

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

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.

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

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

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

5. Examine the pedigree charts in Figures 13 and 14.

(a) Determine whether the mode of inheritance for the traits is autosomal dominant or autosomal recessive. Explain.

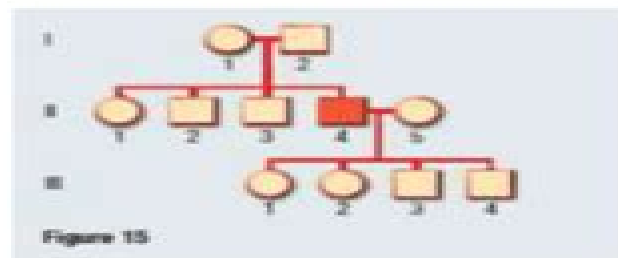
(b) Label the genotype of each individual in the pedigree chart. Assume that the dominant allele is A and the recessive allele is a .



6. Hairy ears is a rare condition that is sex linked. Let H be the dominant allele (non-hairy ears) and h be the recessive allele (hairy ears).

(a) Examine the pedigree chart in Figure 15. Determine if the condition is X-linked or Y-linked.

(b) Label all possible genotypes.



7. The alleles for human blood types A and B are codominant, but both are dominant over the type O allele. The Rh factor is separate from the ABO blood group and is located on a separate chromosome. The Rh^+ allele is dominant over the Rh^- . Indicate the possible phenotypes from mating a woman with type O, Rh^+ , with a man with type A, Rh^+ . The man is homozygous for type A and heterozygous for Rh factor.

8. Why is sample size important in a genetic investigation?

Genetics Problem Solving Worksheet

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Burmester**



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Holt Biology Chapter Resource File 15 Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 *Conceptual Change Strategies in Teaching Genetics* Laura Elizabeth Batzli, 1999 e-Learning and the Science of Instruction Ruth C. Clark, Richard E. Mayer, 2011-01-20 In this thoroughly revised edition of the bestselling e Learning and the Science of Instruction authors Ruth Colvin Clark and Richard E Mayer internationally recognized experts in the field of e learning offer essential information and guidelines for selecting designing and developing asynchronous and synchronous e learning courses that build knowledge and skills for workers learning in corporate government and academic settings In addition to updating research in all chapters two new chapters and a CD with multimedia examples are included **Development of Life Skills-II** Shalini Verma, Life skills are essentially individual abilities that help in promoting mental well being and competence in people to deal with the various situations in life This book presents various aspects of life skills including communication self analysis self development and study habits These are crucial elements in determining one s personal and professional growth Developed in accordance with the new syllabus of the West Bengal Council of Technical Education and written in an interactive style this course book will help the students inculcate the various life skills and enhance their acceptability and growth in this highly competitive world **KEY FEATURES** Opening Case Study in every chapter along with case analysis based class discussion to encourage students to apply their analytical skills Assess Your Understanding to test understanding and assimilation of the information shared in the passages Story Time with short interesting stories that allow learners to develop critical thinking skills from the old classics In class Team Activity in the form of role plays debates discussion etc Experiential Learning to gauge the students understanding of the concepts and to measure how much of the learning they are able to apply in real life **Programed Genetics: Extension of the theory** Chester Alvin Lawson, Mary Alice Burmester, 1966 Teaching Genetics in an Introductory Biology Course Kristina A. Porter, 2004 *Proceedings of the 7th International Conference on Learning Innovation and Quality Education (ICLIQE 2023)* Moh Salimi, Gunarhadi Gunarhadi, Ratna Hidayah, Dewanta Arya Nugraha, 2024-11-22 This is an open access book The 7th International Conference on Learning Innovation and Quality Education ICLIQE 2023 is organized by Faculty of Teacher Training and Education The purpose of the ICLIQE 2023 activity is as a forum to accommodate researchers academics educators and education staff consultants government and other stakeholders to share perspectives related to educational trends seen from the perspective of society 5.0 era which includes the fields of science and technology education social and humanities management education basic education special education early childhood education guidance and counseling curriculum and educational evaluation and innovation Minding the Body Workbook Jason M. Satterfield, 2008 Having a serious illness can be incredibly difficult especially when there is no cure As your disease progresses not only your physical health but your entire well being may be affected Unfortunately most of your medical care may only treat your body However there are things that you and your

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