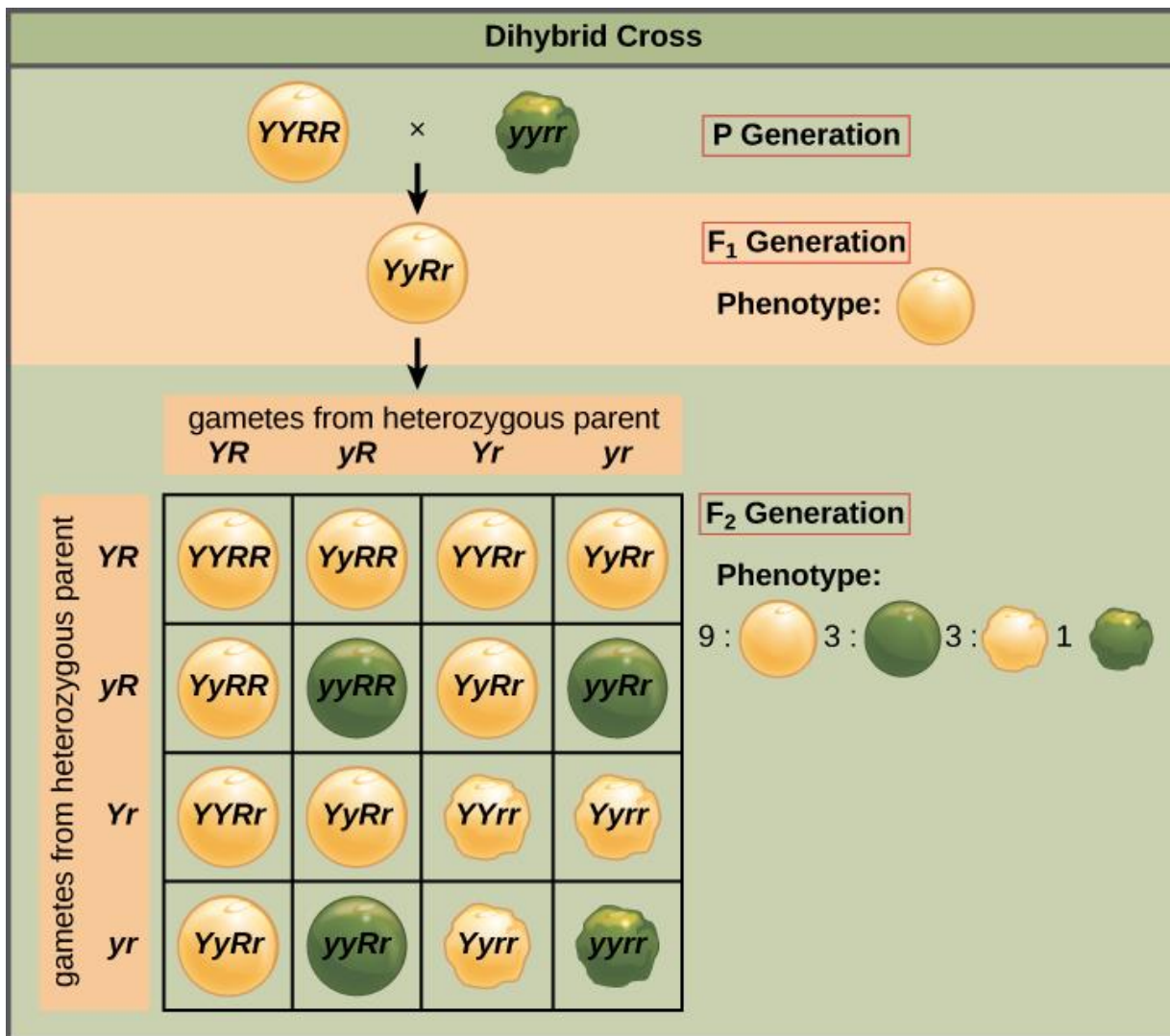


Mendel second law “law of independent assortment”

- The law of independent assortment state that “gametes formation the segregation of one allelic pair is independent of the segregation of the second allelic pair”.
- Each gene which is responsible of a trait is inherited independently from the other genes. For example genes responsible for cats color are different from the genes of tail tall.
- The ratio of offspring was **9:3:3:1**



Exercises

By using bonnet square do a mating between *Drosophila* with gray body color and long wings and another one had ebony body color and dumpy wings. Determine the phenotypes and genotypes of the offspring. Gray and long wings are dominant.