

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.

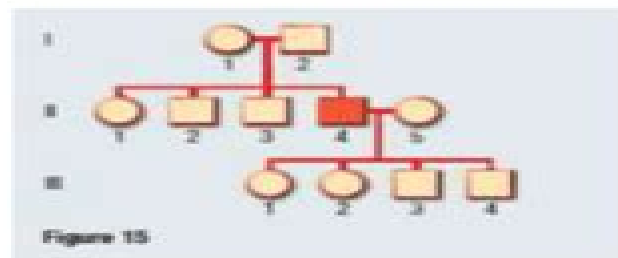
(b) Label the genotype of each individual in the pedigree chart. Assume that the dominant allele is A and the recessive allele is a .



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?

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