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Grade-10	Translated by- Mrs.P.H.T.D.Punchihewa, Kg/Dehi/Ruwanwella	Royal College
	abaragamuwa Province/ Weekly School Department of Education,Sabaragamuwa Province/ Weekly	School Department of

## **Inheritance**

- 1. What are the inherited characteristics?
- 2. Write 3 common inherited characteristics among human.
- 3. Write 3 rare inherited characteristics among human.
- 4. Write 2 reasons for selecting garden pea plant to do the experiments about inheritance .
- 5. Write 2 contrasting characteristics considered during a monohybrid cross in garden pea plant.
- 6. Define following terms.
  - i. Monohybrid cross
  - ii. Dominant feature
  - iii. Recessive feature
- 7. Write the genotype of followings.
  - i. Pure breeding tall plants
  - ii. Pure breeding short plants
  - iii. Tall plants with recessive short feature
- 8. Show the results obtain from a monohybrid cross between pure breeding tall feature with pure breeding short feature in a garden pea plant.
- 9. Demonstrate the results obtain in F2 generation of the above mentioned monohybrid cross using the Punnett square given below.

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10. Write the ratios of genotypes and phenotypes that recieved from the above monohybrid cross.

11.Mark correct and incorrect sentences using " $\sqrt{}$ " and "X" symbols respectively.

- i. Syndactyly is a common inherited characteristics . (....)
- ii. Father of genetics is Gregor Mendal. (....)
- iii. In genetics recessive factor is denoted by a capital letter. (....)
- iv. When the two gene factors of a trait are similar it is called homozygous. (....)
- v. Genotype of pure breeding tall plant is Tt. (....)