

5 Genetics and Punnett squares – Part 2 —Answers

Answers

Work through these after you have tried the questions yourself.

2.1 the genotype is the set of alleles an organism carries; the phenotype is the visible trait those alleles produce.

2.2 homozygous means two identical alleles; heterozygous means two different alleles.

2.3 3 : 1 (three dominant to one recessive).

2.4 all offspring are Aa (heterozygous), showing the dominant trait.

2.5 both purple parents are heterozygous (Aa), carrying a hidden recessive white allele; when two recessive alleles meet (aa), a white offspring appears.