PUNNETT SQUARE

HEREDITY *What each part does*

A Punnett square shows every way the parents' alleles can combine, and the chance of each offspring trait.



Pp

Dominant allele
Shows its trait with one copy. Capital letter (P).

Recessive allele
Shows its trait only with two copies. Lowercase (p).

Homozygous dominant
Two dominant alleles (PP).

Parent plant
One of the two plants crossed; gives one allele to each offspring.



	P	**p**
P	**PP** 	**Pp** 
Pp		
p	**Pp** 	**pp** 

Heterozygous
One dominant and one recessive allele (Pp).

Homozygous recessive
Two recessive alleles (pp).

Phenotype
The trait you can see, like white flowers.

Genotype ratio — **1 PP : 2 Pp : 1 pp**
Boxes with each genotype: 1 PP : 2 Pp : 1 pp.

Phenotype ratio — **3**  **: 1** 
Boxes with each trait: 3 purple : 1 white.