Biology 1	Exercise	9
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- 1. Perform Punnett Squares for the following six crosses. Indicate the genotypic and phenotypic ratios from each of the crosses
- a. Two heterozygous purple-flowered peas (Pp X Pp)
- b. One homozygous dominant and one homozygous recessive purple-flowered pea (PP X pp)
- c. Two homozygous dominant purple-flowered peas (PP X PP)
- d. Two homozygous recessive white-flowered peas (pp X pp)
- e. One homozygous dominant and one heterozygous purple-flowered pea
- f. One homozygous recessive and one heterozygous purple-flowered pea

- 2. Determine the genotype of the parents and the offspring in each of the following. (It may not be possible to determine the genotypes of all the parents in each case.)
- a. White-flowered pea crossed with a white-flowered pea produces only white-flowered offspring.
- b. Purple-flowered pea crossed with a white-flowered pea produces only purple-flowered offspring.
- c. Purple-flowered pea crossed with a white-flowered pea produces both purple-flowered and white-flowered offspring.
- d. Purple-flowered pea crossed with a purple-flowered pea produces both purple-flowered and white-flowered offspring.
- e. Purple-flowered pea crossed with a purple-flowered pea produces only purple-flowered offspring.