$\qquad$ Date: $\qquad$

## Pedigree Worksheet

A family tree of sorts is called a pedigree. The symbols used for a pedigree are:female, unaffected

- female, affected
$\square$ male, unaffected
Siblings are placed in birth order from left to right and are labeled with Arabic numerals. Each generation is labeled with a Roman numeral. Therefore, the male exhibiting the trait in the pedigree below in the bottom, center would be identified as III-4.
male, affected


1. Which members of the family above are afflected by 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 $\mathrm{I}-1$ and $\mathrm{I}-2$ have?
4. How many girls did II-1 and II-2 have?
5. How are individuals III-2 and II-4 related?

12. The pedigree above shows the passing on of colorblindness. What sex is MOST likely to be carriers of colorblindness?
13. Why does individual IV-7 (a female) have colorblindness?
14. Why do all the daughters in generation II carry the colorblind gene?
15. List 2 IV generation colorblind males.

16. Is this trait dominant or recessive? Explain your answer.
17. What gave you the essential information to decide that II-3 and II-4 were heterozygous?
18. Brown eyes are a dominant eye-color allele and blue eyes are recessive. A brown-eyed woman whose father had blue eyes and whose mother had brown eyes marries a brown-eyed man whose parents are also brown-eyed. They have a son who is blue-eyed.

Draw a pedigree (info above) showing all four grandparents, the two parents, and the son. Indicate each individuals possible genotypes.

