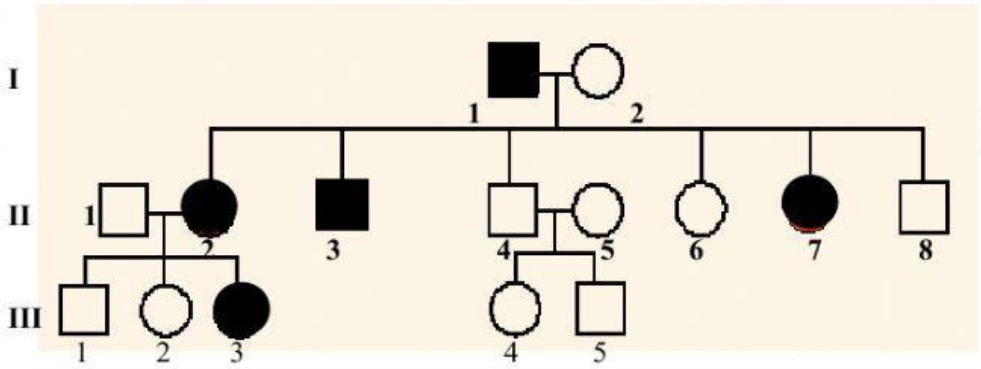
Pedigree Worksheet Name _____



= Huntington's Disease

1. Which members of the family above are afflicted with Huntington's Disease? _____

2. There are no carriers for Huntington's Disease- you either have it or you don't.
With this in mind, is Huntington's disease caused by a dominant or recessive trait? _____

3. How many children did individuals I-1 and I-2 have? _____

4. How many girls did II-1 and II-2 have? _____ How many of these daughters have Huntington's Disease? _____

5. How are individuals III-2 and II-4 related? _____ I-2 and III-5? _____

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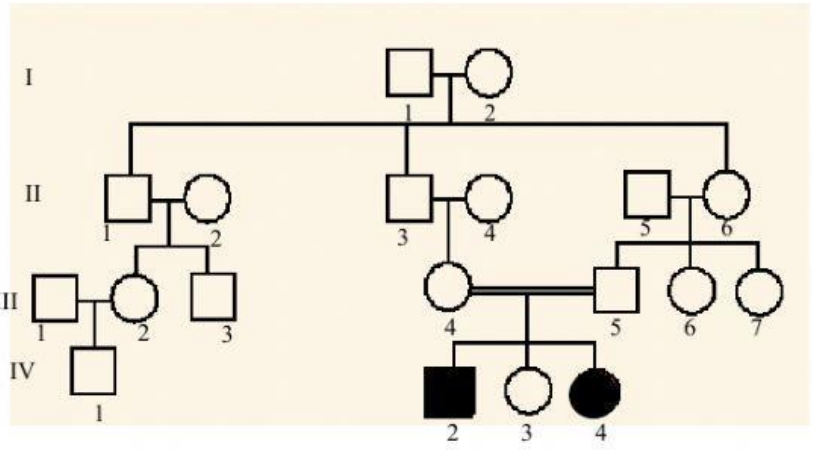
6. The pedigree to the right shows a family's pedigree for Hitchhiker's Thumb. Is this trait dominant or recessive? _____

7. How do you know? _____
_____

8. How are individuals III-2 and III-3 related? _____

9. How would you name the 2 individuals that have hitchhiker's thumb? _____

10. Name the 2 individuals that were carriers of hitchhiker's thumb. _____



11. Is it possible for individual IV-3 to be a carrier? _____ Why? _____

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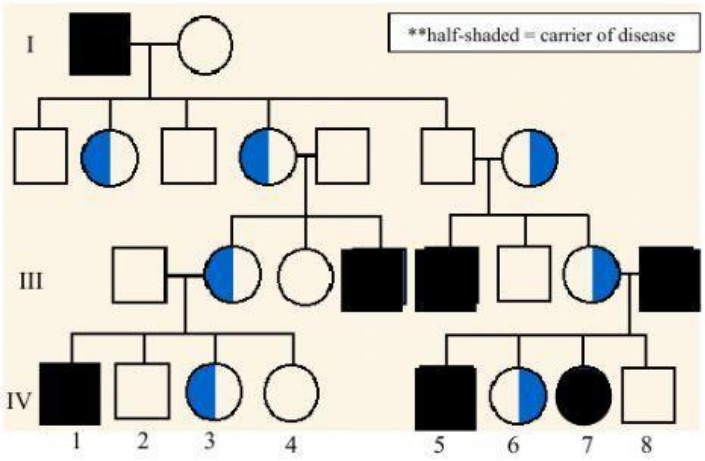
12. The pedigree to the right shows a family's pedigree for colorblindness. Which sex can be carriers of colorblindness and not have it? _____

13. With this in mind, what kind of trait is colorblindness (use your notes)? _____

14. Why does individual IV-7 have colorblindness?
_____

15. Why do all the daughters in generation II carry the colorblind gene? _____

16. Name 2 generation IV colorblind males. _____



LIVEWORKSHEETS

Name _____

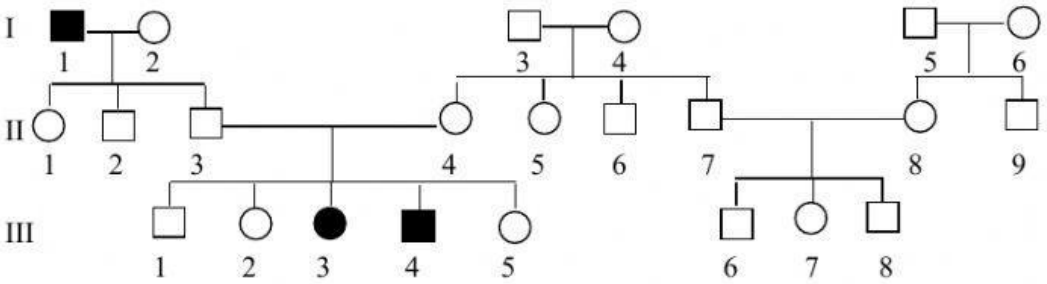
Genetics Pedigree Worksheet

A pedigree is a chart of a person's ancestors that is used to analyze genetic inheritance of certain traits – especially diseases. The symbols used for a pedigree are:

○ female, unaffected	□ male, unaffected
● female, affected	■ male, affected

- Siblings are placed in birth order from left to right and are labeled with numbers.
- Each generation is labeled with a Roman numeral.
  - Example: we would name an individual II-3 if he/she was in the second generation and the 3rd child born

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Try to identify the genotypes of the following individuals using the pedigree above.
(homozygous dominant, homozygous recessive, heterozygous)

- III-3: _____
- II-1: _____
- I-1: _____
- II-4: _____

1. Is this trait dominant or recessive? Explain your answer.

_____
_____
_____

2. How can you know for sure that individuals II-3 and II-4 are heterozygous?

_____
_____

3. Do you think the cross above is sex-linked or autosomal? Explain your answer.

LIVEWORKSHEETS