









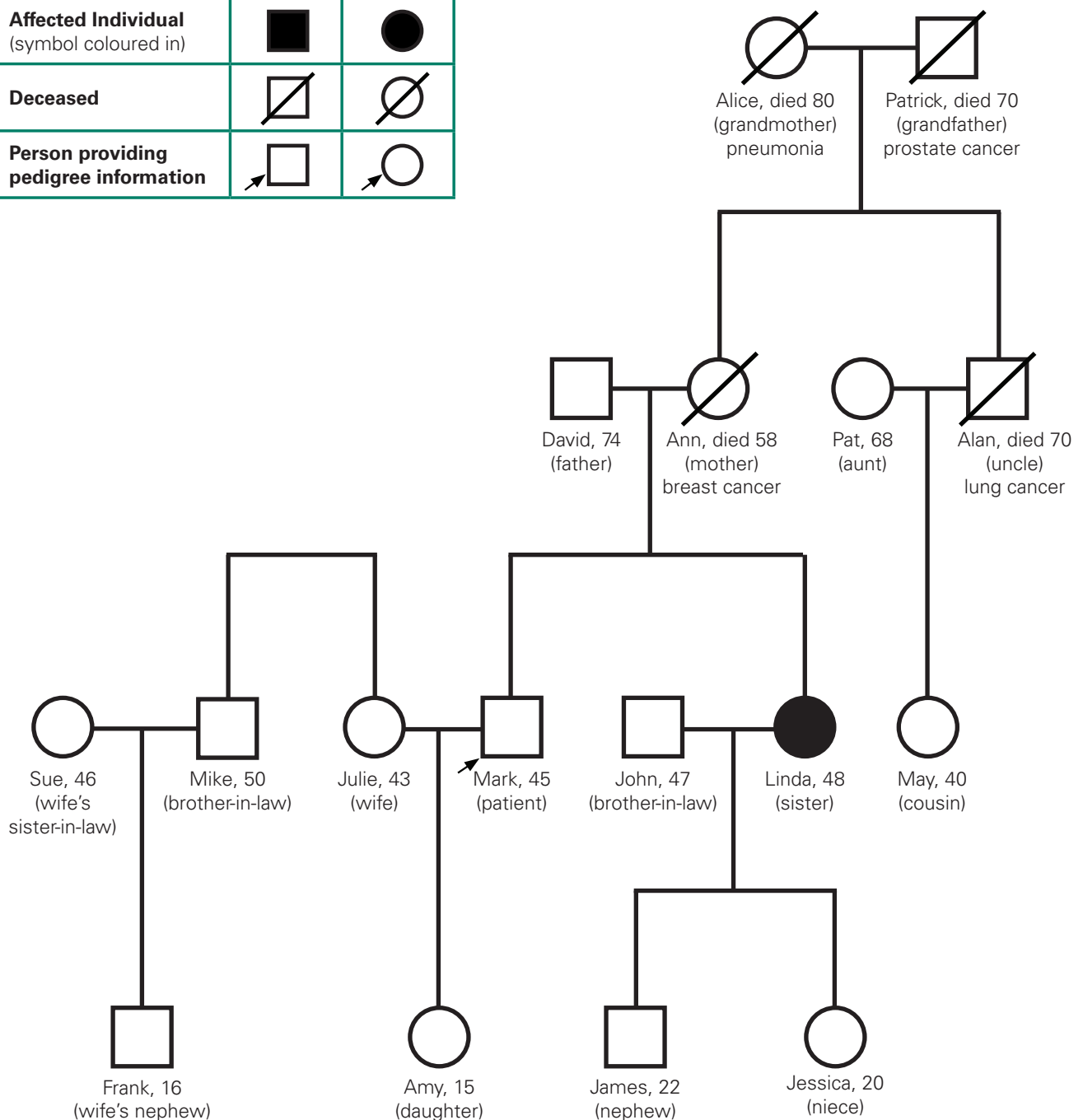
GENOME GENERATION

Follow up activity 1 - Answer sheet

AMY AND THE BREAST CANCER TEST

1. Use the information provided by Mark to draw a pedigree. Make sure you include each person's name, age and relationship to Mark.









