Green Hair!
Pedigree Worksheet

On the planet Dyejob, green hair is a recessive trait. Great Grandma and Great Grandpa Berg both have green hair. So do their three children. They were surprised to find that three of their great-grandchildren have green hair too, even though all their grandchildren have black hair. The Bergs concluded that their grandson Bobby must be a carrier of the green hair gene. Shown below is a pedigree of the Berg family. Use the pedigree to answer the following questions.
1. Label the generations using Roman numerals to the left of the pedigree.

2. Label each individual from left to right in each generation.

3. Determine the genotype of each individual on the pedigree.

4. This trait is recessive. Based on the pedigree, how can you tell?

5. How many children did Becky and Billy have?

6. How many people in generation III are carriers?

7. How many males are on this pedigree? How many females?

8. How are Beatrice and Basil related?

9. How are Bianca and Becky related?

10. Bunny, who has blond hair, is a carrier of the green hair gene so her genotype is Rr. She claims to be the long lost child of Great Grandma and Great Grandpa Berg. Should they include her as a daughter in their will? Explain. Hint: Use a Punnett Square!