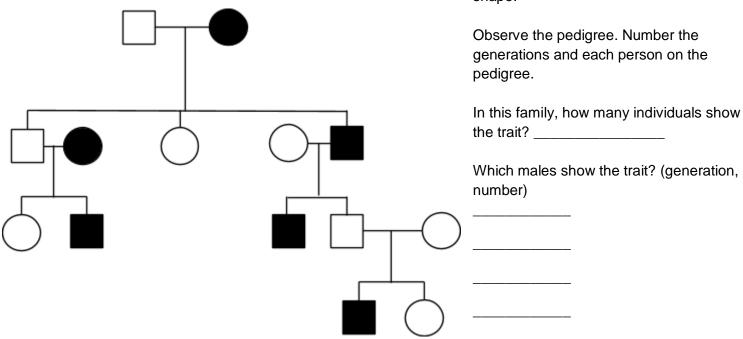
Name:				

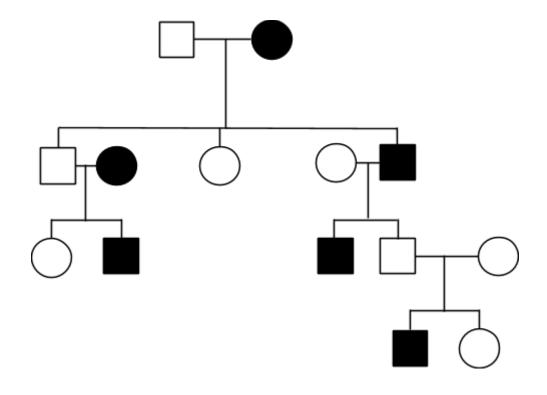
Pedigree Charts

A pedigree for any family, be it dogs, cats or humans, shows the pattern of inheritance in a family for a specific trait. Males are shown as squares and females are shown as circles. Each generation is shown as a Roman numeral and each person in a generation is numbered. The trait *that is being expressed* is shown as a shaded shape.



Determining genotypes

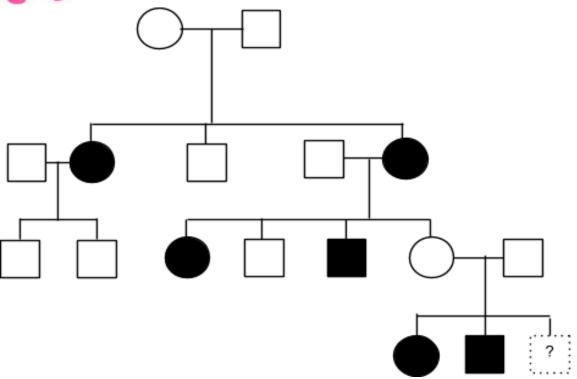
Follow along in the <u>presentation</u> so you can figure this out. N = normal feet, n = webbed feet. Write down the genotypes of each individual under him/her.



Can you determine the g	enotype of individual IV	7,2? Explain why or	wny not	



Use the information and the pedigree to answer the following questions. In monsters, the allele for having one eye is dominant (A). The allele for two eyes is recessive (a). The pedigree shows the occurrence of one eye and two eyes in four generations of a family.



Label the generations and individuals

Answer the following questions.

- 1. Which of these individuals in the pedigree is a male with the genotype aa?
 - a. Individual I-1
 - b. Individual II-2
 - c. Individual III-2
 - d. Individual III-5

			two little monsters a third child will have		ing a third or	ne. Their two	children have two
	a. 25%b. 50%c. 75%d. 100%				_		
3.	Show how y	ou answered	question 2 with a Pu	unnett square.			
4.	Complete ea	ach of the follo	owing Punnett squar	res			
	Α	а		Α	Α	_	
а			А				
а			а				
	Α	Α		A	а	_	
а			А				
а			а				
5.	Circle the Po	unnett square	shows the cross be	tween Individu	al II-4 and Ir	ndividual II-5	
6. Wh	nat do you thin	k is useful ab	out knowing how to	read a pedigre	e chart?		