Codominance Worksheet (Blood types)

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:
0	ii	A,B,AB and O (universal donor)	0
АВ	l ^A l ^B	O, AB	A,B,AB and O (universal receiver)
А	I ^A I ^A or I ^A i	АВ, А	O,A
В	I ^B I ^B or I ^B i	AB,B	O,B

В		l ^B l ^B or l ^B i	AB,B	O,B				
1. \	a. Homozygous for the "B" allele b. Heterozygous for the "A" allele c. Type O d. Type "A" and had a type "O" parent e. Type "AB" f. Blood can be donated to anybody g. Can only get blood from a type "O" donor							
	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? (show your work)							
			uare showing all the possible a Type "AB" father	blood types for the offspring p	produced by a type			
	and Lu a. b.	ike. Mark is Mr. Clink m Mrs. Clink n	type "O," Matthew is type "A," ust have the genotype nust have the genotype	They have three children nam " and Luke is type "AB." Based because has ts because neither parent has	d on this information: s blood type			