Reasoning

Blood Relation (Basic)

Type/Concept	Explanation / Examples
Basic Relations	- Father's son = Brother- Mother's daughter = Sister- Father's brother = Uncle
Maternal Relations	- Mother's brother = Maternal Uncle- Mother's sister = Maternal Aunt
Paternal Relations	- Father's sister = Paternal Aunt- Father's father = Grandfather
In-law Relations	- Husband's mother = Mother-in-law- Wife's brother = Brother-in-law
Grand Relations	- Son's son = Grandson- Daughter's daughter = Granddaughter
Cousin Relation	- Uncle's or Aunt's children = Cousins
Gender-based clues	Identify male/female from keywords: he, she, wife, husband, etc.
'How is A related to B?'	Move from A to B using given relations; track gender if needed to finalize relation.
Key terms and inference	- 'Only son of father of X' = X's brother- 'Wife of only son of A' = A's daughter-in-law
Use of family tree diagram	Helps visualize complex statements. Use squares (♂) for males, circles (♀) for females.
Use of generations	Same level = siblings, cousins1 above = parents/uncles2 above = grandparents
Common traps	- Don't assume gender unless stated- Carefully read nested relations (e.g., father of wife of...)

Blood Relation (Photograph Based)

Concept	Explanation	Example (SSC-style)	Solution
"This is a photograph of X"	The person in the question is looking at someone else's photo. You have to find how the person is related to X or vice versa.	Q. Pointing to a photograph, a man said, "I have no brothers and sisters but that man's father is my father's son." Who is the man in the photo?	◆ "My father's son" = Myself (since he has no brothers)◆ So, "that man's father is me"◆ So, "that man is my son"✅ **Answer: Son**
"She is the daughter of the only son of my father"	Break into levels: "only son of my father" = Myself → "daughter of me" → **My daughter**	Q. Pointing to a photograph, a woman says, "She is the daughter of the only son of my father." How is the girl in the photograph related to the woman?	◆ "Only son of my father" = Myself◆ "Daughter of me" = My daughter✅ **Answer: Daughter**
"That man's sister is my mother's daughter"	Break relation by reverse mapping.	Q. Pointing to a photograph, Anjali says, "That man's sister is my mother's daughter." How is the man related to Anjali?	◆ "My mother's daughter" = Me (Anjali) or sister◆ "That man's sister = Anjali"◆ So, that man is Anjali's brother✅ **Answer: Brother**
Multiple Levels with Gender Confusion	Always confirm gender before assuming relations	Q. Pointing to a photograph, Rohan said, "She is the wife of the only son of my grandfather." How is the woman related to Rohan?	◆ "Only son of my grandfather" = My father◆ "Wife of my father" = My mother✅ **Answer: Mother**
'That girl is the daughter of the only son of my grandfather'	Use family tree logic → grandfather → son → daughter	Q. Pointing to a photograph, Rahul said, "That girl is the daughter of the only son of my grandfather." How is that girl related to Rahul?	◆ "Only son of grandfather" = Rahul's father◆ "Daughter of my father" = My sister✅ **Answer: Sister**

Blood Relation (Coded Based)

Pattern Type	Description	Example	How to Solve
1. Direct Symbolic Coding	Relationships are coded using symbols like +, -, *, $ etc.	A * B: A is sister of B	Replace symbol with real relation, analyze one step at a time

2. Chain/Multiple Relations	Multiple coded symbols are used to express a chain of relationships	A * B + C: A is sister of B and B is father of C	Decode left to right, step-by-step → A → B → C
3. Reverse Relation Question	Asked from other side: "How is B related to A?"	A + B: A is father of B → B is **son/daughter** of A	Reverse the relation direction carefully
4. Based on Gender Confirmation	Options require gender deduction even if the relation is clear	A @ B # C: A is father of B and B is mother of C	Use gender-specific symbols/terms to finalize the relation
5. Missing Person in Chain	Incomplete chain with a blank or variable; asked to identify unknown person	A + B = C, C – D = ?	Complete chain logically and identify relation

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