

## Genetics Problems

1. Suppose a father of blood type A and a mother of blood type B have a child of type O. What are the possible blood types of the mother and father?

Father: I<sup>A</sup>i    Mother: I<sup>B</sup>i

2. Suppose a father of blood type B and a mother of blood type O have a child of type O. What are the chances that their next child will be blood type O? Type B? Type A? Type AB?

type O: 50% or 1/2

Type B: 50% or 1/2

Type A: 0%

Type AB: 0%

I

3. Why is blood type inheritance an example of both codominance and complete dominance?

Alleles A and B are codominant – they are expressed equally (at the same time) when present in a cell (genotype I<sup>A</sup>I<sup>B</sup>), but both alleles A and B are dominant over allele O, when present in the heterozygous genotype (I<sup>A</sup>i or I<sup>B</sup>i)

4. Sickle-cell anemia is a condition in which the red blood cells of an individual can become shaped like the letter “C.” This shape prevents the red blood cells from moving easily through blood vessels. It can result in the cells clumping, blocking blood flow and causing pain, infection, and organ damage. The allele that causes sickle-cell anemia is autosomal recessive (s), and the dominant allele can be represented by S.

(a) For the following families, determine the genotypes of the parents and offspring. When it is not possible to decide which genotype an individual is, list both.

(i) Two normal parents have four normal children and one with sickle-cell anemia.

Parents both Ss

normal children: either Ss or SS

child with sickle cell anemia: ss

(ii) A normal male and a female with sickle-cell anemia have six children, all normal.

normal male: most likely SS, but could be Ss (sample size is too small to tell for sure);

female: ss

6 normal offspring: Ss

(iii) A normal male and a female with sickle-cell anemia have six children; three are normal, and three have sickle-cell anemia.

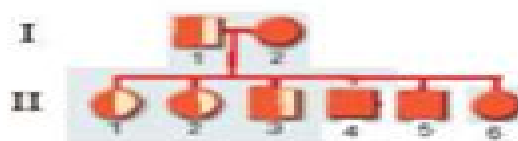
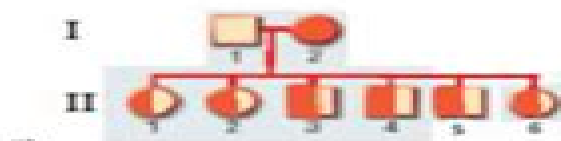
Normal male: Ss

female with sickle cell anemia: ss

3 normal children: Ss

3 children with sickle cell anemia: ss

(b) Construct a pedigree chart for the families in (ii) and (iii).



# Genetics Problems Worksheet Answers

**John H. Postlethwait, Janet L. Hopson**



## **Genetics Problems Worksheet Answers:**

*A Contemporary Autobiography of a Science Educator* Scott D. Robinson, 2008-01-01 A Contemporary Autobiography of a Science Educator reminds readers that they teach who they are and understanding who they are is fundamental for meaningful communication and effective classroom instruction The book is for science educators teacher educators and others who wish to examine their own personal and professional identities in the social and cultural contexts in which their lives are embedded Just as teaching can be viewed as relationship with others this contemporary autobiography is situated on the significance of relationship with self As a contemporary autobiography the narrative reveals the author's subjective truths while digging deeply into psychosocial motives of power and intimacy The author reflects on his personal choices and career decisions that led him into and out of high school science teaching The book contains stories and reflections from summer work camp experiences undergraduate college days teacher preparation episodes and high school science teaching Story themes are diversity and leadership group identity and motivation urban teaching and teacher preparation and high school science teaching These themes evolve out of nuclear episodes of the author's storied life that brings present day understanding and meaning from past actions and interactions This kind of critical introspection may hold special relevance for teachers teacher educators and others who wish to make their own identities salient and relevant to their own needs and interests as well as the needs and interests of students teacher candidates and clients whom they serve Handbook of Research for Educational Communications and Technology David Jonassen, Marcy Driscoll, 2003-12-08 First Published in 2008 Routledge is an imprint of Taylor Francis an informa company *Handbook of Research on Educational Communications and Technology* David H. Jonassen, 2004 This edition of this handbook updates and expands its review of the research theory issues and methodology that constitute the field of educational communications and technology Organized into seven sectors it profiles and integrates the following elements of this rapidly changing field **Universal Teaching Strategies** H. Jerome Freiberg, Amy Driscoll, 2000 This book presents teaching from three specific actions Organizing Instructing and Assessing and is divided into three sections which reflect each of these teaching actions The strategies presented in each section are truly universal in nature they cut across grade levels subject areas and teaching situations The book emphasizes Context Content and Learner as essential elements in the decision making process This book bridges the gap between theory research and practice with clear and effective writing and a framework that combines the context content and learner with what teachers need in the real world organizing instructing and assessing *Universal Teaching Strategies* expands both the pedagogical teaching knowledge of teachers and their instructional repertoires For the continuing education of pre service and in service teachers **Molecular and Quantitative Animal Genetics** Hasan Khatib, 2015-03-02 Animal genetics is a foundational discipline in the fields of animal science animal breeding and veterinary sciences While genetics underpins the healthy development and breeding of all living organisms this is especially true in domestic animals specifically with respect

