

**Incomplete Dominance and Co-Dominance
Practice Problems**



Incomplete Dominance

1. Coat color in mice is incompletely dominant. Yellow and white-colored mice are homozygous, while cream-colored mice are heterozygous. If two cream-colored mice mate, what phenotypic ratio can we expect of their offspring? Show the Punnett Square.

	Y	W	
Y	YY	YW	1:2:1
W	YW	WW	

2. In radishes, red and white are pure-breeding colors, while hybrids are purple. If a red radish is crossed with a white radish, what will be the phenotype of the F₂ generation (assuming the F₁ generation self-pollinates)? Show the Punnett Square.

	R	R		
W	RW	RW	25% Red 50% Purple 25% White	
W	RW	RW		

3. In snapdragons, flower color is controlled by incomplete dominance. The two alleles are red (R) and white (W). The heterozygous genotype is expressed as pink.

- a) What is the phenotype of a plant with the genotype RR? Red
 b) What is the phenotype of a plant with the genotype WW? White
 c) What is the phenotype of a plant with the genotype RW? Pink

4. A pink-flowered plant is crossed with a white-flowered plant. Show the Punnett Square. What is the probability of producing a pink-flowered plant? 50 %

	R	W
W	RW	WW
W	RW	WW

5. What cross will produce the most pink-flowered plants? Show a punnett square to support your answer.

RR * WW
 100% are RW (pink flowered)

	R	R
W	RW	RW
W	RW	RW

6. In Andalusian fowls, black individuals (B) and white individuals (W) are homozygous. A homozygous black bird is crossed with a homozygous white bird. The offspring are all bluish-gray. Show the cross as well as the genotypes and phenotypes of the parents and offspring.

	B	B
W	BW	BW
W	BW	BW

Parent's: BB (black) * WW (white)
 Offspring: BW (gray)

7. What are the genotypic and phenotypic ratios if a black individual is crossed with a bluish-gray individual? Show the Punnett Square.

	B	B
B	BB	BB
W	BW	BW

Genotype: 2:2:0
 Phenotype: 2:2:0

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