$\qquad$ Period $\qquad$
Directions: Study the pedigree charts and answer the questions.


## Pedigree for a family with Nearsightedness

Nearsightedness-or myopia-is a recessive trait. Use the symbols N and n to label the genotype for each of the numbered individuals. The shaded regions indicate individuals who are nearsighted.


1. Record the genotypes for each of the family members on the pedigree chart.
2. How many generations are shown in the pedigree?
3. How many offspring did the parents in the first generation have?
4. How many of those children (question \#3) are married?
5. If the couple (\#9 \& \#10) have another child what percent chance will that child have of inheriting nearsightedness?(hint: draw a Punnet square)

## Pedigree for Free or Attached EAR Lobe Traits

Free ear lobes is a dominant trait. Attached ear lobes is a recessive trait. Use the symbols $E$ and $e$ to label each of the numbered individuals. The shaded regions indicate individuals with attached ear lobes.


1. Record the genotypes for each of the family members on the pedigree chart.
2. How many generations are shown in the pedigree?
3. How many offspring did the parents in the second generation have?
4. How many of those children (question \#3) are married?
5. If the couple (\#8 \& \#9) children what percent chance will they have of inheriting attached earlobes?(hint: draw a Punnet square)
