

## 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%

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).



# Introduction To Genetics Solving Heredity Problems Answers

**S Ashworth**



## **Introduction To Genetics Solving Heredity Problems Answers:**

## Unveiling the Magic of Words: A Review of "**Introduction To Genetics Solving Heredity Problems Answers**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Introduction To Genetics Solving Heredity Problems Answers**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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the basic substructuring idea is to consider a substructure a part of the model separately and eliminate all but the degrees of freedom needed to connect this part to the rest of the model so that the substructure appears in the model as a substructure a collection of finite elements whose response is defined by the stiffness and mass o

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in abaqus standard the response within a substructure once it has been reduced to a substructure is considered to be a linear perturbation about the state of the substructure at the time it is made into a substructure

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set this parameter equal to yes default if the substructure eigenproblem needs to be solved during substructure generation in abaqus substructure eigenvectors can be used to define substructure modal damping for a given substructure abaqus

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the purpose of this example is to provide basic demonstration and verification of the substructuring capabilities in abaqus  
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