

# Mendelian Genetics Worksheet

Names: Adrienne Mebelle B. Alcantara

**Directions:** In your groups of 2, complete the worksheet below. Each question should be answered by a different partner (i.e. you should not answer multiple questions in a row). Initial by the questions you complete.

1. A male and female bird have 4 unhatched eggs. The female is on the left heterozygous; the male on the right is homozygous recessive. Use B or b for your genotypes.



- a. Write the genotype of the female (left) below:

**Answer: Bb**

- b. Write the genotype of the male (right) below:

**Answer: bb**

- c. Which color is dominant, gray or black? How do you know?

**Answer: It is gray, because the female's genotype has one dominant allele while the male has none.**

- d.

Write the phenotype of the female and the phenotype of the male below:

**Answer: The female is gray and the male is black.**

- e. Complete the Punnett Square below for this couple:

|   |    |    |
|---|----|----|
|   | b  | b  |
| B | Bb | Bb |
| b | bb | bb |

- f. If they follow the Punnett Square ratios, what will the babies in the eggs look like when they hatch?

**Answer: There are two grays**

- g. Will all four offspring adhere exactly to the ratios predicted by the Punnett Square? Explain.

**Answer: It is likely because the Punnett square only gave us a predicted probability.**

# Mendelian Inheritance Practice Problems Answers

**VM Jensen**



**Mendelian Inheritance Practice Problems Answers:**

## **Mendelian Inheritance Practice Problems Answers** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Mendelian Inheritance Practice Problems Answers**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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