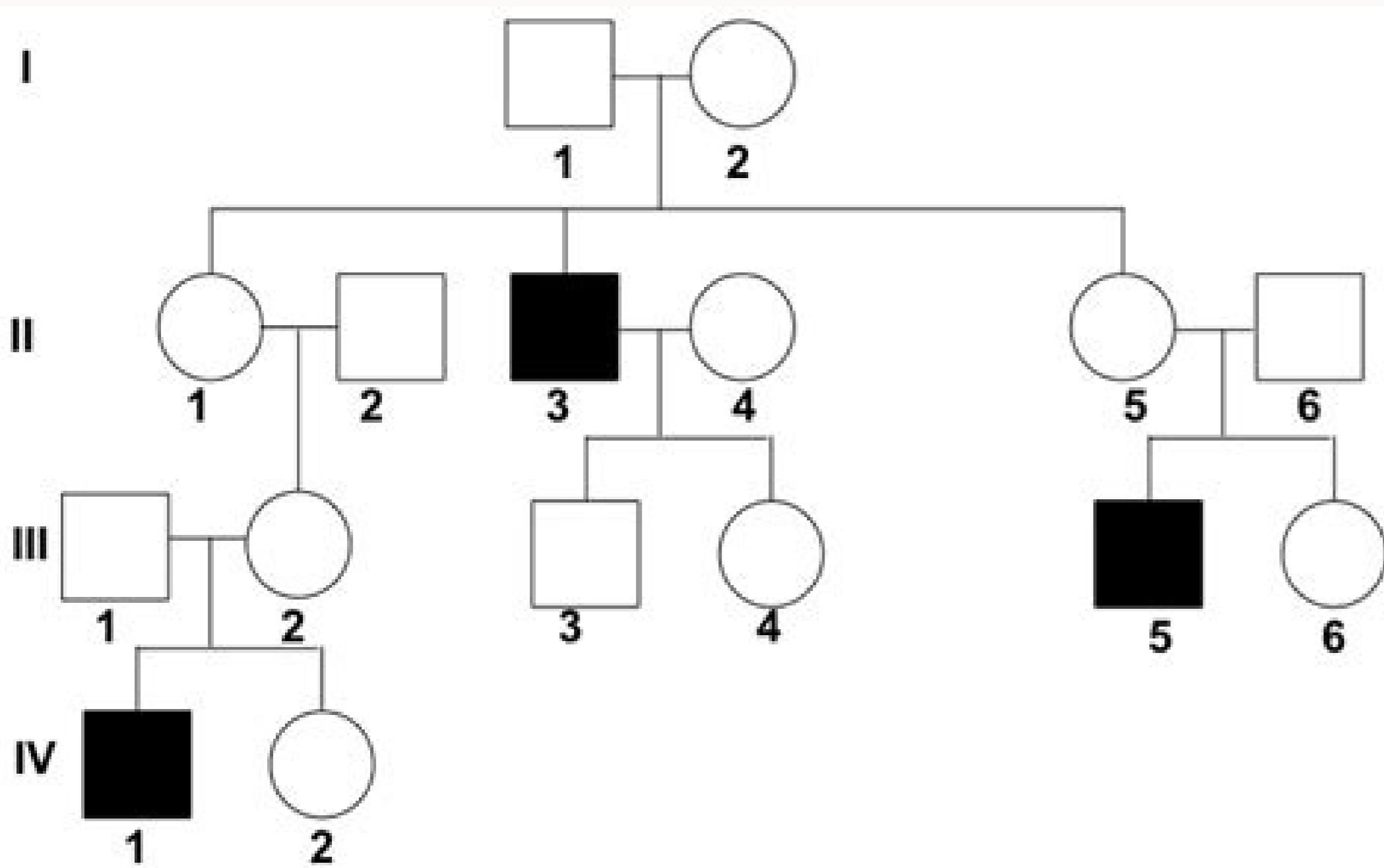
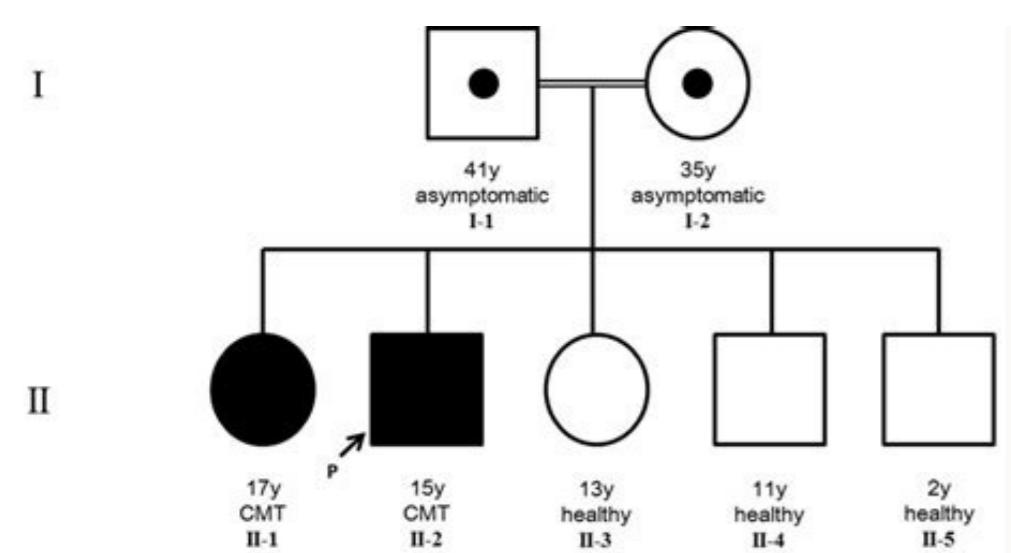


