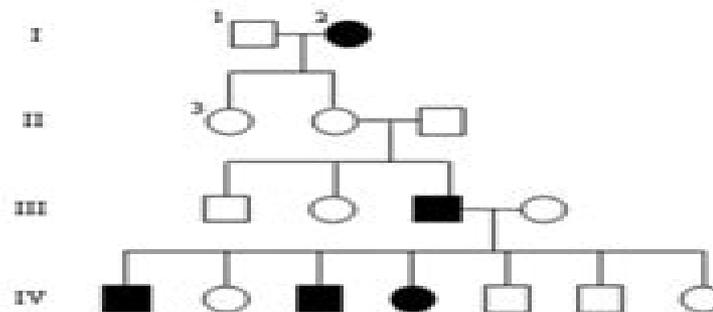


## Interpreting a Human Pedigree

Use the pedigree below to answer 1-5



1. 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? **6**
- How many males have hemophilia? **3**

2. 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**

3. A marriage is indicated by a horizontal line connecting a circle to a square.

- How many marriages are there? **3**

4. 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.

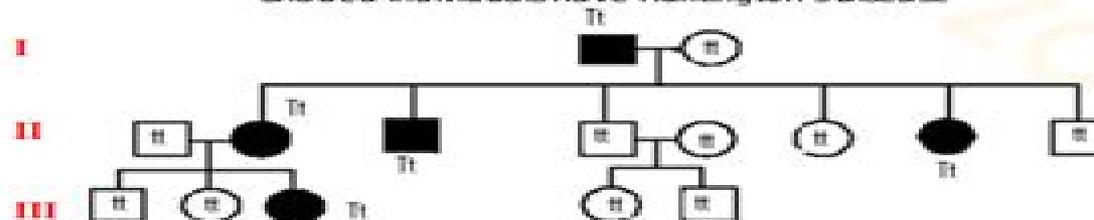
- How many children did the first couple (couple in row I) have? **2**
- How many children did the third couple (couple in row III) have? **7**

5. 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.

6. Write the generation on the pedigree numbers (roman numerals).

7. Which members of the family above are afflicted with Huntington's Disease? **I-1, II-2, II-3, II-7, III-3**

8. 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**

9. How many children did individuals I-1 and I-2 have? **6**

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**Vincent Moulton, Mona Singh**



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## **Table of Contents Pedigree Analysis Problems And Solutions**

1. Understanding the eBook Pedigree Analysis Problems And Solutions
  - The Rise of Digital Reading Pedigree Analysis Problems And Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Pedigree Analysis Problems And Solutions
  - 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 Pedigree Analysis Problems And Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Pedigree Analysis Problems And Solutions
  - Personalized Recommendations
  - Pedigree Analysis Problems And Solutions User Reviews and Ratings
  - Pedigree Analysis Problems And Solutions and Bestseller Lists
5. Accessing Pedigree Analysis Problems And Solutions Free and Paid eBooks
  - Pedigree Analysis Problems And Solutions Public Domain eBooks
  - Pedigree Analysis Problems And Solutions eBook Subscription Services

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