

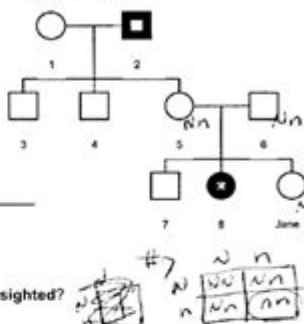
Pedigree Analysis Worksheet With Answers

Name: _____ Period: _____ Date: _____

Pedigree Practice #2 Worksheet

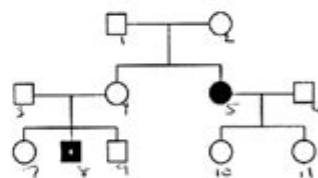
PROBLEM # 1: The pedigree below shows the recessive trait for **nearsightedness** in Jane's family. Jane, her parents, and her brother all have normal vision. Use **N** for the dominant allele and **n** for the recessive allele.

1. How many **generations** are represented in this pedigree? 3
2. How many children did the first couple (1 & 2) have? 3
3. How many marriages are shown on this pedigree? 2
4. What is the sex and genotype of individual # 2?
male - nn
5. What are Jane's possible genotypes? could be NN or Nn
6. What are the genotypes of individuals 5 & 6 with individual # 5 given first?
Nn x Nn
7. What is the probability that individuals # 5 & 6 will have a child that is **nearsighted**?
25%



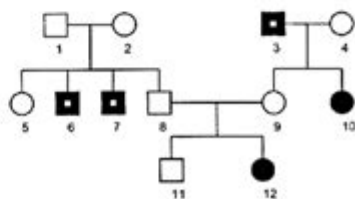
PROBLEM # 2: Phenylketonuria (PKU) is an inborn error of metabolism of the amino acid phenylalanine. The following pedigree shows a family affected by PKU (shaded in shapes). Use **P** for the dominant allele and **p** for the recessive allele.

1. How is PKU inherited? Explain. Aut - rec
2. Which individuals in this pedigree have PKU?
5 & 8
3. What are the genotypes of individuals # 1 & 2?
Pp x Pp
4. What are the genotypes of individuals # 3 & 4?
Pp x Pp



PROBLEM # 3: Earlobes in humans are either attached (shaded in shapes) or detached. Answer the following questions based on the pedigree below. Use **F** for the dominant allele and **f** for the recessive allele.

1. Which trait is dominant, attached or detached?
detached
2. Is this trait sex-linked or non-sex-linked? Explain.
non - females / males affect equally
3. What are the genotypes of individuals # 1 & 2?
Ff x Ff
4. What is the genotype of individual # 4? Ff
5. What are the genotypes of individuals # 8 & 9? Ff x Ff



Pedigree Analysis Worksheet with Answers: A Comprehensive Guide

Are you struggling to decipher the intricate patterns of inheritance hidden within family history? Understanding pedigrees is crucial for grasping genetics, and practicing with worksheets is key to mastering this skill. This comprehensive guide provides you with a detailed explanation of pedigree analysis, along with a sample pedigree analysis worksheet complete with answers. Whether you're a high school student tackling genetics homework or a university student delving deeper into Mendelian inheritance, this post will equip you with the tools and knowledge you need to confidently analyze pedigrees.

Understanding Pedigree Charts: Symbols and Interpretations

Before diving into the worksheet, let's refresh our understanding of pedigree charts. These diagrams visually represent the inheritance of traits across generations within a family. Understanding the symbols is the first step:

Key Symbols in Pedigree Charts:

Squares: Represent males.

Circles: Represent females.

Filled Shapes: Indicate individuals expressing the trait in question.

Unfilled Shapes: Indicate individuals who do not express the trait.

Horizontal Line Connecting Two Symbols: Represents a mating pair.

Vertical Line Connecting a Mating Pair to Their Offspring: Shows the parental relationship.

Roman Numerals: Designate generations.

Arabic Numerals: Number individuals within each generation.

Interpreting Pedigree Charts: Identifying Inheritance Patterns

Analyzing a pedigree requires careful observation and deduction. By examining the distribution of affected and unaffected individuals across generations, you can infer the mode of inheritance:

Autosomal Dominant: Affected individuals appear in every generation, and affected children usually have at least one affected parent.

