

### 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.

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



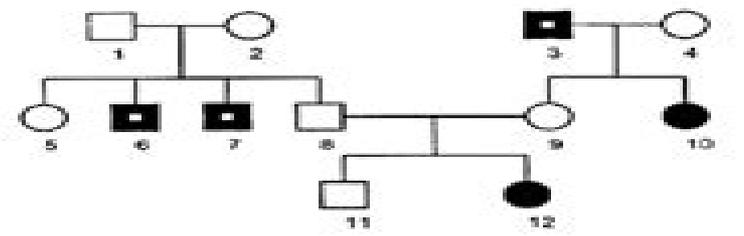
**PROBLEM # 2:** Phenylketonuria (PKU) is an inborn error of metabolism of the amino acid phenylalanine. The following pedigree shows a family affected by PKU (shaded in shapes). Use *P* for the dominant allele and *p* for the recessive allele.

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

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



# Genetics And Pedigree Problems Answer Key

**CH Cherryholmes**



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