**Worksheet\_2**

1. For each genotype below, indicate whether it is heterozygous **(He)** or homozygous **(Ho)**

AA \_\_\_\_\_ Ee \_\_\_\_\_ Ii \_\_\_\_\_ Mm \_\_\_\_\_

Bb \_\_\_\_\_ ff \_\_\_\_\_ Jj \_\_\_\_\_ nn \_\_\_\_\_

Cc \_\_\_\_\_ GG \_\_\_\_\_ kk \_\_\_\_ OO \_\_\_\_\_

Dd \_\_\_\_\_ HH \_\_\_\_\_ Ll \_\_\_\_ Pp \_\_\_\_\_

2. For each of the **genotypes** below determine what **phenotypes** would be possible.

*Purple flowers are dominant to white Brown eyes are dominant to blue*

PP \_\_\_\_\_\_\_\_\_\_\_\_\_ BB \_\_\_\_\_\_\_\_\_\_\_

Pp \_\_\_\_\_\_\_\_\_\_\_\_\_ Bb \_\_\_\_\_\_\_\_\_\_\_\_

pp \_\_\_\_\_\_\_\_\_\_\_\_\_\_ bb \_\_\_\_\_\_\_\_\_\_\_\_\_

*Round seeds are dominant to wrinkled Bobtails are recessive (to long tails)*

RR \_\_\_\_\_\_\_\_\_\_\_\_\_ TT \_\_\_\_\_\_\_\_\_\_\_\_

Rr \_\_\_\_\_\_\_\_\_\_\_\_\_ Tt \_\_\_\_\_\_\_\_\_\_\_\_

rr \_\_\_\_\_\_\_\_\_\_\_\_\_ tt \_\_\_\_\_\_\_\_\_\_\_\_\_

3. A homozygous round seeded plant is crossed with a homozygous wrinkled seeded plant. What are the genotypes of the parents?

\_\_\_\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_\_\_\_

4. Set up the Punnett squares for each of the crosses listed below. Brawn eyes are dominant to blue eyes.

**Bb x bb Bb x Bb**

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**BB x Bb BB x Bb**

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<https://www.biologycorner.com/worksheets/genetics_practice.html>

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