Codominance		

Name				

Human blood types are determined by genes that follow the CODOMINANCE pattern of inheritance. There are two dominant alleles (I^A and I^B) and one recessive allele (i).

Blood Type (Phenotype)	Genotype	Can donate blood to:	Can receive blood from:
О	ii	A,B,AB and O (universal donor)	О
AB	I ^A I ^B	O, AB	A,B,AB and O (universal receiver)
A	I ^A I ^A or I ^A i	AB, A	O,A
В	I ^B I ^B or I ^A i	AB,B	О,В

В		I^BI^B or I^Ai	AB,B	О,В			
1.	Write to a. b. c. d. e. f. g.	Homozygous Heterozygous Type O Type "A" and Type "AB" Blood can be	each person based on the description: for the "B" allele for the "A" allele had a type "O" parent donated to anybody blood from a type "O" donor				
2.	Pretend that Brad Pitt is homozygous for the type B allele, and Angelina Jolie is type "O." What are all the possible blood types of their baby?						
3.			showing all the possible blood types fight 'AB' father	or the offspring produced by a type			
4.	Mrs. Clink is type "A" and Mr. Clink is type "O." They have three children named Matthew, Mark, and Luke. Mark is type "O," Matthew is type "A," and Luke is type "AB." Based on this information: a. Mr. Clink must have the genotype b. Mrs. Clink must have the genotype because has blood type c. Luke cannot be the child of these parents because neither parent has the allele						
5.	Two parents think their baby was switched at the hospital. Its 1968, so DNA fingerprinting technology does not exist yet. The mother has blood type "O," the father has blood type "AB," and the baby has blood type "B." a. Mother's genotype: b. Father's genotype: c. Baby's genotype: d. Punnett square showing all possible genotypes for children produced by this couple						

e. Was the baby switched?