

# Mendelian Genetics Worksheet

Names: \_\_\_\_\_

**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:

Bb

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

bb

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

The dominant color is **gray** since the female is the gray and the heterozygous one (Bb).

- d. Write the phenotype of the female and the phenotype of the male below:

(female) = **gray**      (male) = **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?

There is a 50% probability that the babies will look like gray and there is also a 50% probability that the babies will look like black.

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

No, since we cannot foretell something to come out exactly from the result of the ratio.

The Punnett square is only for prediction, it is not 100% sure guaranteed that the answer from our solution will become the exact outcome.

*Hint: if I flip a coin and get heads 5 times in a row, what is the likelihood that I will get heads on the next flip?*

# Mendelian Inheritance Practice Problems Answers

**James N. Thompson**



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