## QUESTLINE-5/XOR-RIDDLE $N \times 0R = 23 = 45$ $N \oplus 23 = 45$ $(N \oplus 23) \oplus 23 = 45 \oplus 23$ $N \oplus (23 \oplus 23) = 45 \oplus 23$ (commutative property) $\Rightarrow N = 45 \oplus 23$ ( $\therefore 23 \oplus 23 = 0$ ) & $(N \oplus 0 = N)$ $45 \Rightarrow b mary$ $2 \Rightarrow b mary$

45 (101101)	<del>(D)</del>	23 (010111)	II	RESULT (N)
1	<b>(</b>	0	=	1
0	<b>(</b>	1	=	1
Y	⊕	0	=	(
1	<b>⊕</b>	ſ	=	0
0	<b>⊕</b>	t	=	1
	<b>⊕</b>	1	11	0

$$111010_{2} \rightarrow deamal \Rightarrow 1x2^{5} + 1x2^{4} + 1x2^{3} + 0x2^{3} + 1x2 + 0x2^{0}$$

$$= 32 + 16 + 8 + 0 + 2 + 0$$

$$= 58_{10}$$