

Blood Type Codominance Practice Problems

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

1. Fill in the following chart with the missing information.

Blood Type (Phenotype)	Possible Genotype(s)	Can donate blood to:	Can receive blood from:
O	ii	A, B, AB, O ("universal donor")	O
AB	$I^A I^B$	AB	A, B, AB, O ("universal recipient")
A	$I^A I^A, I^A i$	AB, A	O, A
B	$I^B I^B, I^B i$	AB, B	O, B

2. Write the **genotype** for each person, based on the given description.

Homozygous for Type B Blood ii Heterozygous for Type A Blood $I^A i$

Type O Blood ii Type A Blood and had a parent with Type O Blood $I^A i$

Type AB Blood $I^A I^B$ Blood can be given to any individual ii

Heterozygous for Type B Blood $I^B i$ Homozygous for Type A Blood $I^A I^A$

Can only receive blood from a Type O donor ii

3. A father is heterozygous for his type B blood (BO) and the mother has type O blood.

- a. What are the **possible blood types** of the babies born from this couple? **Type B and Type O**

	I^B	i
i	$I^B i$	ii
i	$I^B i$	ii

4. A father has type AB blood and the mother has type O blood.

- a. What percentage of their offspring would you expect to have...

Type A Blood 50%

Type B Blood 50%

Type AB Blood 0%

Type O Blood 0%

I^A	I^A	I^B
i	$I^A i$	$I^B i$
i	$I^A i$	$I^B i$

Genetics Unit Codominance Blood Types Answers

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