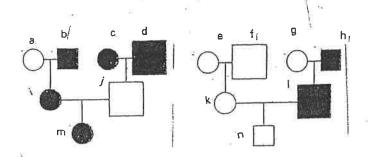
D. APPLICATION

Redheaded awarfs

One type of dwarfism in humans is controlled by a single gene that affects the growth of cartilage in the limbs. Individuals with this gene are normal in all respects, including head and body size, except that their arms and legs are very short. Suppose that a red-haired dwarf of this type matries a dark-haired dwarf, also of this type. The following chart shows the immediate blank symbols indicate red hair; dark symbols indicate dark hair).



1	a.	Is the gene for this type of dwarfism dominant or
57		recessive?
	Ъ.	How do you.know?
2	2.	Is the gene for red hair dominant or recessive to the
		gene for dark hair?
	Ъ.	How can you tell?
		· ·
		is in
		X * 2.
		V 4
3	d (f	sing the symbols R and r for hair coloring and D and for height, indicate for each box (male) and circle emale) on the chart the genotype of the individual ith respect to dwarfism and hair color. Use a queston mark for any gene that cannot be identified.