

Genetics: Punnett Squares Practice Packet Bio

Most genetic traits have a stronger, dominant allele and a weaker, recessive allele. In an individual with a heterozygous genotype, the dominant allele shows up in the offspring and the recessive allele gets covered up and doesn't show; we call this **complete dominance**.

However, some alleles don't completely dominate others. In fact, some heterozygous genotypes allow both alleles to partially show by blending together how they are expressed; this is called **incomplete dominance**. Other heterozygous genotypes allow both alleles to be completely expressed at the same time like spots or stripes; this is called **codominance**. Examples of each are listed below.

Write what each type would be if they were heterozygous.

1. Complete dominance = If a Red (RR) and White flower (rr) were crossbred, resulting in 100% Rr, what phenotype would be seen according to the rules of COMPLETE dominance?
2. Incomplete dominance = If a Red (RR) and White flower (rr) were crossbred, resulting in 100% Rr, what phenotype(s) would be seen according to the rules of IN-complete dominance?
3. Codominance = If a Red (RR) and White flower (WW) were crossbred, resulting in 100% RW, what phenotype(s) would be seen according to the rules of CO-dominance?

Incomplete dominance practice Problems

4-6. Snapdragons are incompletely dominant for color; they have phenotypes red, pink, or white. The red flowers are homozygous dominant, the white flowers are homozygous recessive, and the pink flowers are heterozygous. Give the genotypes for each of the phenotypes, using the letters "R" and "r" for alleles:

- a. Red snapdragon genotype: _____ b. Pink snapdragon genotype: _____ c. White snapdragon genotype: _____

Show genetic crosses between the following snapdragon parents, using the punnett squares provided, and record the genotypic and phenotypic %s below:

a. pink x pink

Genotypic

%: _____

Phenotypic

%: _____

b. red x white

Genotypic

%: _____

Phenotypic

%: _____

c. pink x white

Genotypic

%: _____

Phenotypic

%: _____

Genetics Punnet Squares Practice Packet

AN Whitehead



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