

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

KJ Lindholm-Leary



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.

Minorsky,2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world s leading introductory biology textbook The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline It is the only biology text and media product that helps students to make connections across different core topics in biology between text and visuals between global and Australian New Zealand biology and from scientific study to the real world The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative superior pedagogy and innovative use of art and photos to promote student learning It continues to engage students with its dynamic coverage of the essential elements of this critical discipline This Tenth Edition with an increased focus on evolution ensures students receive the most up to date accurate and relevant information **The American Biology Teacher** ,2004 [Concepts of Genetics](#) William S.

Klug, Michael R. Cummings,1986 This book is known for its clear writing style emphasis on concepts visual art program and thoughtful coverage of all areas of genetics The authors capture readers interest with up to date coverage of cutting edge topics and research The authors emphasize those concepts that readers should come to understand and take away with them not a myriad of details and exceptions that need to be memorized and are soon forgotten In addition to topics traditionally covered in genetics this book has increased coverage of genomics including proteomics and bioinformatics biotechnology and contains more real world problems For anyone in biology agriculture or health science who is interested in genetics

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

The Software Encyclopedia, 1985 Test Item Folio Paul Leroy Dressel, Clarence Herbert Nelson, 1956 *Essential iGenetics* Peter J. Russell, 2003 Building on the proven strength of Russell s step by step problem solving approach Essential iGenetics blends a classic Mendel first approach with modern molecular coverage This easy to read introduction to genetics presents full coverage of the subject in a brief and manageable format Readers develop and apply critical thinking skills as they work step by step through a number of solved genetics problems Readers can also apply the principles and techniques learned to a variety of problems at the end of each chapter The book covers basic genetics principles with balanced coverage of Mendel historical experiments and cutting edge chapters on Genome Analysis and Molecular Evolution

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

Fundamentals of Genetics Peter J. Russell, 2000 Fundamentals of Genetics Second Edition provides a concise easy to read introduction to genetics Based on the author s best selling Genetics Fifth Edition the text is carefully crafted to present full coverage of the subject without overwhelming students with details and complex explanations A friendly writing style complements Russell s effective step by step problem

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Problem Solving Dorothy Gabel,1989 *Plant Breeding For Stress Environments* Abraham Blum,2018-01-18 This publication opens with the inevitable introduction moves on to the present traditional approach to breeding for yield stability and then enumerates a detailed discussion of the physiological approach to breeding for resistance to specific stresses Not all environmental stresses are covered omitting those for which little can be said today on practical breeding solutions

Genetics Peter J. Russell,1992

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