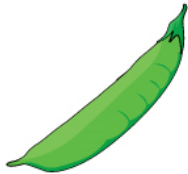
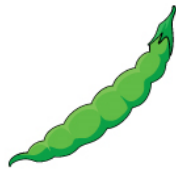


Genetics Practice - Peas, Please!

1. Pea pods come in two shapes: inflated and constricted. Inflated is the dominant allele.



Inflated



Constricted

Complete the chart:

Genotype	Phenotype

2. Show the cross between a homozygous inflated and a homozygous constricted pea plant.

What is the phenotype of the offspring? _____

3. Show the cross between a heterozygous inflated and a homozygous constricted pea plant.

How many offspring are inflated? _____

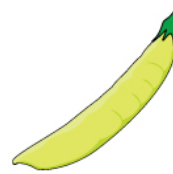
How many offspring are constricted? _____

4. Show the cross between two heterozygous inflated peas.

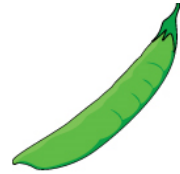
How many offspring are inflated? _____

How many offspring are constricted? _____

5. Pea pods come in two colors: yellow and green. Green is the dominant allele.



Yellow



Green

Complete the chart:

Genotype	Phenotype

6. Show the cross between two yellow pod plants.

What is the phenotype of the offspring? _____

7. Show the cross between a heterozygous green pod plant and a yellow pod plant.

How many offspring are yellow pods? _____

How many offspring are green pods? _____

8. In pea plants, axial flowers are dominant to terminal flowers.

A heterozygous axial flowered plant is crossed with one that has terminal flowers.

How many offspring have axial flowers? _____

How many offspring have terminal flowers? _____

Genetics Practice - Peas, Please!

1. Pea plants can have either white or purple flowers, where white is recessive.



Complete the chart:

Genotype	Phenotype

2. Show the cross between a homozygous purple flower plant and a homozygous white flower pea plant.

What is the phenotype of the offspring? _____

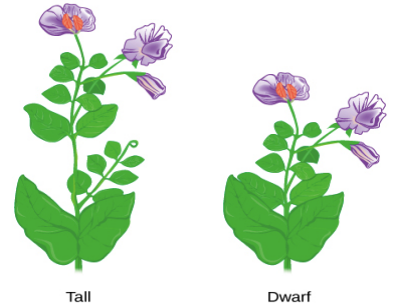
3. Show the cross between a heterozygous purple and a homozygous white pea plant.

How many offspring are purple? _____
How many offspring are white? _____

4. Show the cross between two heterozygous purple flower pea plants

How many offspring are purple? _____
How many offspring are white? _____

5. Pea plants can either be tall or short (dwarf), where the short allele is recessive.



Complete the chart:

Genotype	Phenotype

6. Show the cross between two dwarf plants.

What is the phenotype of the offspring? _____

7. Show the cross between a heterozygous tall plant and a short plant.

How many offspring are tall? _____
How many offspring are short? _____

8. Show the cross between two heterozygous tall plants.

How many offspring are tall? _____
How many offspring are short? _____