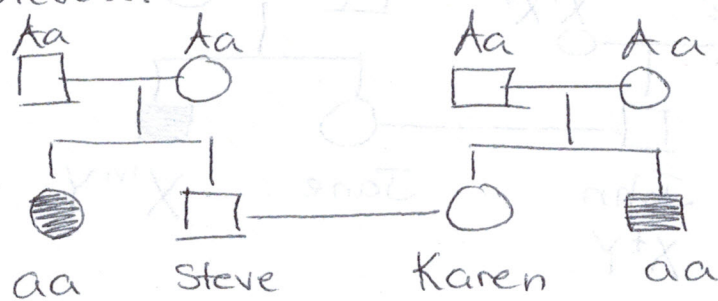


ANSWER KEY - PEDIGREE PROBLEMS:

#1) Karen + Steve...



Both Steve's and Karen's parents are heterozygous.

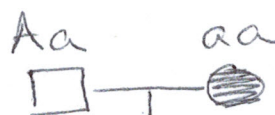
	A	a
A	AA	Aa
a	Aa	aa

Since Steve is not affected with sickle-cell anemia, there is a $\frac{2}{3}$ chance that he is heterozygous. Same for Karen.

$$\left[\frac{2}{3} \text{ chance Steve is } Aa \right] \times \left[\frac{2}{3} \text{ chance that Karen is } Aa \right] \times \left[\frac{1}{4} \text{ chance } aa \text{ child} \right]$$

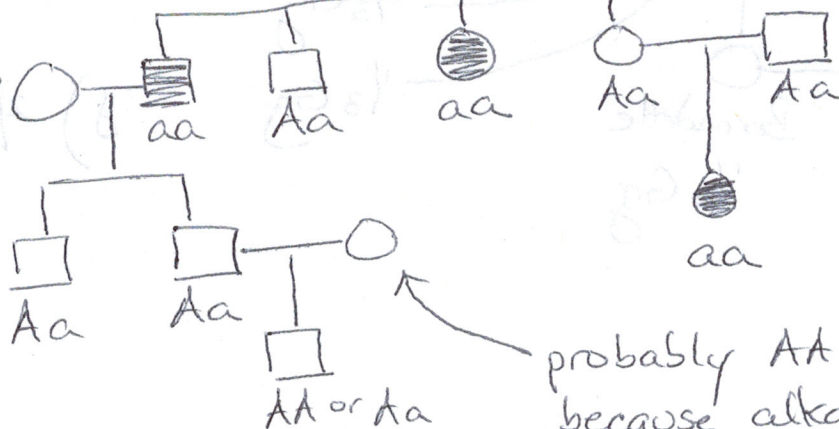
$$\frac{2}{3} \times \frac{2}{3} \times \frac{1}{4} = \frac{1}{9}$$

#2)



probably AA

(because alkaptonuria is rare)



probably AA, because alkaptonuria is rare.