Name		Date	Period
Genetics Practice Problems #5 - ABO Multiple Allele Worksheet 1			
Directions: Given the alleles, genotypes and phenotypes for human blood typing ABO, solve the following multiple allele problems. Recall that A and B alleles are co-dominant and O is recessive. A = B > O. When figuring out problems don't forget that there are two ways to observe the Blood Type A and Blood Type B phenotypes			
	Phenotypes	Genotypes	
	Α	I ^A I ^A , I ^A i ^O	
	В	$\mathbf{I}^{B}\mathbf{I}^{B}$, $\mathbf{I}^{B}i^{O}$	
	AB	I_AI_B	
	0	i°i°	
1. What is the expected genotypic ratio among children born to a mother having the genotype ${f I}^{A_i^O}$ and a father with the phenotype AB?			
2. One parent has the bloo they produce children with		r blood type B. What	are the genotypes of the parents if
3. One parent has the bloo 1/2 the offspring are AB a		r blood type B. What	are the genotypes of the parents if
4. One parent has the block if the offspring produce the			t are the genotypes of the parents 4 B, and 1/4 <i>0</i> ?