

Try these questions.

7 Long wing in fruit flies is dominant to short wing. Homozygous long-winged flies were crossed with short-winged flies. The F_1 were allowed to mate amongst themselves and then the F_2 counted. There were 1149 long-winged flies and 379 short-winged flies. What was the genotype and phenotype of the F_1 flies and explain the numbers in the F_2 .

Answer on page 14.

8 The Under Dog normally has very short legs but there is also a recessive mutation that has long legs. A Dog homozygous for short legs was crossed with one with long legs. The F_1 puppies were crossed with Dogs that were heterozygous for short legs. Predict the outcome of these F_1 crosses.

Answer on page 15.

9 Being aggressive is the dominant characteristic of the Belliger Ant and gentle is the recessive. Two aggressive ants were crossed and in the F_1 there were three times more aggressive ants than gentle ants. Explain this.

Answer on page 15.