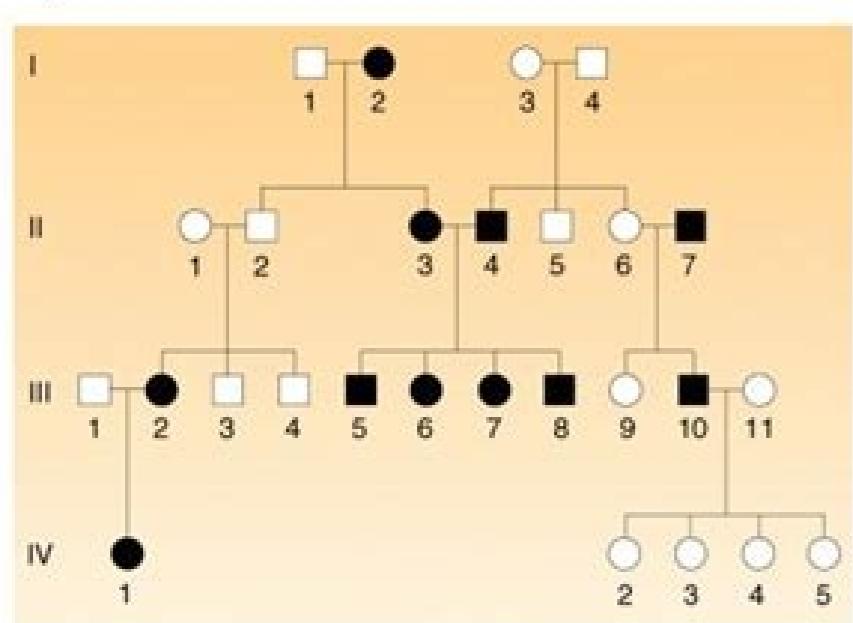
## **Autosomal recessive inheritance worksheet**

**I'm not a robot!**





Pedigree worksheet for class.



