Name:	Data:
Name:	Date:

PUNNETT SQUARE PRACTICE

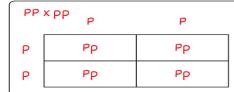
Draw a Punnett Square to show a cross between a true-breeding (homozygous) purple pea plant with a true-breeding (homozygous) white pea plant. Describe the genotypes and phenotypes of the offspring.

РР x рр		Р	P
PP x pGenotypes of offspring: 100% of the offspring are heterozygous, Pp Phenotypes of offspring:	Ρ	РР	РР
	Р	РР	РР
100% of the offspring are purple			

Which plants are the P generation? Which ones are F,?

P generation is the parents: PP and pp. The F1 generation is the offspring: Pp.

Use a Punnett square to show a cross between two plants that were produced in #1. List the genotypes and phenotypes of each F; offspring.



1 out of 2 or 50% Pp, heterozygous, purple 1 out of 4 or 25% pp, homozygous recessive, white

I out of 4 or 25% PP, homozygous dominant, purple

Punnett Square results are often stated in terms of fractions or percentages, but sometimes we use the terms genotypic ratio and phenotypic ratio to describe the results of a cross. For example, the genotypic ratio of the cross in #3 ic.

1 PP: 2Pp: 1 pp

or you can say 1 homozygous dominant:2 heterozygous : homozygous recessive or just 1:2:1

The phenotypic ratio is 3 purple: 1 white or you can say 3 dominant: recessive or just 3:1