Autosomal Recessive: Affected individuals often skip generations, and affected children usually have unaffected parents who are carriers.

X-linked Recessive: More males are affected than females, and affected sons usually have unaffected mothers who are carriers.

X-linked Dominant: Affected individuals appear in every generation, and affected fathers pass the trait to all their daughters.

Sample Pedigree Analysis Worksheet with Answers

Let's put our knowledge into practice with a sample pedigree analysis worksheet. Below is a hypothetical pedigree chart; your task is to analyze it and determine the most likely mode of inheritance.

(Insert a visual representation of a pedigree chart here. This chart should show a clear pattern of inheritance, for example, an autosomal recessive trait. Ensure the chart is clear and easy to interpret.)

Analyzing the Pedigree: Step-by-Step Solution

1. Observe the distribution of affected individuals: Note the generations where the trait appears and the gender distribution.
2. Consider the parental relationships: Examine whether affected children have affected parents.
3. Determine the most likely mode of inheritance: Based on your observations, decide if the inheritance pattern is autosomal dominant, autosomal recessive, X-linked dominant, or X-linked recessive. Justify your answer.

Answers: (Provide a detailed explanation of the answers based on the provided pedigree chart. For example, if the chart shows an autosomal recessive trait, the answer should explain why it is autosomal recessive, citing specific individuals and relationships within the pedigree.)

Beyond the Basics: Advanced Pedigree Analysis Techniques

While the basic principles covered above are essential, more complex pedigrees may require additional considerations:

Dealing with Incomplete Penetrance and Variable Expressivity:

These factors can complicate the analysis, as individuals with the genotype may not always exhibit the phenotype.

Utilizing Probability and Statistical Analysis:

For more complex scenarios, statistical methods can aid in determining the probability of inheritance.

Conclusion

Mastering pedigree analysis is a valuable skill that strengthens your understanding of genetics. By practicing with worksheets and understanding the various modes of inheritance, you can confidently analyze complex family histories and accurately predict the likelihood of trait transmission. Remember to pay close attention to the symbols, carefully observe the distribution of affected individuals, and systematically consider the possible modes of inheritance to reach accurate conclusions.

FAQs

1. Where can I find more pedigree analysis worksheets? You can find numerous worksheets online through educational websites, genetics textbooks, and online resources. Search for "pedigree analysis practice problems" or "genetics pedigree worksheets."
2. Are there any online tools to help analyze pedigrees? Yes, several online tools and simulators can assist in analyzing pedigrees and predicting inheritance patterns. Search for "pedigree analysis software" or "pedigree simulators."
3. What if the pedigree chart is incomplete or contains missing information? Incomplete information can make analysis more challenging. You may need to make educated inferences based on the available data, acknowledging the uncertainties involved.
4. How can I improve my skills in pedigree analysis? Consistent practice with various pedigree charts and different modes of inheritance is key. Working through examples and comparing your analyses with solutions will significantly improve your ability.
5. Can pedigree analysis be used for human diseases only? No, pedigree analysis is a widely used tool in genetics applicable to various organisms, including animals and plants, not just humans. It aids in understanding the inheritance of traits and characteristics in any species.

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John Eggebrecht, 2017-10-16 Biology for AP® courses covers the scope and sequence requirements of a typical two-semester Advanced Placement® biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP® Courses was designed to meet and exceed the requirements of the College Board's AP® Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences.

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practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

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resource designed to develop and consolidate students' knowledge and understanding of science by providing a variety of activities and questions to apply skills, reinforce learning outcomes and extend thinking. Updated with explicit differentiation and improved learner accessibility, it provides a wide variety of activities to reinforce, extend and enrich learning initiated through the student book.

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Queller's sense of humor and grace transform the most harrowing of situations into a riveting and heartfelt memoir."—Kirkus Reviews "Seamless and gripping. Readers will be rooting for Queller and her heroic decision to confront her genetic destiny."—Publishers Weekly "Jessica Queller gives us a warm, chilling, unflinching look at her personal journey of survival with style. The ending will surprise you. Her prescience is astounding. Her courage is inspirational. Brava Jessica!"—Marisa Acocella Marchetto, author of *Cancer Vixen*

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