

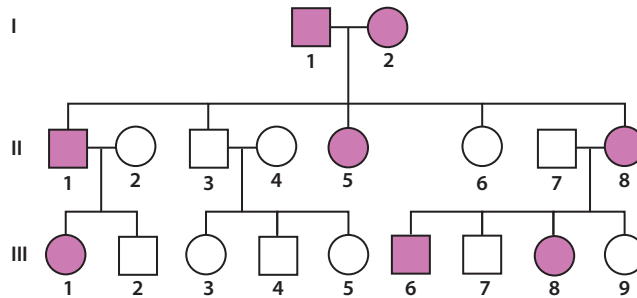
Name: \_\_\_\_\_

Class: \_\_\_\_\_

**WORKSHEET**

**23.1 Pedigree charts**

1 Examine the pedigree below and answer the following questions.

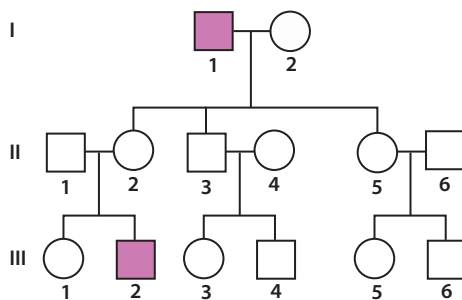


a What type of inheritance is shown? Explain.

b Using the symbols 'A' and 'a', give the genotypes for:

- Individual (I2):
- Individual (II5):
- Individual (III6):
- Individual (II2):
- Individual (III4):
- Individual (III9):

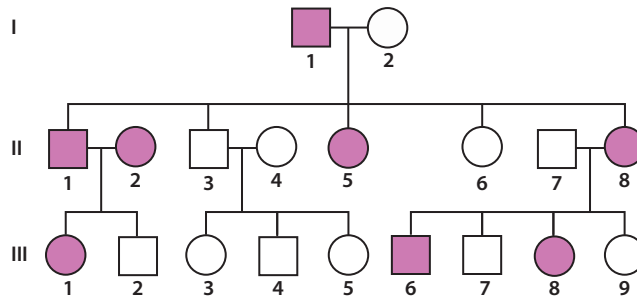
2 Examine the pedigree chart below.



a What evidence (from the pedigree) demonstrates that the characteristic is an X-linked recessive trait?

b State a possible genotype for individual (III2) and provide a key for the symbols used.

3 The following pedigree chart begins with a mating between a man with black hair and a woman with blonde hair.

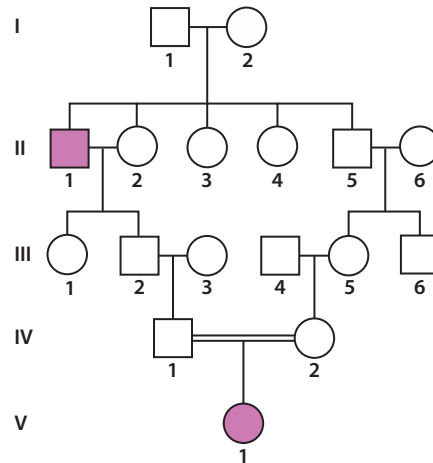


a What pattern of inheritance is shown? Explain.

b Using the symbols 'B' and 'b', determine the genotypes for all individuals in the pedigree. (Show all genotypes on the pedigree.)

c Are there any individuals whose genotypes you are unsure about? If so, which individuals and why?

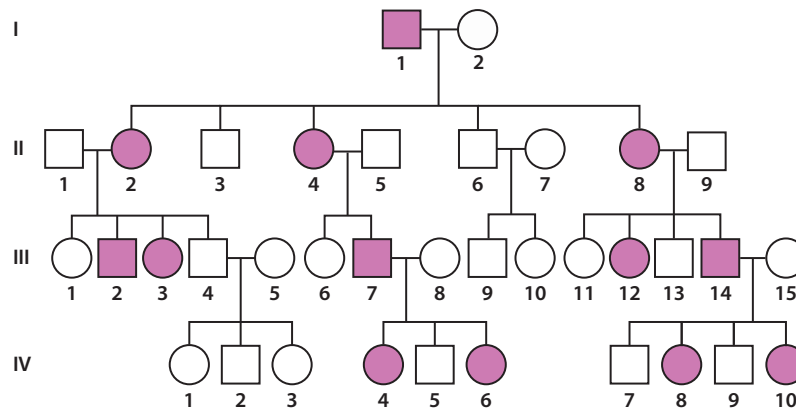
4 Examine the pedigree chart.



a What is the relationship between individual (IV1) and individual (IV2)?

b Can the genotype for individual (V1) be explained by her parents' marriage? Why or why not?

5 Examine the pedigree below and answer the following questions.



a What type of inheritance is shown? Explain.

