

Genetics Problem Solving



Please bring your textbook to this laboratory session.

A. Objectives

Become familiar with

1. Probability calculations
2. Solving genetics problems

B. Before lab

3. Read *Probability is used to predict inheritance and Mendel's laws can be observed in human pedigrees* on pages 150-151 of your textbook. Also, review linked genes and the construction of genetic maps on pages 156-158.
4. In your notebook, answer questions 1-3, 11, and 21 - 23 in part E below.

C. During lab

In groups of four, work through the genetics problems. You can fill your answers directly into the worksheet. However, remember to include this exercise in the table of content of your lab notebook, glue the pages in and have them signed by your instructor.

D. After lab

1. Finish the worksheet if you have not done it in lab.
2. Practice solving genetics problems (e.g.,
<http://www.ndsu.nodak.edu/instruct/mcclean/plsc431/mendel/mendel1.htm>)

E. Predicting the outcome of various crosses

1. A female carrier of Tay-Sachs wants to have a child with a male carrier for Tay-Sachs. Tay-Sachs is inherited in an autosomal recessive manner. Using the letters "T" and "t" fill out the following table.

	Female	Male
Genotype		
Phenotype		
Genotypes of sperm/ova		

2. Determine the probability of them having a child with Tay-Sachs using a Punnett square (page 147 in Hillis).

Genetics Problem Solving Chapter 25 Answers

IM Harris



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Biomolecules Donald Voet, Judith G. Voet, 2003-05-20 Biochemistry is a modern classic that had been thoroughly revised Explains biochemical concepts while offering a unified presentation of life and its variation through evolution Incorporates both classical and current research to illustrate the historical source of much of our biochemical knowledge This edition has been updated to reflect the enormous advances in molecular and protein structure Features a new chapter on nucleic acids gene expression and recombinant DNA technology as well as a new chapter on nucleotide metabolism Integrated Biochemical Interactions CD *Student Solutions Manual and Supplemental Problems to Accompany Genetics* Daniel L. Hartl, Elizabeth W. Jones, 2004-09-07 This introductory college level textbook introduces the basic processes of gene transmission mutation expression and regulation Hartl Harvard U and Jones Carnegie Mellon U present an integrated view of the modern world of genetics treating classical molecular and population genetics as unified subdisciplines within the field Modern an Concepts of Genetics Harry Nickla, 2005-05 This valuable handbook provides a detailed step by step solution or lengthy discussion for every problem in the text The handbook also features additional study aids including extra study problems chapter outlines vocabulary exercises and an overview of how to study genetics

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