Biology A	1
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Name:	Per		
	Date:		

## **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	-
Heterozygous for type A	E E E
Homozygous for type B	
Heterozygous for type B	¥
Type AB	
Type O	

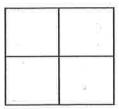
1.	Nadine's mom has t	ype AB b	lood and her	dad is heter	ozygous fo	or type B	blood.	What is	the probabilit	y
	that Nadine has	2.0								
		•								

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

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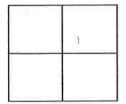
2.Tricia's mom has type AB blood and her dad has type O blood. What is the probability that Tricia has

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



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

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



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4.Stephen	's mom and dad are bot	h heterozygous for type A blood. What is the	probability that Stephen
	type A blood		en Profes
b.	type B blood	- 47 m 1 2-15 m 20 25 - 0 25 c	7.0
c.	type AB blood	_ X A	0.00
d.	type O blood		West areas
v		e	
5 Wendy	s mom has type O blood	d and her dad is homozygous for type A blood	What is the probability
that W	endy has	a and not dad is nomozygous for type A blood	. What is the probability
a.	type A blood		Amerija To oar ett das i'r
b.	type B blood		
c.	type AB blood		्राप्ति । स्ट्रांग्रही
d.	type O blood	X .	£. 10

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