



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

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COIMBATORE-641 035, TAMIL NADU

DEPARTMENT OF MATHEMATICS

PUZZLE

Leo, Dolly, and Tommy are related to each other.

- i. Among the three are Leo's legal spouse, Dolly's sibling, and Tommy's sister-in-law.
- ii. Leo's legal spouse and Dolly's sibling are of the same sex.

Who do you know is a married man?

Solution & Explanation

If Leo's spouse is Dolly, then Dolly's sibling cannot be Leo and must be Tommy; then Tommy's sister-in-law cannot be Dolly and must be Leo. If Leo's spouse is Tommy, then Tommy's sister-in-law cannot be Leo and must be Dolly; then Dolly's sibling cannot be Leo and must be Dolly; then Dolly's sibling cannot be Tommy and must be Leo. Then, in any case, all three of Leo, Dolly, and Tommy are accounted for and Tommy's sister-in-law is a female. So, from [2], Leo's spouse and Dolly's sibling are both males.

In summary:

	Leo's spouse	Dolly's sibling	Tommy's Sister in law
	Male	Male	Female
Case I	Dolly	Tommy	Leo
Case II	Tommy	Leo	Dolly

Case II is eliminated because Leo and Tommy cannot both be males and married to each other. So Case I is the correct one and you know Dolly is a married man. Leo is a married woman, Dolly and Tommy are brothers, and Leo is Tommy's sister-in-law.