

Multiple Allele Notes:

What happens if there are 3 possible alleles for a trait? How do they combine to make a genotype and phenotype?

Blood Type alleles = A, B, O

If you receive this from your parents:

You will be this blood type:

OO

Type O

AB

Type AB

AA or AO

Type A

BB or BO

Type B

A and B are both dominant so they will both show if you get one of each, giving you AB blood.

O is recessive and will be hidden by A or B if you get AO or BO, so Type A and Type B blood have 2 possibilities.

Working a problem:

Mom is homozygous A (she's AA) and dad is heterozygous B (he's BO). What are the possible offspring blood types?

	A	A
B	AB	AB
O	AO	AO

Offspring are Type AB and Type A

Can a Type AA mom and Type BO dad have a Type O baby?

	A	A
B	AB	AB
O	AO	AO

No, not possible!

Work the problems on the worksheet. Only fill in the first column (Possible Genotypes) on the table for Question #1.