Below is a pedigree chart following the characteristic of lobed ears. Individuals with lobed ears are shaded.



* 1. Is the shaded characteristic dominant or recessive? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. How can you tell?
1. Complete the table using E and e for the dominant and recessive alleles. If it is not possible to be absolutely certain of an individual’s genotype, fill it in with all the possibilities.

|  |  |
| --- | --- |
| Individual | Genotype |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |
| 7 |  |
| 8 |  |
| 9 |  |
| 10 |  |
| 11 |  |
| 12 |  |
| 13 |  |
| 14 |  |

1. Using a punnet square, what is the chance that individuals 8 and 9 will produce a child **with lobed ears**?
2. Using a punnet square, what is the chance that individual 12 will produce a **homozygous** child **without lobed ears** if he mated with a homozygous individual without lobed ears?