

MONOHYBRID INHERITANCE

Go to the website below and enter the lesson code.

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Instructions

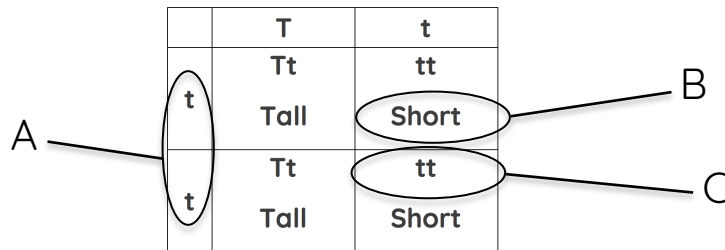
Watch the video, and answer the following questions:

1. Distinguish between phenotype and genotype.
2. a) Distinguish between dominant and recessive alleles. b) How are dominant and recessive alleles symbolized in genetic diagrams?
3. Explain what is meant by the following terms: Heterozygous: Homozygous:

[Questions continue on the next page]



4. Look at the genetic diagram below.



State what each label represents. Choose from the following:

- the genotype genes gametes the phenotype
- a genome chromosomes DNA

A represents:

B represents:

C represents:

5. Draw a genetic diagram showing all possible genotypes, phenotypes and the phenotypic ratio for a cross between two flowers, one has purple petals and the other has yellow petals. Note the following details:

The yellow flower is heterozygous.

The yellow allele is dominant to the purple allele (the purple allele is recessive).

Possible genotypes:

Possible phenotypes:

Phenotypic ratio:

