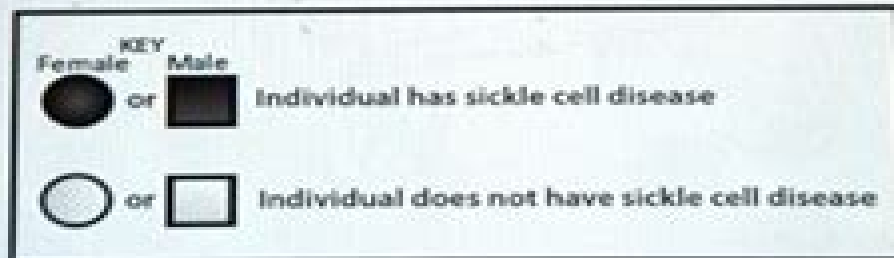
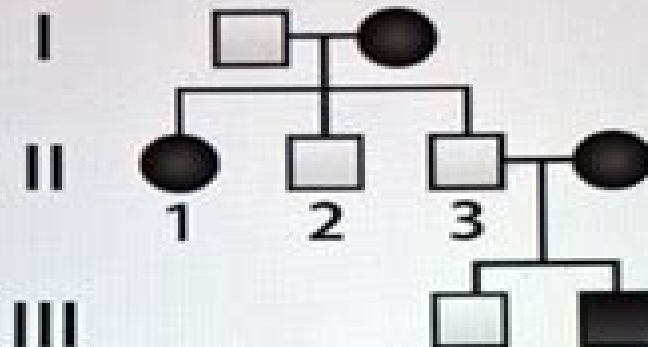


PEDIGREES

6. The following pedigree traces sickle cell disease through three generations of a family. Use the pedigree to answer the following questions.



- What is the genotype of the father in the first generation? - **Aa**
- What is the genotype of the daughter in the second generation? - **aa**
- What is the genotype of individual 3 in the second generation? How do you know?

The genotype of individual 3 in the second generation is **Aa**. The individual does not have sickle cell disease, but they are a carrier for the disease. As shown in the pedigree above, when they are mated with an affected female, 50% of their offspring will be affected while the other 50% are carriers.

- If the couple in the second generation has another child, what are the chances the child will have the following?
Sickle cell disease 50% Sickle cell trait 50% Completely normal hemoglobin 0%
- If the entire family moves to the lowlands of East Africa, four of the five males in the pedigree will have two genetic advantages over the other individuals in the family. Explain the two advantages.

x



Reading A Human Pedigree Sickle Cell Answer Key

Yijin Wang



Reading A Human Pedigree Sickle Cell Answer Key:

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