

## Genetics Worksheet

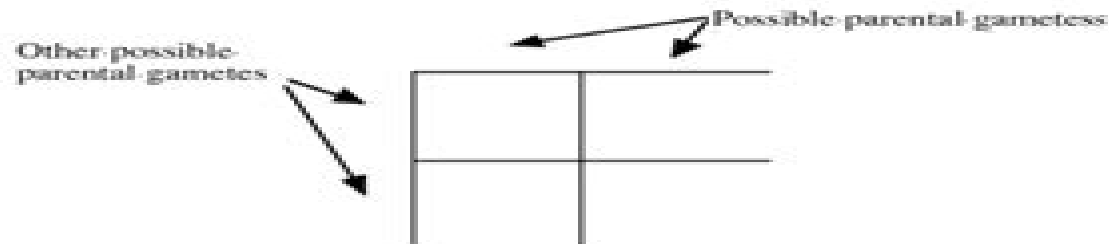
### Part 1 Introduction:

- Describe the genotypes given (use your notes). The first two are already done.
  - DD homozygous, dominant
  - Dd heterozygous
  - dd \_\_\_\_\_
  - ss \_\_\_\_\_
  - Yy \_\_\_\_\_
  - WW \_\_\_\_\_
- In humans, brown eye color (B), is dominant over blue eye color (b). What are the **phenotypes** of the following genotypes? In other words, what color eyes will they have?
  - BB \_\_\_\_\_
  - bb \_\_\_\_\_
  - Bb \_\_\_\_\_

### The Five (5) Steps Associated With Solving a Genetics Problem:

*If you take the time to follow the directions below, you will be able to solve most genetics problems.*

- Determine** the **genotypes** of the parents or whatever is given in problem.
- Set up your **Punnett square** as follows: \*# sq. based on possible gametes that can be formed.



- Fill in** the squares. This represents the possible combinations that could occur during fertilization.
- Write out** the possible **genotypic ratio** of the offspring.
- Using the **genotypic ratio** determine the **phenotypic ratio** for the offspring.

### Part 2: Sample Problem (Just read this over, it is a practice problem)

*A heterozygous male, black eyed mouse is crossed with a red eyed, female mouse. Predict the possible offspring!*

- Step 1: Determine the genotype of the parents.** The male parent is **heterozygous** which means he has one allele for black eyes and one allele for red eyes. Since his eyes are black, this means that black allele must be dominant over the red allele. So the male parents genotype is "**Bb**" (B = allele for black eye, b = allele for red eye). The female parent has red eyes, there is only one way to have this recessive phenotype, so she must be homozygous recessive. Homozygous recessive means that her genotype must be "**bb**". Therefore, genotype of the parents is **Bb x bb**.

# Mendelian Genetics Homework Answer Key

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## **Mendelian Genetics Homework Answer Key:**

## Adopting the Song of Expression: An Emotional Symphony within **Mendelian Genetics Homework Answer Key**

In a world consumed by screens and the ceaseless chatter of instant interaction, the melodic splendor and emotional symphony created by the written term frequently disappear into the back ground, eclipsed by the persistent sound and disruptions that permeate our lives. However, located within the pages of **Mendelian Genetics Homework Answer Key** a charming literary prize filled with fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, this charming masterpiece conducts viewers on a mental journey, skillfully unraveling the concealed tunes and profound affect resonating within each carefully constructed phrase. Within the depths of this poignant analysis, we can explore the book is key harmonies, analyze its enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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