

The Blue-Eyed Wonder Case

Robert was born with striking blue eyes and fair skin. His mother is **Sara**, a very wealthy Filipina whose parents are long-time **DPWH contractors**. Three men are within the window of conception:

1. **Atty. Rafael** – Sara's **legal husband** (a Filipino lawyer who travels abroad frequently).
2. **Marco** – Sara's **office mate**.
3. **Ely** – a **famous singer** who socializes within the family's circle.

At birth, Atty. Rafael notices the child's European features and requests testing. In order to quench the neighbors' lusty gossip as well as his own peace of mind, Atty. Rafael, through careful planning and connections, was able to get the blood types and DNA samples from Marco and Ely. Below are the results of the **ABO blood typing** and **DNA (13 STR loci)** from Sara, Robert, Atty. Rafael, Marco, and Ely.

Person	ABO Type
Mother – Sara	A
Robert	AB
PF1 – Atty. Rafael (Legal Husband)	O
PF2 – Marco (Office Mate)	B
PF3 – Ely (Famous Singer)	AB

Locus	Robert	Sara	PF1 – Atty. Rafael	PF2 – Marco	PF3 – Ely	Allele Frequencies (Observed)	Paternity Index
D3S1358	15,16	15,18	14,16	16,17	14,15	14:0.18; 15:0.29; 16:0.27; 17:0.12; 18:0.14	—
vWA	16,18	14,16	15,18	16,18	14,15	14:0.20; 15:0.21; 16:0.28; 18:0.19	—
FGA	21,24	24,25	21,24	21,23	22,24	20:0.10; 21:0.17; 22:0.15; 23:0.12; 24:0.24; 25:0.11	—
D8S1179	12,14	10,12	12,14	16,15	13,14	10:0.09; 12:0.26; 13:0.19; 14:0.23; 15:0.11	—
D21S11	29,32	30,32	29,31	29,30	28,31	28:0.07; 29:0.18; 30:0.15; 31:0.16; 32:0.20	—
D18S51	13,15	12,13	14,15	12,17	13,14	12:0.12; 13:0.22; 14:0.19; 15:0.21; 17:0.08	—
D5S818	11,12	11,12	10,12	12,13	10,11	10:0.13; 11:0.28; 12:0.31; 13:0.07	—

D13S317	8,11	8,11	8,12	9,11	8,10	8:0.30; 9:0.10; 10:0.12; 11:0.27; 12:0.09	—
D7S820	9,10	8,10	8,9	9,11	8,10	8:0.24; 9:0.26; 10:0.25; 11:0.08	—
TH01	6,9.3	6,7	7,9.3	6,9.3	6,7	6:0.33; 7:0.20; 9.3:0.21	—
TPOX	8,11	8,11	8,9	8,11	11,12	8:0.32; 9:0.10; 11:0.29; 12:0.07	—
CSF1PO	10,12	10,11	12,12	11,12	10,12	10:0.25; 11:0.18; 12:0.31	—
D16S539	11,12	11,11	9,12	12,13	11,12	9:0.09; 11:0.29; 12:0.30; 13:0.08	—

1. Who is/are the possible fathers based on the blood types? Why?
2. Who is/are excluded? why?
3. Encircle the obligate paternal allele in the column of Robert's DNA profile.
4. Encircle the obligate alleles present in each putative father's profile.
 - a. What does it mean if the putative father does not have all or some of the obligate paternal allele? Why?
 - b. What does it mean if a putative father has all the obligate paternal allele? Why?
5. Compute the Paternity Index (PI).
 - a. How is this computed?
 - b. What does the PI signify?
6. Compute the Combined Paternity Index (CPI).
 - a. How is this computed?
 - b. What does CPI signify?
7. Derive the Probability of Paternity and convert it into a percentage format.

- a. How is this computed?
 - b. What does PoP signify?
8. Prepare a Legal Memorandum based on the facts and results of the paternity test.