

Pedigree Worksheet **KEY**



● ■ = Huntington's Disease

- Which members of the family above are afflicted with Huntington's Disease? **I1, II2, II3, II7, III3**
- 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 or 5**
- How are individuals III-2 and II-4 related? **Uncle/Niece** I-2 and III-5? **Grandma/Grandson**

6. The pedigree to the right shows a family's pedigree for Hitchhiker's Thumb. Is this trait dominant or recessive? **Recessive**

7. How do you know? **III1 and III2 do not have it but their children do.**

8. How are individuals III-1 and III-2 related? **Cousins/Marriage**

9. How would you name the 2 individuals that have hitchhiker's thumb? **IV1 and IV3**

10. Name the 2 individuals that were carriers of hitchhiker's thumb. **III1 and III2**

11. Is it possible for individual IV-2 to be a carrier? **Yes** Why? **b/c parents were heterozygous**

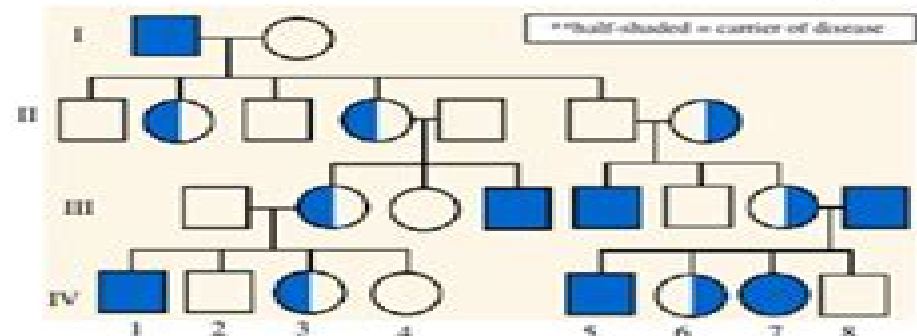
12. The pedigree to the right shows a family's pedigree for colorblindness. Which sex can be carriers of colorblindness and not have it? **Females**

13. With this in mind, what kind of trait is colorblindness (use your notes)? **Sexlinked/recessive**

14. Why does individual IV-7 have colorblindness? **b/c mom was a carrier and dad was affected**

15. Why do all the daughters in generation II carry the colorblind gene? **b/c dad was affected and its on the X**

16. Name 2 IV generation colorblind males. **IV1, IV5**



Human Pedigree Genetics Answers

AW Chickering



Human Pedigree Genetics Answers:

Introduction to Genetic Analysis Anthony J.F. Griffiths, 2008 Provides an introduction to genetic analysis This book covers contemporary genetics and helps students understand the essentials of genetics featuring various experiments teaching them how to analyze data and how to draw their own conclusions

The Handy Science Answer Book, 2011-04-01 Presenting a fun and educational way to explore the wonders of the world of science this newly updated edition poses and answers 2 200 questions providing an abundance of original and interesting science facts Children and adults will uncover some of the most interesting unusual and quirky science curiosities such as Are cell phones dangerous to your health Is the same strain of yeast used to make different types of beer What is the cleanest fossil fuel What is the largest invertebrate Readers will find this informative and enjoyable resource is chock full of hundreds of intriguing science and technology topics from the inner workings of the human body and outer space to math computers planes trains and automobiles

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