

Name: \_\_\_\_\_  
Mr. Willis  
Biology: \_\_\_\_\_  
Date: \_\_\_\_\_

Unit VII  
Biology – Genetics  
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# VII

## Punnett Square Practice Problems

1. In pea plants, spherical seeds (S) are dominant to dented seeds (s). In a cross of two plants that are heterozygous for the seed shape trait, what percentage of the offspring should have spherical seeds? Complete the Punnett Square below to find out.

Both Parents' phenotype \_\_\_\_\_

Parent 1 genotype \_\_\_\_\_

Parent 2 genotype \_\_\_\_\_


Percentage of offspring with spherical seeds \_\_\_\_\_

2. In dogs, there is a hereditary deafness caused by a recessive gene, (d). A deaf female is crossed with a homozygous hearing male. Complete the Punnett Square below to determine the offspring's genotypes.

Mother's genotype \_\_\_\_\_

Father's genotype \_\_\_\_\_


Offspring's genotypes? \_\_\_\_\_

3. If two hearing dogs were both Dd, what kind of gametes could each produce?

Gametes \_\_\_\_\_ and \_\_\_\_\_


Ratio for phenotype \_\_\_\_\_