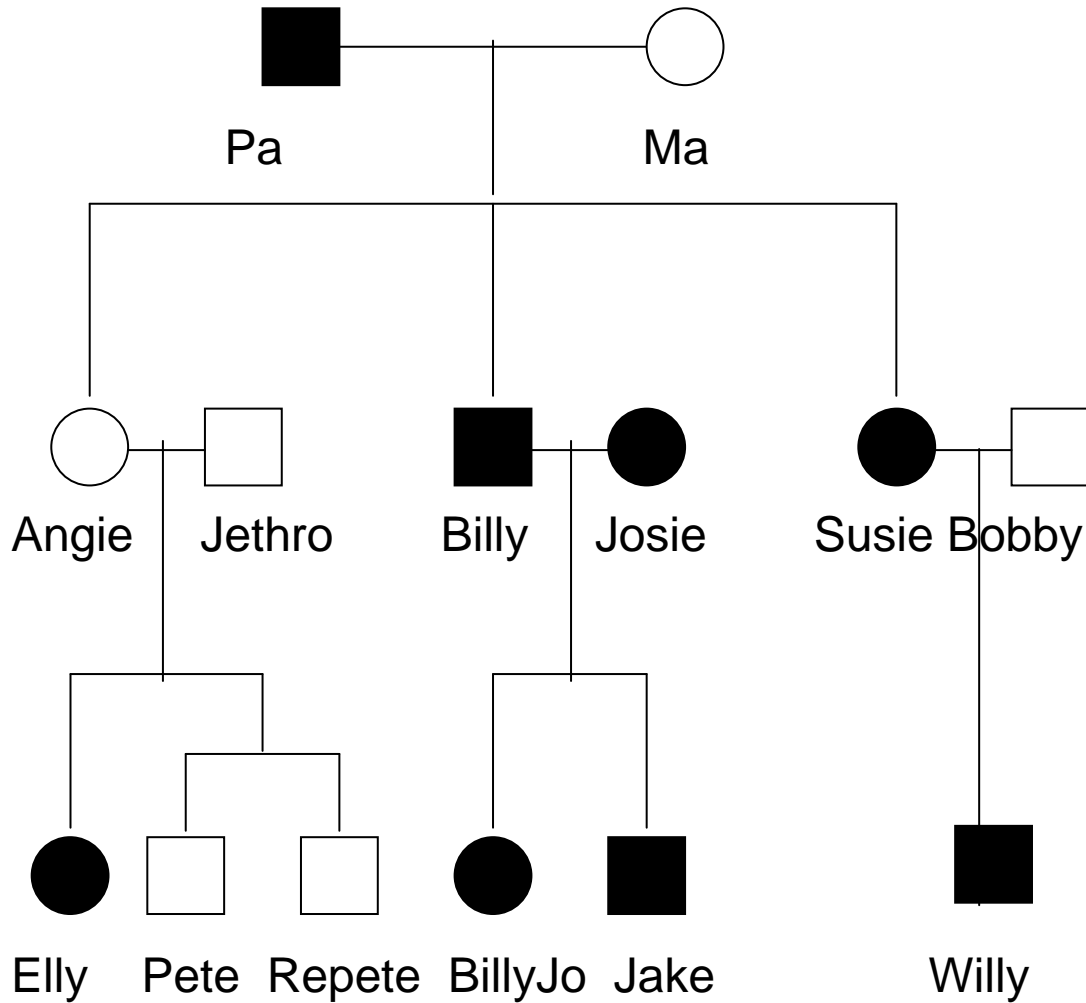


A PEDIGREE OF POLYDACTYLY

The Klampett family have an inherited characteristic called polydactyly (extra fingers and toes). The pedigree below shows affected family members as shaded shapes. Examine the pedigree, and then answer the questions that follow.



Q1. What are the names of the children of Pa and Ma?

Q2. How many sons and daughters does Billy have?

Q3. How are Pete and Repete related?

Q4. How many people in the pedigree have polydactyly?

Q5. Is the gene / allele for polydactyly dominant or recessive?
Explain.

Q6. What are the genotypes for:

(a) Ma _____

(b) Angie _____

(c) Pa _____

Q7. If Jake married a woman with no family history of polydactyly, what is the possibility of their children having polydactyly? (Show all working.)

