Pedigree Worksheet
Answer Key

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 has normal blood clotting.

      a. How many males are there? _____8_____

      b. How many males have hemophilia? _____3_____

2. A circle represents a female. If it is darkened, she has hemophilia; if open she is normal.

      a. How many female are there? _____8_____

      b. How many females have hemophilia? _2_____

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

      a. 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.

Human Pedigrees Answers

R. H. Andrews

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   **An Introduction to Genetic Analysis** Anthony J.F. Griffiths,2005 The eighth edition of An Introduction to Genetic Analysis has been extensively revised shaping its coverage to match current research and thinking in genetics   **Quantitative Methods in Biological and Medical Sciences** H.O. Lancaster,2012-12-06 My original intention was to write a history of medical statistics used in its prewar sense expanding the writings on the subject by Major Greenwood from which I formed many of my ideas in the early days immediately after the Second World War In later years I decided that the scope of his works was narrower than what I think is appropriate now for he was writing in an era before the acceptance and use of the Fisherian methods and he was probably not aware of the mathematization of many parts of biological theory Further the boundary between the medical and biological sciences has largely disappeared Many texts have now been written on branches of the theory and practice inspired by R A Fisher see 4 13 I discuss the history of the use of quantitative methods in the biological sciences defined after the style of Peller 1967 as that branch of science that uses a quantitative approach to or quantitative logical reasoning on or biology The mathematical tech any issue having to do with medicine niques are various and not classified here Within the book I use biological sciences to include medicine but use the longer phrase in its title to avoid misunderstandings as to content Moreover most of the experimental work carried out in medical research laboratories is performed on animals other than man   *Ebook: Biology* BROOKER,2014-09-16 Ebook Biology   *Essential Genetics* ,   **Mathematics for the Life Sciences** Erin N. Bodine,Suzanne Lenhart,Louis J. Gross,2014-08-17 An accessible undergraduate textbook on the essential math concepts used in the life sciences The life sciences deal with a vast array of problems at different spatial temporal and organizational scales The mathematics necessary to describe model and analyze these problems is similarly diverse incorporating quantitative techniques that are rarely taught in standard undergraduate courses This textbook provides an accessible introduction to these critical mathematical concepts linking them to biological observation and theory while also presenting the computational tools needed to address problems not readily investigated using mathematics alone Proven in the classroom and requiring only a background in high school math Mathematics for the Life Sciences doesn t just focus on calculus as do most other textbooks on the subject It covers deterministic methods and those that incorporate uncertainty problems in discrete and continuous time probability graphing and data analysis matrix modeling difference equations differential equations and much more The book uses MATLAB throughout explaining how to use it write code and connect models to data in examples chosen from across the life sciences Provides undergraduate life science students with a succinct overview of major mathematical concepts that are essential for modern biology Covers all the major quantitative concepts

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