



Monohybrid Cross Worksheet 4: Multiple Alleles

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Introduction

1. Human blood types are determined by three different alleles known as I^A , I^B , and I , of which each has for type A, type B, and type O, respectively. A summary of blood type phenotypes and corresponding genotypes are denoted in Table 1 below.

Phenotype	Genotype
Type A	$I^A I^A$ or $I^A I$
Type B	$I^B I^B$ or $I^B I$
Type AB	$I^A I^B$
Type O	ii

a. Determine if the following are examples of complete dominance, incomplete dominance, or codominance:

- Type AB: codominance
- Homozygous type A: complete dominance
- Type O: complete dominance
- Heterozygous type B: complete dominance
- Heterozygous type A: complete dominance

Monohybrid cross problems

2. If a mother and father with heterozygous type B and homozygous type A blood types, respectively, have children, determine the following:

	I^A	I^A
I^B	$I^A I^B$	$I^A I^B$
i	$I^A i$	$I^A i$

- What are the genotypes of the parents? $I^A I^A$ & $I^B i$
- What are the possible F₁ phenotypes? Type AB and A.

3. Determine the following probabilities of F₂ having:

- Type O blood: 0%
- Type AB blood: 50%
- Type B blood: 0%
- Type A blood: 50%



2. If a mother and father with type O and type AB blood types, respectively, have children, determine the following:

- F₁ genotypes: $I^A i$ & $I^B i$
- F₁ genotypes: $I^A i$ and $I^B i$
- F₁ phenotypes: Type A and Type B
- Probability of F₂ having type O blood: 0%
- Probability of F₂ having type AB blood: 0%
- Probability of F₂ having type B homozygous blood: 0%
- Probability of F₂ having type A heterozygous blood: 50%
- Probability of F₂ having type B heterozygous blood: 50%
- Probability of F₂ having type A homozygous blood: 0%

	I^A	I^B
i	$I^A i$	$I^B i$
i	$I^A i$	$I^B i$

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RS Peters

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