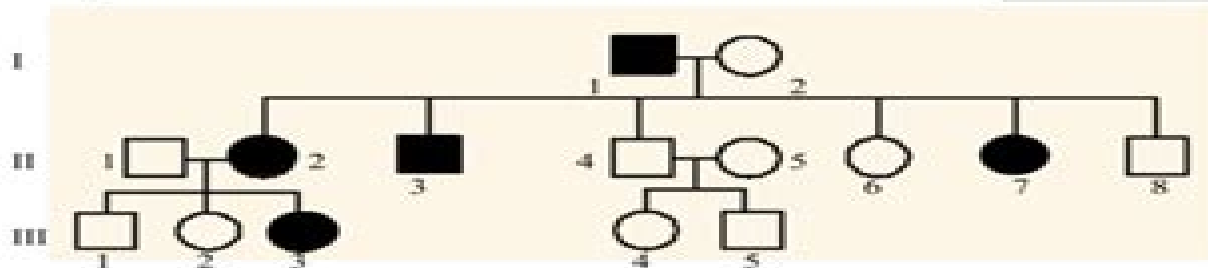


Pedigree Worksheet

Name _____



● ■ = Huntington's Disease

- Which members of the family above are afflicted with Huntington's Disease? _____
- 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? _____
- How many children did individuals I-1 and I-2 have? _____
- How many girls did II-1 and II-2 have? _____ How many have Huntington's Disease? _____
- How are individuals III-2 and II-4 related? _____ I-2 and III-5? _____

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

7. How do you know? _____

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

9. How would you name the 2 individuals that have hitchhiker's thumb? _____

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

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

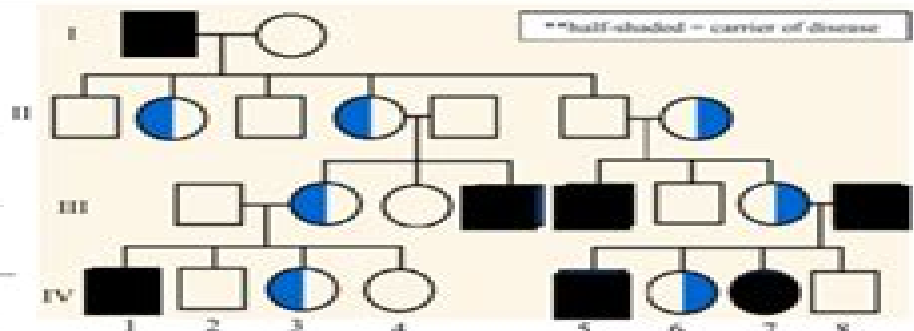
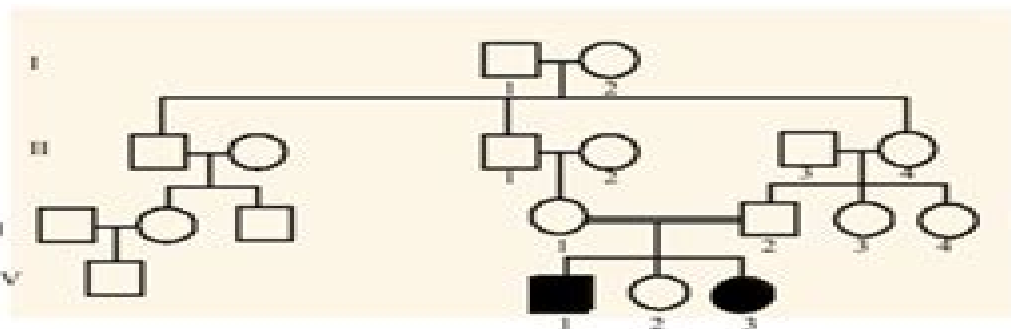
12. The pedigree to the right shows a family's pedigree for colorblindness. Which sex can be carriers of colorblindness and not have it? _____

13. With this in mind, what kind of trait is colorblindness (use your notes)? _____

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. _____



**half-shaded = carrier of disease

Human Pedigrees Answers

R. Scott Hawley, Michelle Walker

A red circular graphic with a gradient, appearing as a partial circle on the right side of the slide, partially overlapping the light blue bar.

Human Pedigrees 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

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Human Genes and Genomes Leon E. Rosenberg, Diane Drobnis Rosenberg, 2012-05-18 In the nearly 60 years since Watson and Crick proposed the double helical structure of DNA the molecule of heredity waves of discoveries have made genetics the most thrilling field in the sciences The study of genes and genomics today explores all aspects of the life with relevance in the lab in the doctor's office in the courtroom and even in social relationships In this helpful guidebook one of the most respected and accomplished human geneticists of our time communicates the importance of genes and genomics studies in all aspects of life With the use of core concepts and the integration of extensive references this book provides students and professionals alike with the most in depth view of the current state of the science and its relevance across disciplines Bridges the gap between basic human genetic understanding and one of the most promising avenues for advances in the diagnosis prevention and treatment of human disease Includes the latest information on diagnostic testing population screening predicting disease susceptibility pharmacogenomics and more Explores ethical legal regulatory and economic aspects of genomics in medicine Integrates historical classical genetics approach with the latest discoveries in structural and functional genomics

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Journal National Cancer Institute (U.S.), 1941

Solutions Manual for An Introduction to Genetic Analysis David Scott, 2012 Since its inception *Introduction to Genetic Analysis* IGA has been known for its prominent authorship including leading scientists in their field who are great educators This market best seller exposes students to the landmark experiments in genetics teaching students how to analyze experimental data and how to draw their own conclusions based on scientific thinking while teaching students how to think like geneticists Visit the preview site at www.whfreeman.com

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concepts from mutation and gene function to gene mapping and chromosome segregation Throughout a balanced range of model organisms and timely examples are used to illustrate the theoretical basics Basic principles Focuses students attention on the how and why of the essential analytical tools Vibrant accessible style provides an easy guide through difficult genetic concepts and techniques Text boxes highlight key questions and timely examples Boxes of key information in each chapter chapter summaries and extensive references prompt the student to synthesise and reinforce the chapter material Special reference section addressing a range of model organisms to help provide a particularly relevant context for students research interests

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The Agricultural Gazette and Modern Farming, 1899
Resources in Education, 1985 Lecture-free Teaching Bonnie S. Wood, 2009 **Essential Genetics** Daniel L. Hartl, 2014 This book provides an introduction to modern genetics

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