## **Blood Type Genetics**

 $I_A$ ,  $I_B$ , and i code for different proteins on the surface of red blood cells. The i allele is recessive.  $I_A$  and  $I_B$  are dominant to O.  $I_A$  and  $I_B$  are codominant to each other.

Fill in the table below and then answer the questions that follow

Blood Type (Phenotype)	Genotype
Homozygous for type A	IAIA
Heterozygous for type A	Ini
Homozygous for type B	IBIB
Heterozygous for type B	IBi
Type AB	IATB
Type O	

1. Nadine's mom has type	AB blood and her dad	is heterozygous for type B	blood. What is the probability
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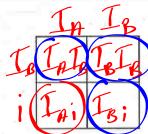
that Nadine has

a. type A blood 25%

b. type B blood 50%.

c. type AB blood 25%.

d. type O blood



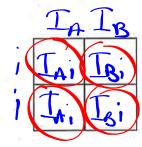
2. Tricia's mom has type AB blood and her dad has type O blood. What is the probability that Tricia has

a. type A blood SO.

b. type B blood 50 /

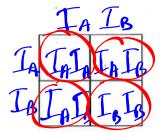
c. type AB blood 0 /

d. type O blood



3.	Aasif's mom	and dad bo	oth have type A	AB blood.	What is the	probability	that Aasif has

- a. type A blood 25 /
- b. type B blood 25%
- c. type AB blood \_\_\_\_\_\_\_\_
- d. type O blood



4.Stephen's	mom	and dad a	re both	heterozygous	for type A blood.	What is the	probability	that Stephen
has			_	1,		- 11111		- 4

- a. type A blood 75%
- b. type B blood 0/.
- d. type O blood 25 /



5. Wendy's mom has type O blood and her dad is homozygous for type A blood. What is the probability that Wendy has

- a. type A blood 100
- c. type AB blood 6.
- d. type O blood \_\_\_\_\_ /.

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