

Crosses Involving Multiple Alleles

In previous activities, every gene was considered to have only two possible alleles. For example, the alleles of the gene for plant height in peas are either tall or short, and the alleles of the gene for fruit color in squash are either yellow or white. However, there are genes for which more than two different alleles exist. When this is the case the alleles are referred to as multiple alleles.

As you know, a diploid individual can carry only two alleles for any gene. This is because for each gene one allele is carried on each of the two chromosomes that constitute a pair of homologous chromosomes. But in a population of individuals, more than two alleles of a gene can exist. For example, one individual may have alleles 1 and 2 of a particular gene while another individual may have alleles 2 and 3 of that same gene. The best known example of multiple alleles involves the gene for blood type in humans. This gene has three different alleles and is located on chromosome 9, two copies of which exist in all human body cells. The alleles of this gene are designated as follows:

- I^A —codes for type A blood
- I^B —codes for type B blood
- i —codes for type O blood

I^A and I^B are each dominant over i , but are not dominant over each other. The possible genotypes and corresponding blood types are as follows:

genotype	phenotype (blood type)
ii	O
$I^A i$	A
$I^A I^A$	A
$I^B i$	B
$I^B I^B$	B
$I^A I^B$	AB

SAMPLE PROBLEM

A woman with type A blood whose father was type O married a man with type AB blood. What will be the possible genotypes and phenotypes of their children?

Step 1 Determine the genotypes of the parents.

Type A woman with type O father: $I^A i$

Type AB man: $I^A I^B$

$I^A i \times I^A I^B$

Step 2 Determine the gamete genotypes produced by each parent.

$I^A i \rightarrow I^A, i$

$I^A I^B \rightarrow I^A, I^B$

Step 3 Set up a Punnett square using the gamete genotypes.

	I^A	i
I^A		
I^B		

Genetics Problem Solving Crosses Involving One Trait Answers

William S. Klug, Michael R. Cummings

Genetics Problem Solving Crosses Involving One Trait Answers:

Genetics Richard P. Nickerson,1990 This workbook provides a valuable supplement for introductory genetics courses Its self instructional format helps students to master basic concepts of genetics and improve problem solving skills while actively engaged in the learning process [An Introduction to Biostatistics](#) Thomas Glover, Kevin Mitchell,2015-06-29 For over a

decade Glover and Mitchell have provided life sciences students with an accessible complete introduction to the use of statistics in their disciplines The authors emphasize the relationships between probability probability distributions and hypothesis testing using both parametric and nonparametric analyses Copious examples throughout the text apply concepts and theories to real questions faced by researchers in biology environmental science biochemistry and health sciences Dozens of examples and problems are new to the Third Edition as are Concept Checks short questions that allow readers to immediately gauge their mastery of the topics presented Regardless of mathematical background all readers will appreciate the value of statistics as a fundamental quantitative skill for the life sciences **Campbell Biology Australian and New Zealand Edition** Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V.

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Ebook: Plants and Society Estelle Levetin, Karen McMahon,2014-10-16 This introductory one quarter one semester text takes a multidisciplinary approach to studying the relationship between plants and people The authors strive to stimulate interest in plant science and encourage students to further their studies in botany Also by exposing students to society s

historical connection to plants Levetin and McMahon hope to instill a greater appreciation for the botanical world Plants and Society covers basic principles of botany with strong emphasis on the economic aspects and social implications of plants and fungi

Essentials of Genetics William S. Klug, Michael R. Cummings, 2002 For courses in Genetics found in biological sciences agriculture forestry and health sciences Essentials of Genetics presents a succinct less detailed overview of the discipline with balanced coverage of both classical and modern genetics Known for their clear writing style emphasis on concepts visual art program and thoughtful coverage of all areas of genetics the authors capture students interest with up to date coverage of cutting edge topics and research This text will help students connect the science of genetics to the issues of today through interesting and thought provoking applications

Introduction Biology Bonita Rookh, 1990 *Biology* Burton S. Guttman, Johns W. Hopkins, 1999 This fresh new approach to general biology integrates new research in genetics ecology evolution and molecular biology through four unifying conceptual themes Concepts are covered when appropriate in sufficient but not overwhelming detail The process of scientific discovery is emphasized and active learning is promoted through problem solving exercises in every chapter

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Soviet Genetics, 1992 *Journal of Biological Education*, 1989

Excel HSC Biology Diane Alford, Jennifer Hill, 2008 **Study Guide and Workbook, an Interactive Approach for Starr and McMillan's Human Biology, Third Edition** Jane B. Taylor, John D. Jackson, 1999 Asks the student to write all answers in this study guide workbook This workbook is interactive because it requires students to do things instead of just read more material All questions are arranged by chapter modules so students may skip unassigned material Each module in the study guide refers to the page numbers of the corresponding module in the text There is a wide variety of questions multiple choice questions tables to be filled in art to be labeled true false questions requiring students to write the correct answer if the statement is false thought provoking conceptual questions boldfaced terms requiring a written definition list of objectives in fill in the blank format and other types of questions

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Genetics Peter J. Russell,1992

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