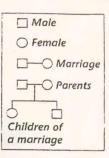
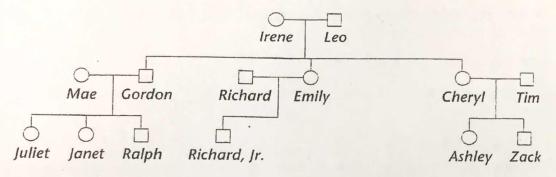
The sample pedigree below is similar to the pedigree you will create for the Chapter 4 Project. Study the sample pedigree, and then answer the questions that follow.





Write your answers in the spaces provided.

- 1. What is the name(s) of Irene's and Leo's son(s)? What is the name(s) of their son(s)-in-law?
- 2. How many grandchildren do Irene and Leo have? How many of their grandchildren are girls?
- 3. What is the name of Ralph's father? What is the name of Ashley's mother?
- 4. What is the name of Emily's son? What is the name of Tim's son?
- 5. After this pedigree was made, Richard and Emily had another son, whom they named Roger. Juliet married a man named Robert and had a daughter named Elizabeth. Zack married a woman named Jean and had a son named Craig. Add all of these individuals to the pedigree.

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Cells and Heredity

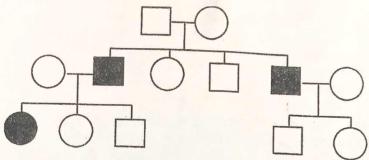
(Attachment 1)

Activity taken from Prentice Hall, Inc

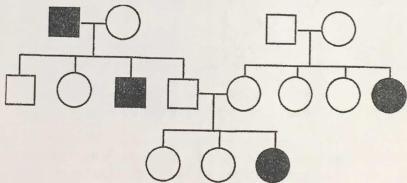
## SIMPLE PEDIGREE PRACTICE

Name	
	Pd

1. Albinism is a recessive disorder affecting humans. If someone has this disorder, they can not produce skin pigment, and have the genotype aa. The pedigree below shows people with albinism.



- On the pedigree, mark each person's genotype. If a dominant individual's genotype is unknown, write A\_\_\_.
- How many people have the disorder?
- Both generation I-1 and I-2 must have what genotype? \_\_\_\_\_ How do you know?
- If generation III-4 marries an albino woman and has a child, what is the probability that the child will have the disorder? Use a Punnett square to justify your answer.
- 2. Some groups of people in rural Kentucky are affected with a skin disorder called *Blue offspring*, where the skin appears to be bright blue. The pedigree below shows people who have this disorder.



- How many individuals have the Blue offspring disorder?
- Look at generation I-3 and I-4. Neither of these people have the disorder, but their last daughter, II-8 does. What does this tell you about the disorder? Use a punnett square to justify your answer.
- Fill in the genotypes for the pedigree, using the letter B.