

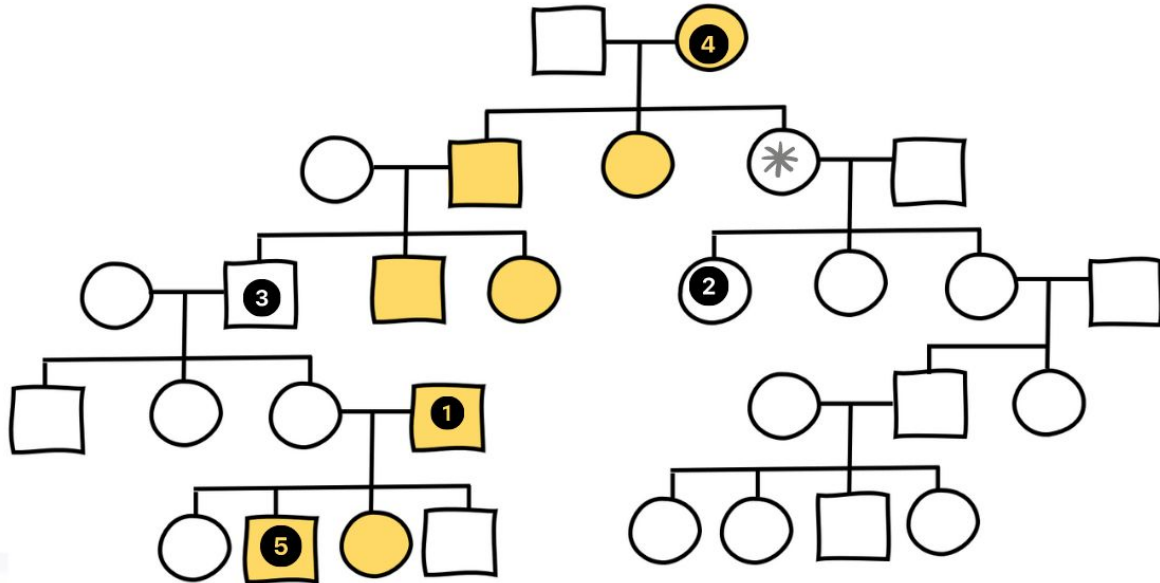
Pedigree Worksheet 5: Autosomal Dominant Traits

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Name _____

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Comprehension Skills



Huntington's disease is a rare, inherited neurodegenerative disorder. Symptoms include uncontrolled involuntary movements and cognitive decline. The pedigree above illustrates the inheritance pattern of Huntington's disease. Using this pedigree, answer the following questions:

1. Based on the pedigree above, does the inheritance pattern of Huntington's disease appear to be X-linked or autosomal? What clues support your conclusion? _____
2. Does the inheritance pattern of Huntington's disease represent a dominant or recessive disorder? How do you know? _____
3. After examining the pedigree, you determine that there are no Huntington's disease carriers present. What does this mean? _____
4. Individual II-3 (marked with an asterisk) appears to be unaffected. How is this possible? _____
5. List the potential genotypes of each of the following labeled individuals (make sure to define your letter notations of choice):
 - a. #1: _____
 - b. #2: _____
 - c. #3: _____
 - d. #4: _____
 - e. #5: _____
6. How many children in the fourth generation had Huntington's disease? _____
7. How many males had Huntington's disease? _____
8. How many females are unaffected by Huntington's disease? _____