

# Mendelian Genetics Worksheet

Name: \_\_\_\_\_

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

**Bruce A. Chase, Peter J. Russell**

## **Mendelian Inheritance Practice Problems Answers:**

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N. Thompson, Jr.Jenna J. Hellack,Gerald Braver,David S. Durica,2007-10-01 An invaluable student tested study aid this primer first published in 2007 provides guided instruction for the analysis and interpretation of genetic principles and practice in problem solving Each section is introduced with a summary of useful hints for problem solving and an overview of the topic with key terms A series of problems generally progressing from simple to more complex then allows students to test their understanding of the material Each question and answer is accompanied by detailed explanation This third edition includes additional problems in basic areas that often challenge students extended coverage in molecular biology and development an expanded glossary of terms and updated historical landmarks Students at all levels from beginning biologists

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Russell, 2005-06 This student resource contains chapter outlines of text material solutions to all end of chapter problems key terms suggestions for analytical approaches problem solving strategies and a variety of additional questions for student practice Also featured are questions that relate to chapter specific animations and iActivities Primer of Genetic Analysis

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Everyday Experience Albert Kaskel, 1994-04-19 **Genetics** Robert J. Brooker, Brooker Robert, 2004-06 Contains solutions to the end of chapter problems and questions to aid the students in developing their problem solving skills with the steps for each solution This guide follows the order of sections and subsections in the textbook and summarizes the main points in the text figures and tables It also contains concept building exercises **Animal Genetics** Frederick Bruce Hutt, Benjamin A. Rasmussen, 1982 Principles of Genetics Robert H. Tamarin, 1999 Offering a balanced treatment of the major areas of

genetics classical and molecular population this text includes coverage of DNA cloning the Human Genome Project and plant genetics Critical thinking questions have been added to each chapter     **Mendelian Inheritance in Man** Victor Almon McKusick, Clair A. Francomano, Stylianos E. Antonarakis, 1990 A classic bibliographic guide to human genetics first published in book form in 1966 Each entry consists of six parts a preferred designation followed in parentheses by frequently used synonyms a brief description of the phenotype s the nature of the basic defect a resume of genetic information including mapping and molecular genetic details allelic variants and key references This edition contains 36 987 references mainly to the periodical literature and cites 54 623 authors Based on a continuously updated online version only four months separate closure of the file for the edition and the finished book Annotation copyrighted by Book News Inc Portland OR     **The American Biology Teacher** ,1997

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