

Crosses Involving Multiple Alleles

In previous activities, every gene was considered to have only two possible alleles. For example, the alleles of the gene for plant height in peas are either tall or short, and the alleles of the gene for fruit color in squash are either yellow or white. However, there are genes for which more than two different alleles exist. When this is the case the alleles are referred to as multiple alleles.

As you know, a diploid individual can carry only two alleles for any gene. This is because for each gene one allele is carried on each of the two chromosomes that constitute a pair of homologous chromosomes. But in a population of individuals, more than two alleles of a gene can exist. For example, one individual may have alleles 1 and 2 of a particular gene while another individual may have alleles 2 and 3 of that same gene. The best known example of multiple alleles involves the gene for blood type in humans. This gene has three different alleles and is located on chromosome 9, two copies of which exist in all human body cells. The alleles of this gene are designated as follows:

- I^A —codes for type A blood
- I^B —codes for type B blood
- i —codes for type O blood

I^A and I^B are each dominant over i , but are not dominant over each other. The possible genotypes and corresponding blood types are as follows:

genotype	phenotype (blood type)
ii	O
$I^A I^A$	A
$I^A i$	A
$I^B I^B$	B
$I^B i$	B
$I^A I^B$	AB

SAMPLE PROBLEM

A woman with type A blood whose father was type O married a man with type AB blood. What will be the possible genotypes and phenotypes of their children?

Step 1 Determine the genotypes of the parents.

Type A woman with type O father: $I^A i$

Type AB man: $I^A I^B$

$I^A i \times I^A I^B$

Step 2 Determine the gamete genotypes produced by each parent.

$I^A i \rightarrow I^A, i$

$I^A I^B \rightarrow I^A, I^B$

Step 3 Set up a Punnett square using the gamete genotypes.

	I^A	i
I^A		
I^B		

Genetics Problem Solving Crosses Involving One Trait Answers

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