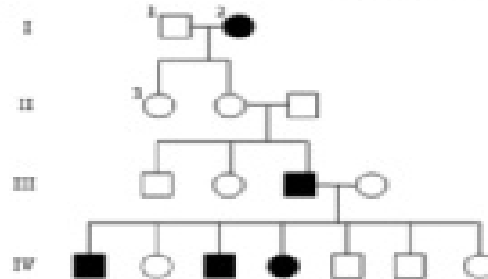


**Pedigree Worksheet**

Name \_\_\_\_\_  
 Period \_\_\_\_\_ Date \_\_\_\_\_

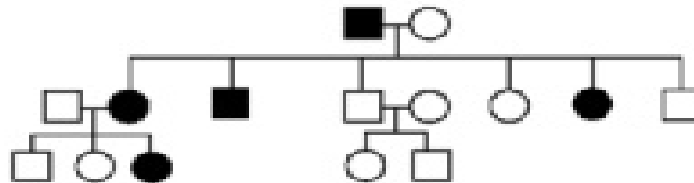
**Interpreting a Human Pedigree**  
 Use the pedigree below to answer 1-5



- In a pedigree, a square represents a male. If it is darkened, he has hemophilia; if clear, he had normal blood clotting.
  - How many males are there? \_\_\_\_\_
  - How many males have hemophilia? \_\_\_\_\_
- A circle represents a female. If it is darkened, she has hemophilia; if open she is normal.
  - How many females are there? \_\_\_\_\_
  - How many females have hemophilia? \_\_\_\_\_
- A marriage is indicated by a horizontal line connecting a circle to a square.
  - How many marriages are there? \_\_\_\_\_
- A line perpendicular to a marriage line indicates the offspring. If the line ends with either a circle or a square, the couple had only one child. However, if the line is connected to another horizontal line, then several children were produced, each indicated by a short vertical line connected to the horizontal line. The first child born appears to the left and the last born to the right.
  - How many children did the first couple (couple in row I) have? \_\_\_\_\_
  - How many children did the third couple (couple in row II) have? \_\_\_\_\_
- Level I represent the first generation, level II represents the second generation.
  - How many generations are there? \_\_\_\_\_
  - How many members are there in the fourth generation? \_\_\_\_\_

Use the pedigree below to answer 6-12

Shaded individuals have Huntington's Disease



- Write the generation on the pedigree numbers (roman numerals).
- Which members of the family above are afflicted with Huntington's Disease? \_\_\_\_\_
- 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? \_\_\_\_\_
- How many children did individuals I-1 and I-2 have? \_\_\_\_\_
- How many girls did II-1 and II-2 have? \_\_\_\_\_ How many have Huntington's Disease? \_\_\_\_\_
- How is individual II-2 and II-4 related? \_\_\_\_\_ I-2 and II-5? \_\_\_\_\_
- Write the genotypes of each individual on the pedigree.