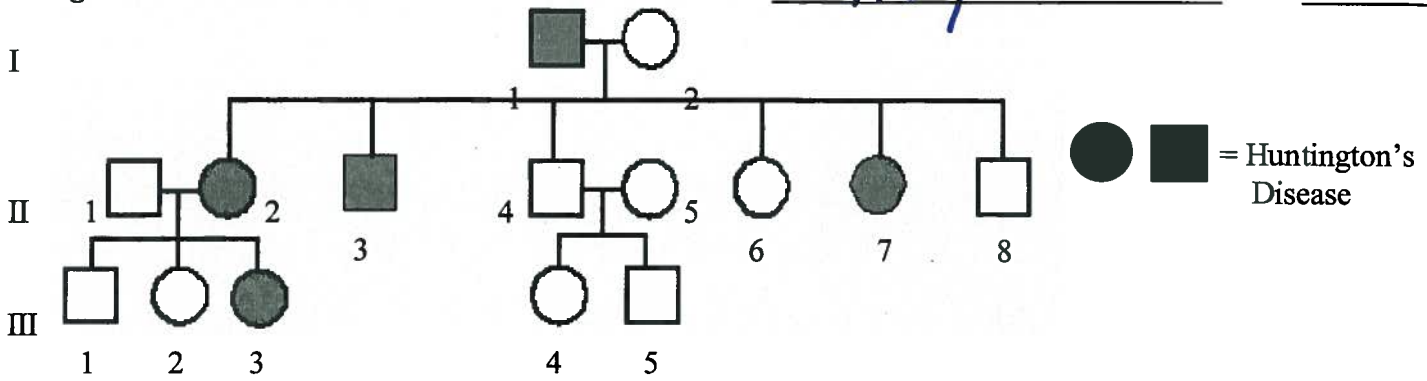


Pedigree Worksheet

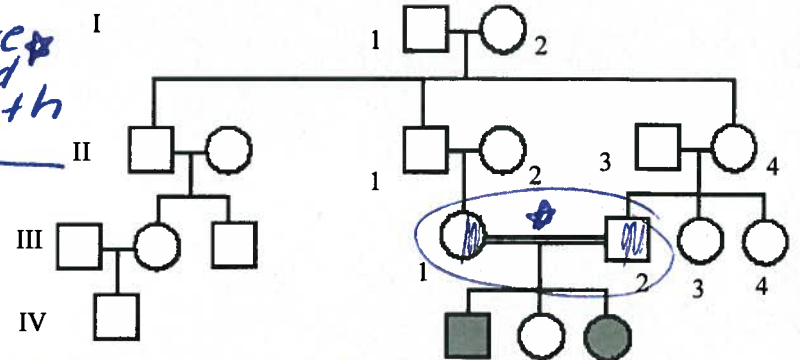
Name Key Date _____



- Which members of the family above are afflicted with Huntington's Disease? have I-1, II-2, II-3, II-7, III-3
- 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? dominant
- How many children did individuals I-1 and I-2 have? 6
- How many girls did II-1 and II-2 have? 2 How many have Huntington's Disease? 1
- How is individual III-2 and II-4 related? neice & uncle I-2 and III-5? Grandma & Grandson

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

- How do you know? Parents who have a child
- How are individuals III-1 and III-2 related? married cousins



- Name 2 individuals that have hitchhiker's thumb. IV-1 & IV-3
- Name 2 individuals that were carriers of hitchhiker's thumb. III-1 & III-2
- Is it possible for individual IV-2 to be a carrier? yes Why? could be heterozygous

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

13. With this in mind, what kind of non-mendelian trait is colorblindness? sex linked on X

14. Why does individual IV-7 have colorblindness? her father is colorblind and mom is a carrier to make XX

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

16. Name 2 IV generation colorblind males. IV-1
IV-5

