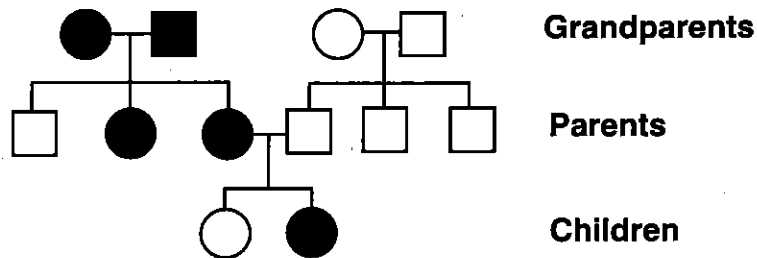
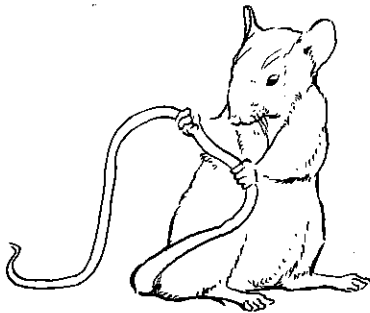


Family Pedigrees

A pedigree is a diagram that traces the occurrence of a trait in a family. In fact, pedigrees look much like family trees. Straight horizontal lines connect individuals that have mated. Vertical lines extend down to their offspring. In pedigrees, circles represent females and squares represent males. If a circle or square is colored in, the individual has the trait being traced.

The pedigree below traces the occurrence of extra long tails in a family of mice.



1. How many of the grandparents in this pedigree have extra long tails? _____
2. Do more males or females have extra long tails in this family? _____
3. How many females do not have extra long tails? _____
4. Do extra long tails run in the mother's family or the father's family? _____
5. In the box provided, draw a pedigree for the family of mice described below to trace the occurrence of pink noses. Note that you will start at the bottom of the chart and work upward.

There are three female and four male mice in a litter. Only two of the females and one of the males have pink noses. Their father has a pink nose but their mother does not. The father has two sisters with pink noses. The mother has three brothers, but none have pink noses. The father's father has a black nose and the father's mother has a pink nose. Both of the mother's parents have gray noses.

6. How many mice in this family have pink noses? _____
7. How many male mice are in this family?

8. How many pink-nosed female mice are in this family? _____

