

Punnett Square Worksheet Instructions:

1. Determine the letter you will use for a dominant allele and a recessive allele if needed.
2. Cross the parents in the Punnett square – with the cross you will get the genotypes and phenotypes of the 4 offspring.
3. Determine the % of genotypes.
4. Determine the % of phenotypes.

Key: Bb Eye color

Parents: BB Homozygous Dominant Brown, bb Homozygous Recessive Blue

Offspring: Bb Heterozygous

Genotype: 100% are Bb Heterozygous

Phenotype: 100% have brown eyes.

Genotype Ratio: 0:4:0 BB:Bb:bb

Phenotype Ratio: 4:0 Brown:Blue

	B	B
b	Bb	Bb
b	Bb	Bb

Key: Bb Eye Color

Parents: Bb Heterozygous Brown, Bb Heterozygous Brown.

Offspring: One BB Homozygous Dominant, Two Bb Heterozygous, One bb Homozygous Recessive

Genotype: 25% BB Homozygous Dominant, 50% Bb Heterozygous, 25% bb Homozygous Recessive

Phenotype: 75% have Brown Eyes, 25% Blue Eyes.

Genotype Ratio: 1:2:1

Phenotype Ratio: 3:1

	B	b
B	BB	Bb
b	Bb	bb