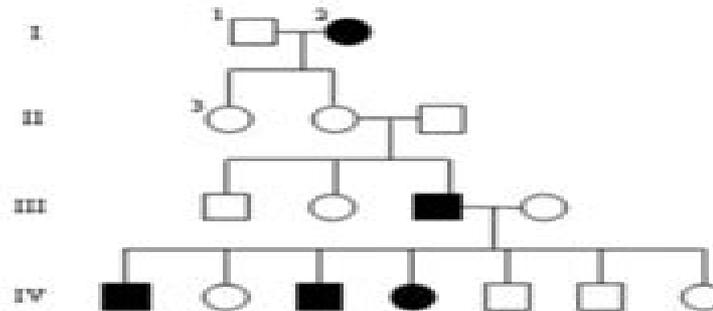


Interpreting a Human Pedigree

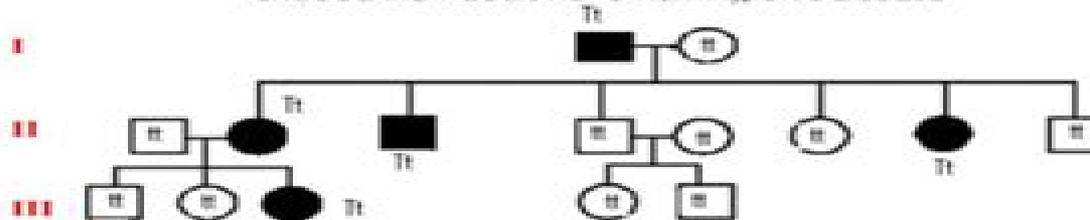
Use the pedigree below to answer 1-5



- In a pedigree, a square represents a male, if it is darkened he has hemophilia; if clear, he had normal blood clotting.
  - How many males are there? **8**
  - How many males have hemophilia? **3**
- A circle represents a female, if it is darkened, she has hemophilia; if open she is normal.
  - How many female are there? **8**
  - How many females have hemophilia? **2**
- A marriage is indicated by a horizontal line connecting a circle to a square.
  - How many marriages are there? **3**
- A line perpendicular to a marriage line indicates the offspring. If the line ends with either a circle or a square, the couple had only one child. However, if the line is connected to another horizontal line, then several children were produced, each indicated by a short vertical line connected to the horizontal line. The first child born appears to the left and the last born to the right.
  - How many children did the first couple (couple in row I) have? **2**
  - How many children did the third couple (couple in row III) have? **7**
- Level I represent the first generation, level II represents the second generation.
  - How many generations are there? **4**
  - How many members are there in the fourth generation? **7**

Use the pedigree below to answer 6-12

Shaded individuals have Huntington's Disease



Individuals are numbered for each generation right to left...they are denoted with their generation and their number. See #7 for example.

- Write the generation on the pedigree numbers (roman numerals).
- Which members of the family above are afflicted with Huntington's Disease? **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**

# Chapter 4 Pedigree Analysis In Human Genetics Answers

**Chao Zhang**



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### **Table of Contents Chapter 4 Pedigree Analysis In Human Genetics Answers**

1. Understanding the eBook Chapter 4 Pedigree Analysis In Human Genetics Answers
  - The Rise of Digital Reading Chapter 4 Pedigree Analysis In Human Genetics Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 4 Pedigree Analysis In Human Genetics Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Chapter 4 Pedigree Analysis In Human Genetics Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 4 Pedigree Analysis In Human Genetics Answers
  - Personalized Recommendations

- Chapter 4 Pedigree Analysis In Human Genetics Answers User Reviews and Ratings
- Chapter 4 Pedigree Analysis In Human Genetics Answers and Bestseller Lists
- 5. Accessing Chapter 4 Pedigree Analysis In Human Genetics Answers Free and Paid eBooks
  - Chapter 4 Pedigree Analysis In Human Genetics Answers Public Domain eBooks
  - Chapter 4 Pedigree Analysis In Human Genetics Answers eBook Subscription Services
  - Chapter 4 Pedigree Analysis In Human Genetics Answers Budget-Friendly Options
- 6. Navigating Chapter 4 Pedigree Analysis In Human Genetics Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 4 Pedigree Analysis In Human Genetics Answers Compatibility with Devices
  - Chapter 4 Pedigree Analysis In Human Genetics Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 4 Pedigree Analysis In Human Genetics Answers
  - Highlighting and Note-Taking Chapter 4 Pedigree Analysis In Human Genetics Answers
  - Interactive Elements Chapter 4 Pedigree Analysis In Human Genetics Answers
- 8. Staying Engaged with Chapter 4 Pedigree Analysis In Human Genetics Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 4 Pedigree Analysis In Human Genetics Answers
- 9. Balancing eBooks and Physical Books Chapter 4 Pedigree Analysis In Human Genetics Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 4 Pedigree Analysis In Human Genetics Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 4 Pedigree Analysis In Human Genetics Answers
  - Setting Reading Goals Chapter 4 Pedigree Analysis In Human Genetics Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 4 Pedigree Analysis In Human Genetics Answers
  - Fact-Checking eBook Content of Chapter 4 Pedigree Analysis In Human Genetics Answers

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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