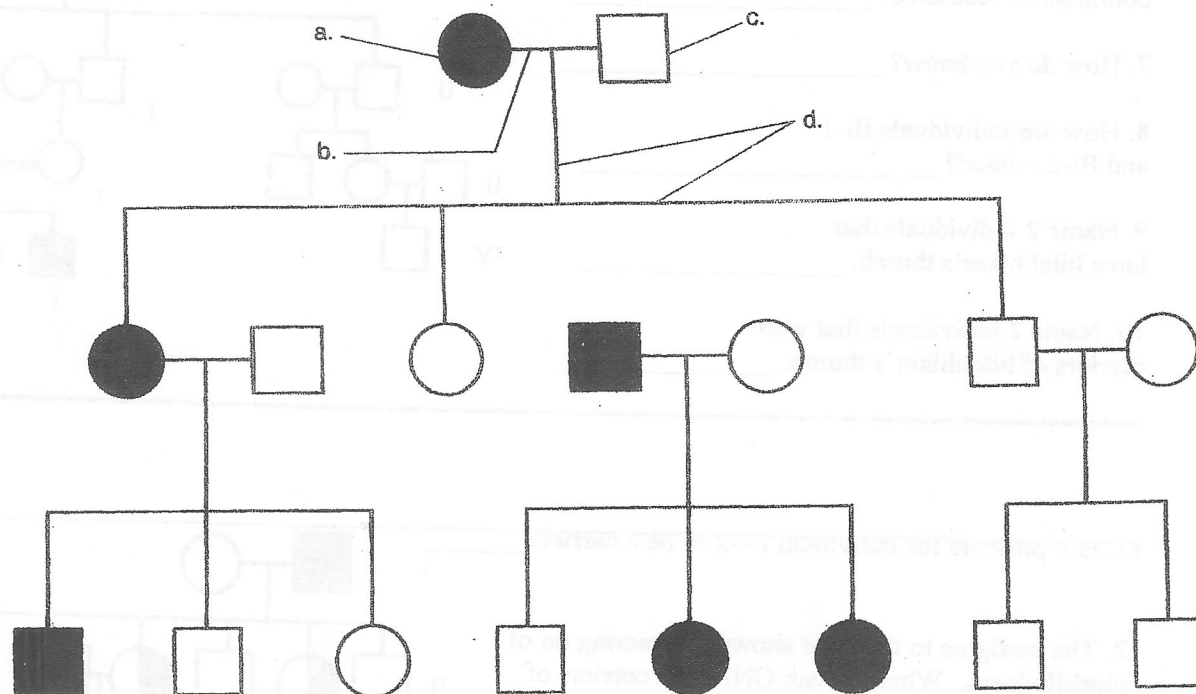


Human Traits (pages: 3/9)

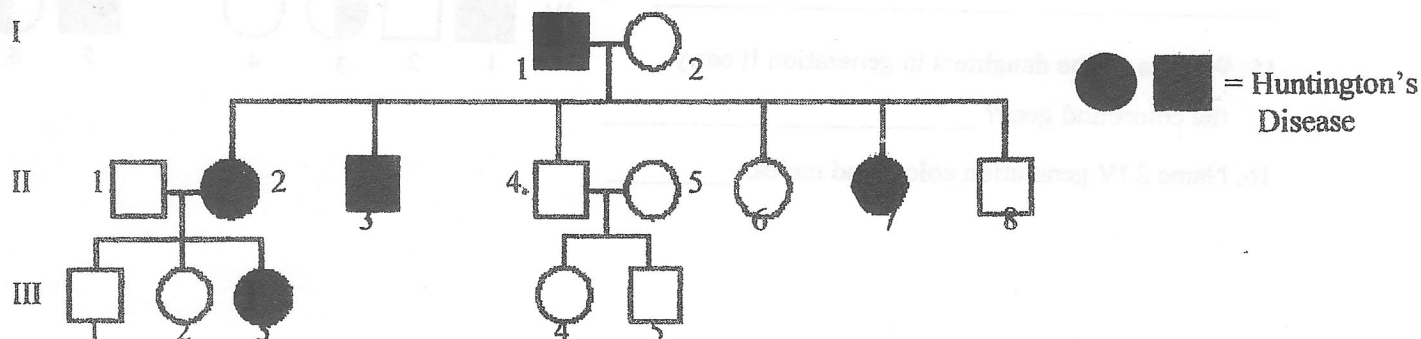
What does a pedigree chart show? _____

Match the labels to the parts of the pedigree chart shown below. Some of the parts of the pedigree chart may be used more than once.

Pedigree Chart



- ___ 6. A person that expresses the trait
- ___ 7. A male
- ___ 8. A person who does not express the trait
- ___ 9. Represents a marriage
- ___ 10. A female
- ___ 11. Connects parents to their children



1. Which members of the family above are afflicted with Huntington's Disease? _____
2. There are no carriers for Huntington's Disease- you either have it or you don't.
With this in mind, is Huntington's disease caused by a dominant or recessive trait? _____
3. How many children did individuals I-1 and I-2 have? _____
4. How many girls did II-1 and II-2 have? _____ How many have Huntington's Disease? _____
5. How is individual III-2 and II-4 related? _____ I-2 and III-5? _____

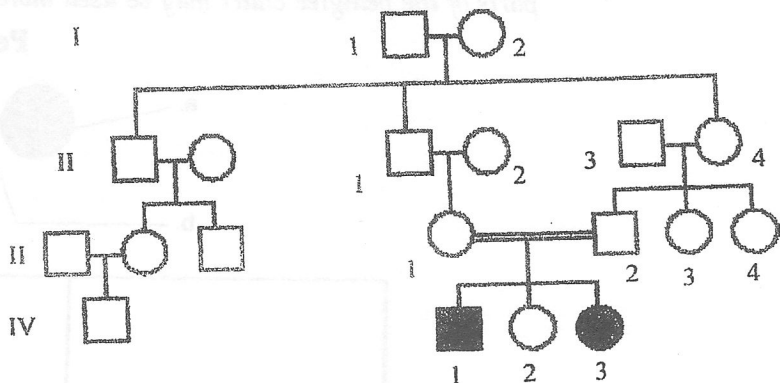
6. The pedigree to the right shows the passing on of Hitchhiker's Thumb in a family. Is this trait dominant or recessive?

7. How do you know? _____

8. How are individuals III-1 and III-2 related?

9. Name 2 individuals that have hitchhiker's thumb.

10. Name 2 individuals that were carriers of hitchhiker's thumb. _____



11. Is it possible for individual IV-2 to be a carrier? _____

12. The pedigree to the right shows the passing on of colorblindness. What sex can ONLY be carriers of colorblindness? _____

13. With this in mind, what kind of non-mendelian trait is colorblindness? _____

14. Why does individual IV-7 have colorblindness?

15. Why do all the daughters in generation II carry the colorblind gene?

16. Name 2 IV generation colorblind males. _____

