

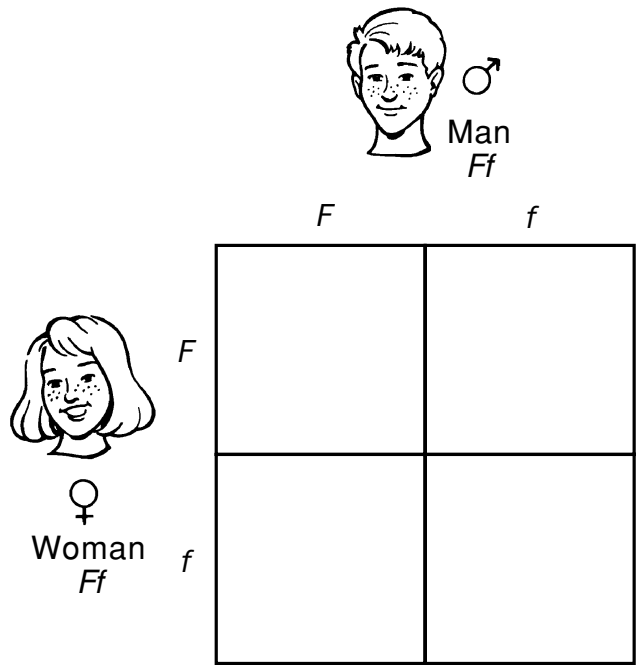
CONCEPT REVIEW

● **Patterns of Inheritance**

Fill in each blank with the word that correctly completes each statement.

1. A chart that shows the possible gene combinations of a cross between a male and a female is called a _____ square.
2. The genetic makeup of an individual is also known as the _____ of the individual. The actual appearance of the individual is known as its _____.
3. The likelihood of an event taking place is known as the _____ of the event.

Fill in the Punnett square below for a cross between a man who is heterozygous for freckles and a woman who is also heterozygous for freckles. Then write descriptions (freckles or no freckles) of the possible children in the boxes of the Punnett square. The allele for freckles (*F*) is dominant over the allele for no freckles (*f*).



Fill in each blank with the word that best completes the sentence.

4. Many genes do not follow the simple patterns of inheritance that Mendel described. In some cases, both genes are fully expressed in the heterozygote. This is called _____. In other cases, two traits appear to blend in what is called _____. Some traits are governed by a number of different alleles, called _____ alleles. For example, the four human _____ groups are controlled by three alleles instead of two.