

# 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 Worksheet

**RM Cervero**



## **Genetics Problem Solving Worksheet:**

## The Enigmatic Realm of **Genetics Problem Solving Worksheet**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Genetics Problem Solving Worksheet** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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