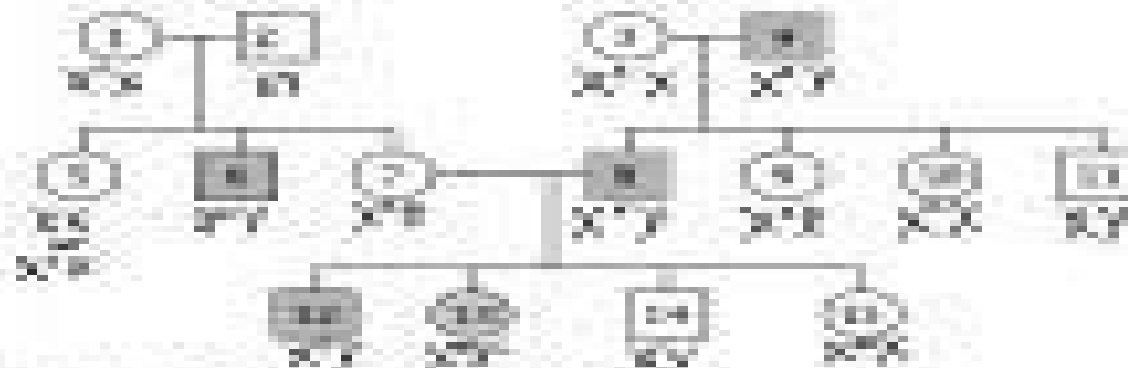


Genetics Practice Problems: Pedigree Tables

Remember the following when working pedigree tables:

- 1) Circles are females and squares are males.
- 2) A shaded circle or square indicates that a person has the trait.

The pedigree chart below is the inheritance of color blindness. Shaded individuals are colorblind. First, determine the probable genotype of persons 1 - 15. Then answer the questions below the table.



What do you know about the genotype of the mother of 1?

These parents (1) had an color blind son (2). His dad is a carrier, but color blind. When from his mother. Since the mother is not shaded she must be a carrier.

Number 6 is colorblind just like her father. Where could she get her allele for colorblindness?

She inherited her allele for colorblindness from her mother. Must have been that if colorblindness from her father.

Number numbers 11 and 12 were colorblind. How did they have a colorblind son (13)?

Both mother and father are carriers for color blindness.

What must be the genotype of the parents of a colorblind daughter? Explain.

To have a color blind daughter, she must have the recessive allele from each parent. Her father must be X^c Y and mother must have to be X^c X^c or X^c X^N.

If number 11 has a normal son, what is the probability that their son will be colorblind?

$X^c X^c \times X^N Y \rightarrow$ all of their sons will not be colorblind.

(11) (normal male)

Genetics Practice Problems Pedigree Tables

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The Genetics of Cattle, 2nd Edition Dorian Garrick, Anatoly Ruvinsky, 2014-11-28 Since the time of domestication more than 10 000 years ago cattle have played an increasingly crucial role in the development of human civilizations Progress has been quite remarkable since the turn of the century the sequencing of the bovine genome in 2009 launched new avenues for furthering our understanding of theoretical and practical aspects of cattle genetics Covering a vast array of questions this book reviews major topics from molecular and developmental genetics disease resistance and immunogenetics to genetic improvement of dairy and beef breeds addressing all current problems in the field This second edition includes a new team of authors and completely new chapters on the genetics of fat production nutrition feed intake and efficiency growth and body composition Fully updated throughout it provides a valuable resource on cattle genetics for researchers breeders veterinarians and postgraduate students

Student Learning in Modeling Classrooms Cynthia Passmore, 2002

The Practical Guide to the Genetic Family History Robin L. Bennett, 2004-03-24 The Practical Guide to The Genetic Family History Robin L Bennett Compiling the most recent genetic developments in medical specialties The Practical Guide to the Genetic Family History is a valuable resource which outlines the proper methods for taking and recording a patient's family medical history allowing primary care physicians to be more efficient in diagnosing conditions with potential genetic components With genetic screening forms an overview of directed questions pedigree nomenclature and outlining common approaches used genetic counselor Robin L Bennett provides readers with the basic foundation in human genetics necessary to recognize inherited disorders and familial disease susceptibility in patients As the only guide which is geared for the physician in this field The Practical Guide to the Genetic Family History includes remarks by renowned medical geneticist Arno Motulsky as well as information on

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Vogel and Motulsky's Human Genetics Friedrich Vogel,Arno G. Motulsky,2013-04-17 The first two editions of this book published in 1979 and in 1986 were well received by the scientific community Translations into Italian Japanese and Russian suggest that this book was regarded useful in many parts of the world Mean while human genetics has seen dramatic developments and the molecular revolution has attracted thousands of scientists including many molecular biologists to this field About 3700 human genes have already been mapped to chromosomal sites Many such genes have been cloned and the various mutations causing disease have been identified Novel mutational mechanisms such as expanded trinucleotide repeats have been discovered in conditions such as Huntington's disease and the fragile X syndrome of mental retardation Gene action now can often be elucidated by studying the pathway from gene to phenotype following positional cloning rather than working in the opposite direction as was customarily done before the tools of new genetics were available In an increasing number of genetic diseases the pathogenic mechanisms have been elucidated with positive consequences for prevention and treatment It therefore became necessary to rewrite almost completely major portions of this book These developments are now making genetics arguably the leading basic science for medicine as well as a recognized medical speciality But all these changes do not mean that the entire framework of human genetics had to be reconstructed

NSTA Pathways to the Science Standards Juliana Texley,Ann L. Wild,2004 Our top selling practical guide still demonstrates how you can bring to life the vision of the Standards for teaching professional development assessment content programs and school systems Throughout the book you ll learn ways to form productive partnerships for reform inside and outside your building with other education stakeholders

Proceedings of the 6th World Congress on Genetics Applied to Livestock Production, January 11-16, 1998 ,1998

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