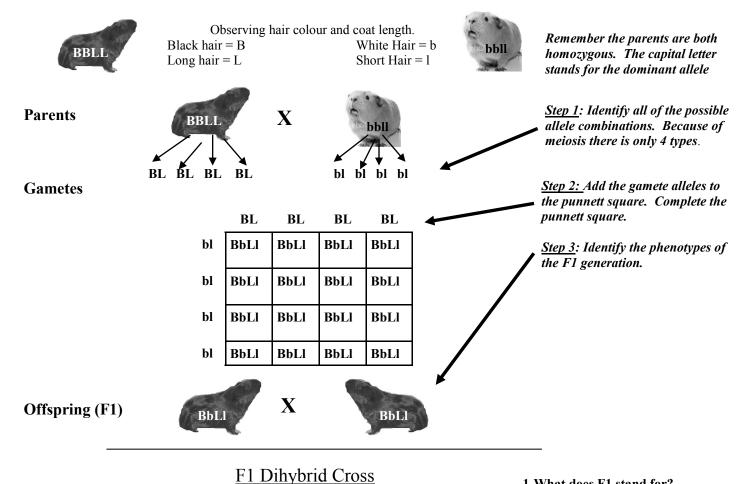
Dihybrid Cross

The study of two genes is called a Dihybrid Cross (as opposed to monohybrid cross. Because of this the variety of gamete genotypes is more than a monohybrid cross. As a result of Mendel's Law of Segregation the genes of offspring are sorted independently and separate from other chromosomes.

Complete the following parental cross. Use the tips to assist your progress.



Parents X **BbLl** BbLl **Gametes Offspring**

- 1. What does F1 stand for?
- 2. Are the offspring homozygous or heterozygous?
- 3. What is the genotype ratio?
- 4. The crossing of the F1 generation produces what generation?
- 5. List the genotypes ratio of this next generation. (F1 x F1)

Parents



X

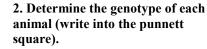


1. What is the phenotype of each parent guinea pig?

Gametes





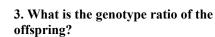












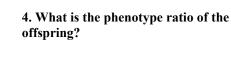












Offspring (F1)

Parents



X



1. What is the phenotype of each parent guinea pig?

Gametes







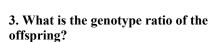
2. Determine the genotype of each animal (write into the punnett square).





























Offspring (F1)