	Male	Female
Individual		
Affected Individual (symbol coloured in)		
Deceased		
Person providing pedigree information		

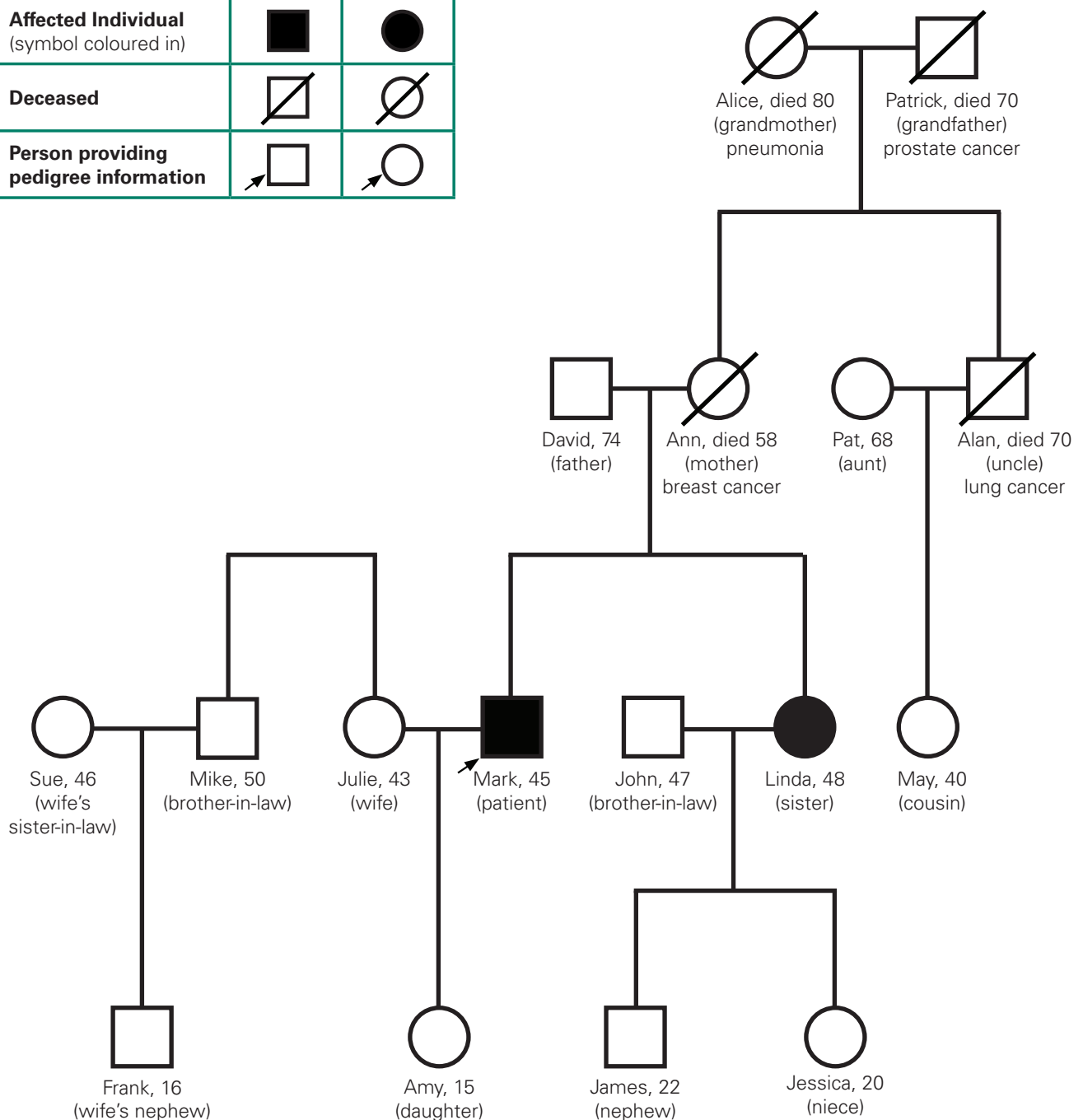


GENOME GENERATION

Scenario 1 follow up activity - Answer sheet

2. The test results reveal that Mark is a carrier of the *BRCA1* mutation. Add this to the pedigree.

	Male	Female
Individual		
Affected Individual (symbol coloured in)		
Deceased		
Person providing pedigree information		



3. Which other family members are possibly at risk of having the *BRCA1* mutation? What is their risk of having the *BRCA1* mutation?

Four people could be at risk:

- **Amy** is at risk as her father is a carrier. She has a 50% risk of having the *BRCA1* mutation.
- **James** and **Jessica** are at risk as their mother is a carrier. They have a 50% risk of having the *BRCA1* mutation.
- **May** could be at risk as her aunt, Ann, died of breast cancer and her cousins (Mark and Linda) have the *BRCA1* mutation.