

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^Ai Mother: I^Bi

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%

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^AI^B), but both alleles A and B are dominant over allele O, when present in the heterozygous genotype (I^Ai or I^Bi)

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

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Silverman, Martha Olsen Schult**

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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 Conceptual Change Strategies in Teaching Genetics Laura Elizabeth Batzli, 1999 *Teacher's Wraparound Edition: Two Biology Everyday Experience* Albert Kaskel, 1994-04-19 **English Teaching Forum**, 2003 *Forum*, 2003 *Journal of Biological Education*, 1993 **Annotated**

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