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**Forum** ,2003 *Conceptual Change Strategies in Teaching Genetics* Laura Elizabeth Batzli,1999 **Managing Social Anxiety** Debra A. Hope,Richard G. Heimberg,Cynthia L. Turk,2019 The third edition of Managing Social Anxiety A Cognitive Behavioral Therapy Approach Workbook is for individual or group cognitive behavioral therapy for social anxiety with adults This is an evidence based approach backed by over three decades of research **English Teaching Forum** ,2000

**Growing Beyond Our Genetics** Paula M. Potter,2007 Contemporary Approaches To Research On Learning Environments: Worldviews Darrell Fisher,Myint Swe Khine,2006-05-25 Learning environment research has undergone considerable growth in the past thirty years and has now reached a stage of notable diversity and internationalization Earlier studies often used questionnaires to assess learning environments but today both qualitative and quantitative approaches are used Many contemporary studies are a productive combination of these two approaches This volume brings together prominent educators and researchers from around the world to share their contemporary research on educational learning environments The chapters provide information on recent trends and developments and effective applications of different methods to improve teaching and learning The book will be a critical and specialized source that describes recent advances in learning environment studies across all continents The contributors come from Australia Belgium Cyprus Finland India

Indonesia Israel Japan The Netherlands New Zealand Singapore Turkey Taiwan Thailand and the USA     Resources in Education ,1975     **Girls and Literacy in America** Jane Greer,2003-05-23 An exploration of the fascinating and controversial history of girls education in America from the colonial era to the computer age Girls and Literacy in America offers a tour of opportunities obstacles and achievements in girls education from the limited possibilities of colonial days to the wide open potential of the Internet generation Six essays written by historians and focused on particular historical periods examine the extensive range of girls literacies in both educational and extracurricular settings Girls from various ethnic and racial backgrounds social classes religions and geographic areas of the nation are included A host of primary documents including such items as an 18th century hornbook to excerpts from girls conversations in Internet chat rooms allow readers an opportunity to evaluate for themselves some of the materials mentioned in the volume s opening essays And finally an extensive bibliography will be invaluable to students expected to conduct more extensive primary research

*Explore Life* John H. Postlethwait,Janet L. Hopson,2003-08 Using a variety of exercise formats traditional guided inquiry and design your own this manual written by Doreen Schroeder helps students ask good questions and think critically Students will analyze data draw conclusions and present those conclusions They will also be challenged to make connections between lab exercises between lecture and lab and between biology in the laboratory or lecture hall and their own life Each exercise in the student manual contains an overview an introduction a materials list the methods and application questions Where appropriate time has been built into the exercises for discussion and interactions between students and between students and instructors The exercises are also adaptable to different situations and time frames The instructor s manual gives suggestions for adapting the exercises in addition to a complete supplies list including some sources sample lab format and suggested answers for questions and or worksheets To see the first two chapters of this great new lab manual visit [http://www.brookscole.com/cgi/brookscole/course\\_products\\_bc.pl?fid=M20bI&product\\_isbn\\_issn=0030225582&discipline\\_number=22](http://www.brookscole.com/cgi/brookscole/course_products_bc.pl?fid=M20bI&product_isbn_issn=0030225582&discipline_number=22) Select Laboratory Experiments under Book Resources on the left hand navigation bar at the Instructor site     **Children and Their Families** Vicky R. Bowden,Susan B. Dickey,Cindy Smith Greenberg,1998     **Annotated Instructor's Edition for Investigating Biology** Judith Giles Morgan,1999     Management of Laboratory Animal Care and Use Programs Mark A. Suckow,Fred A. Douglas,Robert H. Weichbrod,2001-11-28 The management of biomedical research using animals has become increasingly complex due to new technology increased regulatory oversight and recognition of the need for animals free of disease and distress Within this changing environment individuals charged with the management of laboratory animal facilities have a substantial responsibility to the institution the public and the animals Management of Laboratory Animals Care and Use Programs provides both factual and theoretical information drawn from the substantial experience of authors who are noted experts in the field This book will provide individuals with the basic knowledge and information necessary to meet typical professional challenges A co publication with the American Association for Laboratory Animal Science this

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