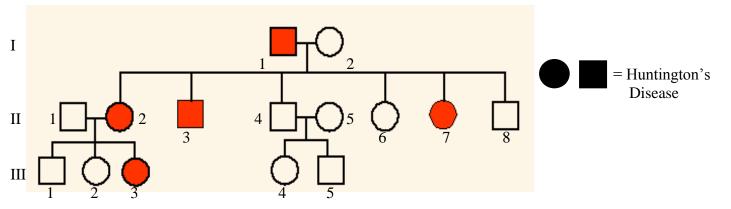
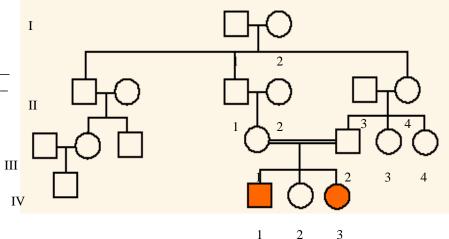
Pedigree	Workshee	et.
I cuigi cc	1 1 OI ISSUE	v

Name _____

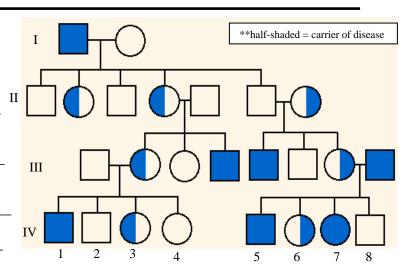


- 1. Which members of the family above are afflicted with Huntington's Disease?
- 2. There are no carriers for Huntington's Disease- you either have it or you don't.

 With this in mind, is Huntington's disease caused by a dominant or recessive trait?
- 3. How many children did individuals I-1 and I-2 have?
- 4. How many girls did II-1 and II-2 have? How many have Huntington's Disease? _____
- 5. How are individuals III-2 and II-4 related? ______ I-2 and III-5? _____
- 6. The pedigree to the right shows a family's pedigree for Hitchhiker's Thumb vs having a straight thumb. Is this trait a straight thumb dominant or recessive?
- 7. How do you know? _____
- 8. How are individuals III-1 and III-2 related?
- 9. How would you name the 2 individuals that have straight thumbs? _____
- 10. Name the 2 individuals that were carriers of straight thumbs.



- 11. Is it possible for individual IV-2 to be a carrier? _____ Why? _____
- 12. The pedigree to the right shows a family's pedigree for colorblindness. Which sex can be carriers of colorblindness and not have it?
- 13. With this in mind, what kind of trait is colorblindness (use your notes)?
- 14. Why does individual IV-7 have colorblindness?
- 15. Why do all the daughters in generation II carry the colorblind gene?
- 16. Name 2 IV generation colorblind males. _____



	female, unaffected	male, unaffected	
	female, affected	male, affected	
Each generati		ed with numbers. was in the second generation and the 3 rd child born	
$\begin{bmatrix} & & & & & \\ & 1 & & 2 & \\ & 1 & & 2 & \\ & 1 & 2 & 3 & \\ & & & & \end{bmatrix}$	3 4 4 5 6 7	5 6 5 8 9	
III 📙	2 3 4 5	6 7 8	
(homozygo	genotypes of the following individuals uous dominant, homozygous recessive, her	0 1 0	
17. Is this trait do	minant or recessive? Explain your answe	;	
	know for sure that individuals II-3 and II-	4 are heterozygous?	
	• • •	nd round eyes are recessive. An almond-eyed	

19. Almond shaped eyes are a dominant eye-shape allele and round eyes are recessive. An almond-eyed woman whose father had round eyes and whose mother had almond eyes marries a almond-eyed man whose parents are also almond-eyed. They have a son who is round-eyed. Please draw a pedigree showing all four grandparents, the two parents, and the son. Indicate which individuals you are certain of their genotype and where there is more than one possibility.