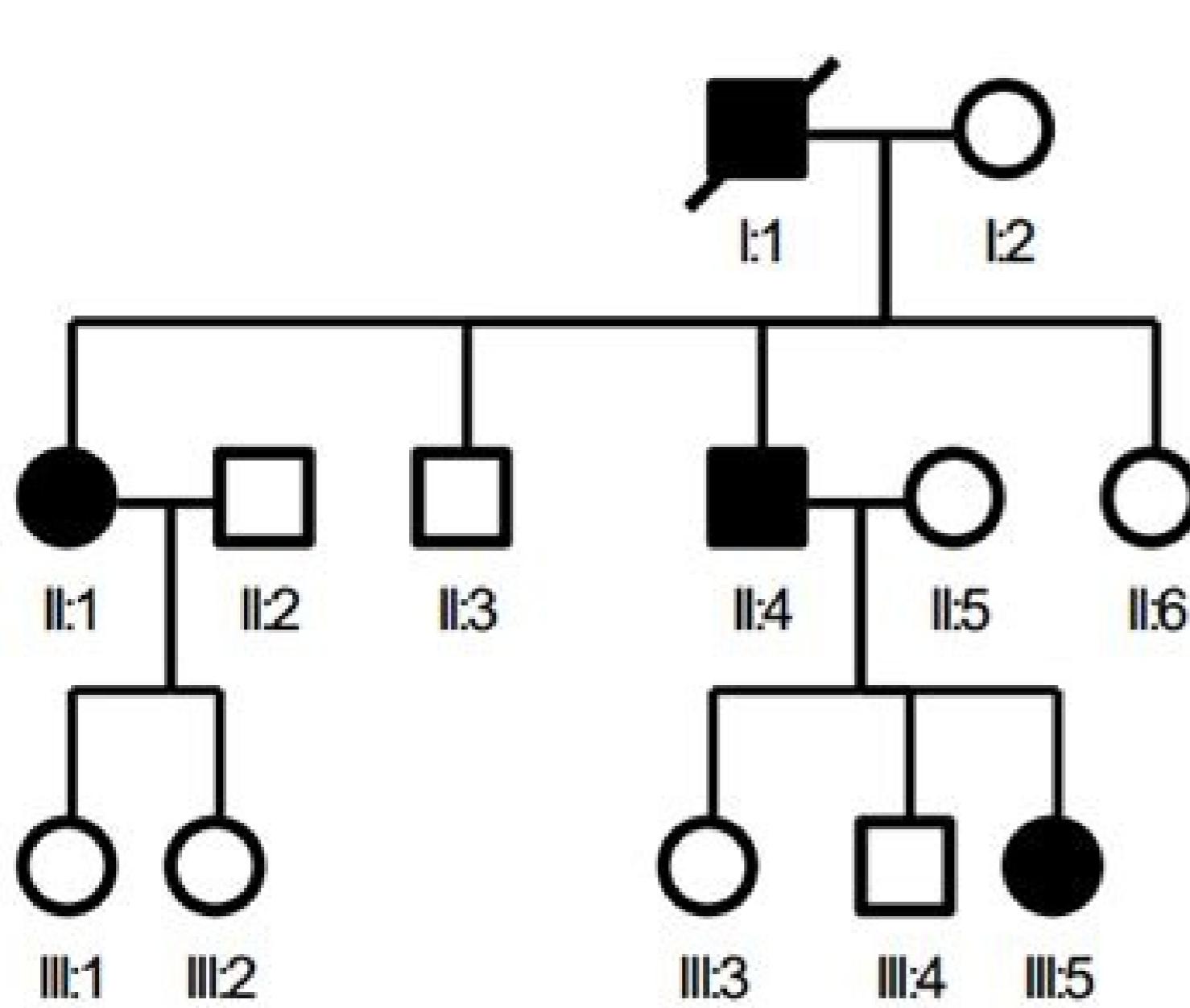
This pedigree shows the inheritance of a fairly common trait.

We know that this trait cannot be dominant. Please indicate one individual who demonstrates this fact.

We know that this trait cannot be sex-linked recessive. Please identify ONE individual with the trait who proves this, explaining briefly.

