



I'm not robot



Continue



1. Describe Mendel's experiments and known concepts in connection with the experiment (P, F1, F2, cross-pollination, and breeding) 2. Explain the three principles that Mendel developed. 3. Know the relationship between alleles, genes and chromosomes. 4. Use Punnett squares to make genetic crosses. There are different types of crosses. You should know how to do each -- basic crosses involving dominance and recessiveness (Tt x Tt) - Cross involving codominant or incomplete dominance (red, blue and purple flowers) - crosses involving two features - dihybrid crosses (AaBb x aabb) 5. Know basic genetic terms -- genotype/phenotype -- heterozygous/homozygous -- dominant/recessive -- monohybrid/dihybrid - polygenic features, - Herding - Genetics -- allele/gene - genuine breeding, - probability, --separation -- independent assortment --fertilization - more alleles -- gametes -- hybrids (Tt)

Problems with practice: In a particular plant, flowers can be red, white or pink. 1. Is this an example of codominance or incomplete dominance? Show the letters you wanted to use to represent each color. 2. Show the cross between a red flower and a white flower. Enter phenotypic conditions. 3. Show the cross between two pink flowers. Enter phenotypic conditions. 4. Show a cross between a red and a pink flower? What percentage of offspring would you expect to be red? 1. In fruit flies, short wings are a recessive feature. Show the crossing between a normal fly (WW) and a short-winged fly (ww). Enter phenotypic conditions. WW = normal Ww = normal ww = short wings 2. Two heterozygous flies are crossed. Show the cross and list phenotypic key figures. 3. A short-winged fly is crossed with a heterozygous fly. Show the cross and list phenotypic key figures. 4. Also in fruit flies, gray bodies are dominant for black bodies. What phenotypes are expected from this cross: GgWw x ggww 5. If you cross a gray winged fly (GG) that is also short winged (ww) with one that has a black body and short wings, what percentage of offspring do you expect to be gray winged and short winged? Page 2

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