	Laboratory	1	Investig	ration
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CHAPTER 3 m Human Genetics

Reading a Human Pedigree

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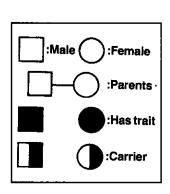
How can you use a human pedigree to trace the inheritance of sickle cell anemia through several generations of a family?

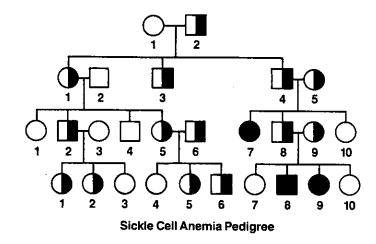
Materials

paper pencil

Procedure

- 1. Study the following key for the symbols used on a human pedigree.
- 2. Study the pedigree shown here. This pedigree traces the pattern of inheritance of sickle cell anemia in several generations of a single family.





Observations

- 1. How many generations are shown on the pedigree?_____
- 2. Which parent in the first generation had sickle cell anemia?
- 3. How many children were born in the second generation?
- 4. How many of these children are carriers of sickle cell anemia?
- 5. How many children in the third generation have sickle cell anemia? How many are