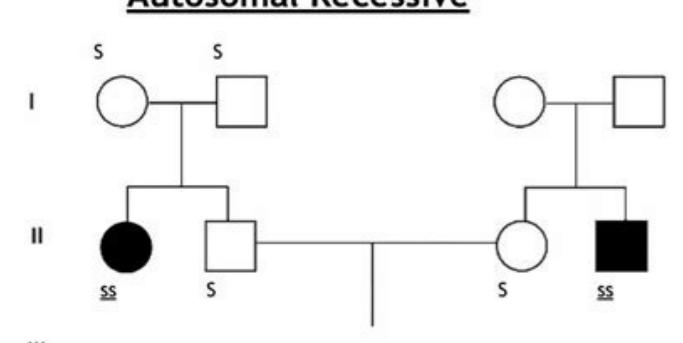
So, we are left with autosomal recessive, and that some of the people shown must be carriers of the trait. For each of the following, please state whether the individual MUST be a carrier (answer yes or no):

I-1 \_\_\_\_\_ III-3 \_\_\_\_\_ IV-2 \_\_\_\_\_  
(Just for practice, indicate the genotypes of everyone in the pedigree, distinguishing A- from Aa people.)



#### Lesson Overview Human Chromosomes

##### Autosomal Recessive



Autosomal recessive inheritance worksheet answers. What is the difference between autosomal dominant and autosomal recessive inheritance. What is autosomal recessive inheritance. Autosomal recessive inheritance worksheet answer key. What is autosomal linked inheritance. Examples of autosomal recessive inheritance.

Autosomal Recessive Inheritance Blank Pedigree Autosomal Recessive Inheritance Pedigree Answers When completing this pedigree with autosomal recessive inheritance, individuals that are shaded are expressing the recessive phenotype and have a genotype of  $\text{aa}$ . Use this knowledge and additional knowledge about how genes are passed from generation to generation to complete the remainder of the pedigree. Patterns for Autosomal Recessive Inheritance After filling in the genotypes for individuals in several family trees that exhibit this mode of inheritance, some patterns that can be noticed are: Males and females have the same chance of expressing the trait. You can only express the trait if you are homozygous. If both parents express the trait, then all their offspring should also express the trait. If the offspring express the trait but their parents don't, then both parents are heterozygous. If one parent expresses the trait, then their offspring who don't express it are heterozygous. The trait can skip generations. Real examples: Sudden Cardiac Death of the Young/Long QT Syndrome. A recessive and dominant form; recessive is associated with profound deafness. Cystic Fibrosis, PKU, Sickle Cell Anemia, Tay-Sachs Disease, Alzheimer's Disease. Remember: Genes act in pairs, one from each parent. Gene pairs separate during meiosis and the formation of the chromosomes. When the sperm fertilizes the egg, the father's genes (and chromosomes) join the mother's, or both contribute to the genetic makeup of the offspring. One form of a gene may be dominant over another form which is recessive and the dominant form would be expressed. Additional Resources: NHLBI Sickle Cell Disease Management Guidelines Inborn Errors of Metabolism Treatment I use this worksheet with my students to review the genetics inheritance pattern called Autosomal recessive. There are four story problems in Work sheet in which the students analyze imaginary families, will create squares and pedigree of Punnett and determine the probability of healthy children based on the results of the Punnett square. Too many workshops that accompany the textbooks seem to focus on Punnett's squares that deal with Mendel and his pea plants. But I think we teachers we have to connect genetics to examples of real life. Provide the color of the flowers and the color of the seeds are beautiful, but in contact with real life. But foreseeing the health of children not yet born is like making genetics relevant with your students. This worksheet provides examples of self-employed heredity using cystic fibrosis, albinism and pku as examples. We advise you to teach your students how to create pedigree before giving this sheet of work. I have another lesson to help teach pedigree for sale if you are interested. There are four files with this download: 1) Jobs in Microsoft Word 2) Work sheet in Dwelling PDF 3) Key response in Microsoft Word 4) Key response in the words of the PDF key in Dimo



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