

Genetics Problems

- 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?
- 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?
- 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.

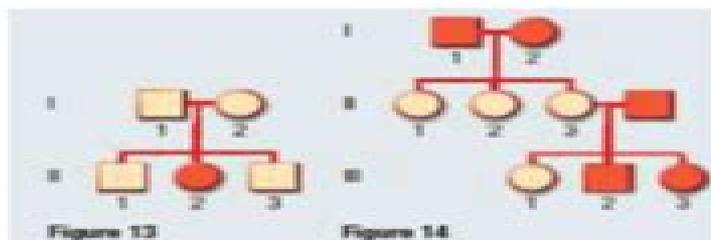
- Two normal parents have four normal children and one with sickle-cell anemia.
- A normal male and a female with sickle-cell anemia have six children, all normal.
- A normal male and a female with sickle-cell anemia have six children; three are normal, and three have sickle-cell anemia.

(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.

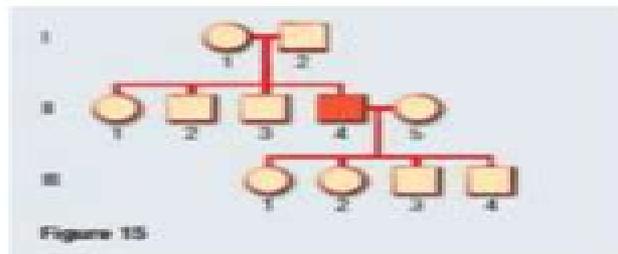
(b) Label the genotype of each individual in the pedigree chart. Assume that the dominant allele is A and the recessive allele is a .



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?

Solving Problems In Genetics Genetic Analysis Explained For Students

Leopold E. Klopfer



Solving Problems In Genetics Genetic Analysis Explained For Students:

Solving Problems in Genetics Richard Kowles, 2013-12-01 The principle objective of this book is to help undergraduate students in the analysis of genetic problems Many students have a great deal of difficulty doing genetic analysis and the book will be useful regardless of which genetics text is being used Most texts provide some kinds of problems and answers few if any however show the students how to actually solve the problem Often the student has no idea how the answer was derived This work emphasizes solutions not just answers The strategy is to provide the student with the essential steps and the reasoning involved in conducting the analysis Throughout the book an attempt is made to present a balanced account of genetics Topics therefore center about Mendelian cytogenetic molecular quantitative and population genetics with a few more specialized areas Whenever possible the student is provided with the appropriate basic statistics necessary to make some of the analyses The book also builds on itself that is analytical methods learned in early parts of the book are subsequently revisited and used for later analyses A deliberate attempt is made to make complex concepts simple and sometimes to point out that apparently simple concepts are sometimes less so on further investigation Any student taking a genetics course will find this book an invaluable aid to achieving a good understanding of genetic principles and practice

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the book an attempt is made to present a balanced account of genetics Topics therefore center about Mendelian cytogenetic molecular quantitative and population genetics with a few more specialized areas Whenever possible the student is provided with the appropriate basic statistics necessary to make some of the analyses The book also builds on itself that is analytical methods learned in early parts of the book are subsequently revisited and used for later analyses A deliberate attempt is made to make complex concepts simple and sometimes to point out that apparently simple concepts are sometimes less so on further investigation Any student taking a genetics course will find this book an invaluable aid to achieving a good understanding of genetic principles and practice

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Genetics, 1995 Produced for unit SBB213 Genetics offered by the Faculty of Science and Technology s School of Biological and Chemical Sciences in Deakin University s Open Campus Program

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