

## Punnett Square Practice

1. The **B** allele represents hamsters with brown fur and the **b** allele represents hamsters with white fur. Do a monohybrid cross for:
  - c. two homozygous brown hamsters
  - d. a homozygous brown hamster and a white hamster
  - e. a heterozygous brown hamster and a white hamster
  - f. two heterozygous brown hamsters.
2. The **A** allele represents arched leaves and the **a** allele represents flat leaves. The **B** allele represents blue flowers and the **b** allele represents white flowers. List all the possible combinations of alleles for each genotype below. Each combination should have one allele for leaf shape and one allele for flower color.

	Possible Alleles
AA BB	
AA Bb	
AA bb	
Aa BB	
Aa Bb	
Aa bb	
aa BB	
aa Bb	
aa bb	

3. Do a dihybrid cross for:
  - g. Plant 1: has arched leaves (homozygous) and white flowers  
Plant 2: has arched leaves (heterozygous) and blue flowers (heterozygous)
  - h. Plant 1: has flat leaves and blue flowers (heterozygous)  
Plant 2: has arched leaves (heterozygous) and blue flowers (heterozygous)

