

1. What are the phenotypes for each squash that have the following phenotypes?

a) Wwdd \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b) wwDD \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a) wwdd \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b) WwDd \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. A white heterozygous colored, sphere-shaped squash is crossed with yellow colored, disk-shaped heterozygous squash. Complete the Punnett square to determine the genotypes and phenotypic ratios of the offspring.

**Dihybrid Crosses – Crosses Involving 2 Traits**

In summer squash, color and shape are linked. White squash (W) is dominant over yellow (w) while disk-shaped squash (D) is dominant over sphere-shaped squash (d)

How many are white and disk-shaped? \_\_\_\_\_\_\_\_

How many are white and round-shaped? \_\_\_\_\_\_\_\_

How many are yellow and disk-shaped? \_\_\_\_\_\_\_\_

How many are yellow and disk-shaped? \_\_\_\_\_\_\_\_

Cut along dotted line

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a) wwdd \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b) WwDd \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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How many are white and round-shaped? \_\_\_\_\_\_\_\_

How many are yellow and disk-shaped? \_\_\_\_\_\_\_\_

How many are yellow and disk-shaped? \_\_\_\_\_\_\_\_