

# Punnett Square Practice Worksheet

## Mutation Affecting Plant Height:

- A genetic mutation in pea plants prevents normal growth (t), leading to dwarf plants.
- T (Tall) is dominant over t (Mutated dwarf).
- Cross: Heterozygous tall plant (Tt) × Homozygous recessive dwarf plant (tt).

	<b>T</b>	<b>t</b>
<b>t</b>		
<b>t</b>		

## Questions:

- What percentage of offspring will be tall? \_\_\_\_\_
- What percentage will be dwarf? \_\_\_\_\_
- Genotypic ratio: \_\_\_\_\_
- Phenotypic ratio: \_\_\_\_\_

## Reflection Questions:

- How do mutations contribute to genetic variation?
- Why are some mutations harmful while others may be beneficial?
- What is the importance of carriers in recessive mutations?
- How do dominant mutations differ from recessive mutations in inheritance?