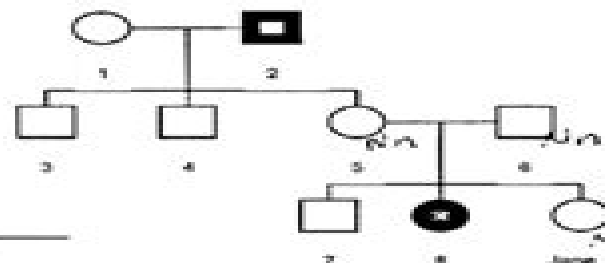


Pedigree Practice #2 Worksheet

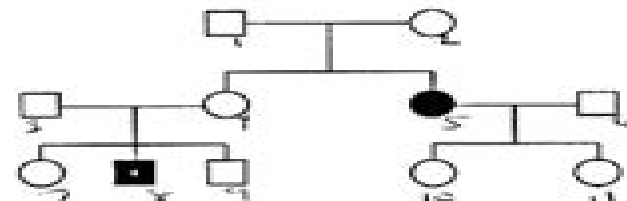
PROBLEM # 1: The pedigree below shows the recessive trait for nearsightedness in Jane's family. Jane, her parents, and her brother all have normal vision. Use N for the dominant allele and n for the recessive allele.

- How many generations are represented in this pedigree? 3
- How many children did the first couple (1 & 2) have? 3
- How many marriages are shown on this pedigree? 2
- What is the sex and genotype of individual # 2?
male - nn
- What are Jane's possible genotypes? could be NN or Nn
- What are the genotypes of individuals 5 & 6 with individual # 5 given first?
Nn x Nn
- What is the probability that individuals # 5 & 6 will have a child that is nearsighted?
25%



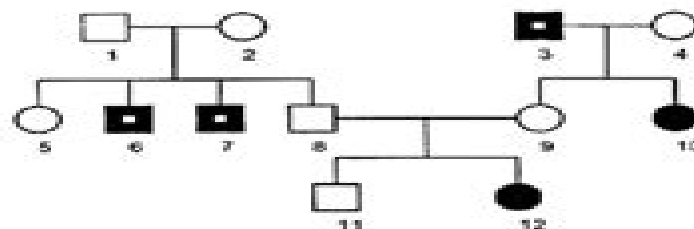
PROBLEM # 2: Phenylketonuria (PKU) is an inborn error of metabolism of the amino acid phenylalanine. The following pedigree shows a family affected by PKU (shaded in shapes). Use P for the dominant allele and p for the recessive allele.

- How is PKU inherited? Explain. Aut - rec
- Which individuals in this pedigree have PKU?
5 & 8
- What are the genotypes of individuals # 1 & 2?
Pp x Pp
- What are the genotypes of individuals # 3 & 4?
Pp x Pp



PROBLEM # 3: Earlobes in humans are either attached (shaded in shapes) or detached. Answer the following questions based on the pedigree below. Use F for the dominant allele and f for the recessive allele.

- Which trait is dominant, attached or detached earlobes?
detached
- Is this trait sex-linked or non-sex-linked? Explain.
non - females / males affect equally
- What are the genotypes of individuals # 1 & 2?
Ff x Ff
- What is the genotype of individual # 4?
Ff
- What are the genotypes of individuals # 8 & 9?
Ff x Ff



Genetics Pedigree Worksheet 1 Answer Key

Patrick Vollmar



Genetics Pedigree Worksheet 1 Answer Key:

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