

NTSE

Blood - Relations

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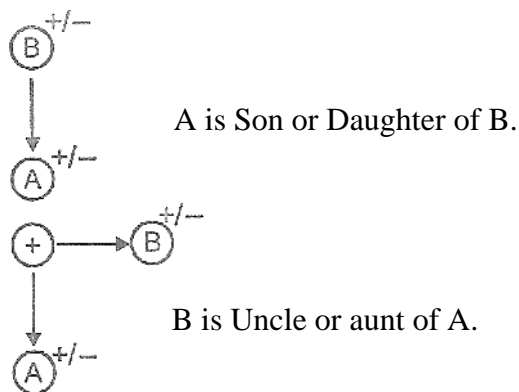
Problems on Blood Relations involve analysis of information showing blood relationship among members of a family. In the questions, a chain of relationship is given in the form of information and on the basis of these information relation between any two members of the chain is asked. Students are supposed to be familiar with the knowledge of different relationship in a family.

Grandfather's son	Father or uncle
Grandmother's son	Father or uncle
Grandfather's only son	Father
Grandmother's only son	Father
Mother's or Father's mother	Grandmother
Mother's or Father's father	Grandfather
Grandfather's only daughter-in-law	Mother
Grandmother's only daughter-in-law	Mother
Mother's or Father's son	Brother
Mother's or Father's daughter	Sister
Mother's or Father's brother	Uncle
Mother's or Father's sister	Aunt
Husband's or wife's sister	Sister-in-law
Husband's or wife's brother	Brother-in-law
Son's wife	Daughter-in-law
Daughter's husband	Son-in-law
Brother's son or Sister's son	Nephew
Brother's daughter or Sister's daughter	Niece
Uncle or Aunt's son or daughter	Cousin
Sister's husband	Brother-in-law
Brother's wife	Sister-in-law

Remark: A relation on the mother's side is called 'maternal' while that on the father's side is called 'paternal'. Thus, mother's brother is 'maternal uncle' while father's brother is 'paternal uncle'.

Note: To build tree, certain standard notations are used to indicate a relationship between the members of the family.

'+' stand for male person. '-' stand for female person. '+/-' male or female person. Stand for married couple.



Direction-Relationship

In these type of questions, around about description is given in the form of certain small relationship and you required to analyses the whole chain of relations and decipher the direction relationship between the persons concerned.

Ex 1. Pointing towards a man in the photograph, Archana said, "he is the son of the only son of my grandmother". How is that man related to Archana?

- (A) Cousin (B) Nephew
(C) Brother (D) Son

Sol. (C) Only son of Archana's grandfather means Archana's father & his son is Archana's brother.

Ex 2. Pointing to a photograph, a lady tells, Amit, "I am the only daughter of this lady and her son is your maternal uncle." How is the speaker related to Amit's father?

- (A) Sister-in-law (B) Wife
(C) Either (A) or (B) (D) Neither (A) nor (B)

Sol. (B) The lady who is talking to Amit is the daughter of the lady in the photograph. The son of that lady who is the brother of the lady who is talking to Amit. The brother of this lady is the maternal uncle of Amit. The lady is the mother of Amit & wife of amit's Father.

Relation Puzzle

In these type of question, mutual blood relations of more than two persons are mentioned. The candidate is required to analyse the given information, work out a family chart and then answer the given questions.

Ex 3. Rhit and Rohan are brothers, Soniya and Sunita are sister. Rohit's son is Sunita's brother. How is Rohan related to Soniya.

- (A) Father (B) Brother
(C) Grand Father (D) Uncle

Sol. (D) Rohit's son is Sunita's brother. Soniya and Sunita are sisters. Rohit's son is Sunita's brother. How is Rohan related to Soniya.

Directions: (4 to 6) P,Q,R,S,T,U,V, & W are the family members. Q is the sister of V and V is the brother of R. T whose's father is W, is wife of P. S is the husband of Q and U is the son of V. P is the father of Q.

Ex 4. How U is related with T?

- (A) Son (B) Mother
(C) Grandson (D) Nephew

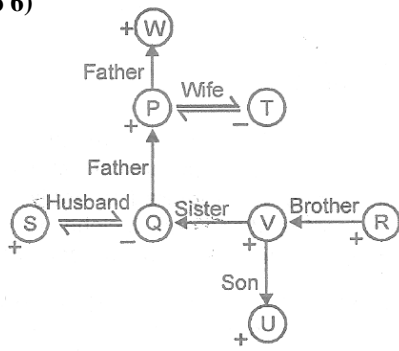
Ex 5. How S is related with R?

- (A) Son (B) uncle
(C) Brother-in-law (D) Brother

Ex 6. How W is related with R?

- (A) Grand father (B) uncle
(C) son (D) Brother

Sol. : (4 to 6)



4. (C) U is son of V and V is son of T.
 \therefore U is grandson of T.
5. (C) S is husband of Q and Q is sister of R.
 \therefore S is brother-in-law of R.
6. (A) R is son of P and P is son of W.
 \therefore W is grandfather of R.

Coded Relation

In such question, the relationship are represented by certain specific symbols such as +, -, \div , \times , \$, @, \square , O, etc. The candidate is then required to analyse some given codes to determine then relationship in the coded form.

Ex 7. $A + B$ means A is the son of B, $A - B$ means A is the wife of B, $A \times B$ means A is the brother of B, $A = B$ means A is the sister of B. Which of the following represents P is the maternal-uncle of Q?

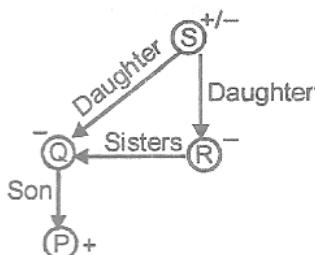
- (A) $R \times P \div Q$ (B) $P \times R \div Q$
 (C) $P + R \div Q$ (D) $P + R \times Q$

Sol. (B) $P \times R \Rightarrow R$ is brother of P.
 $R \div Q \Rightarrow R$ is mother of Q.
 \therefore P is maternal uncle of Q.

Ex 8. $A \times B$ means A is the sister of B, $A \div B$ means A is the daughter of B, $A - B$ means A is the son of B. On the basis of this information you have to tell, how is P related to S in the relationship

- $P - Q \times R \div S$
 (A) Brother (B) Son
 (C) Grandson (D) Daughter's son

Sol. (D) According to the directions



P is the son of the daughter of S.

EXERCISE

1. Amit said, "This girl is wife of the grandson of my mother." How is Amit related to the girl?
 (A) Father (B) Father-in-law
 (C) Grandfather (D) Husband
2. Introducing a girl, Vipin said, "Her mother is the only daughter of my mother-in-law." How is Vipin related to the girl?
 (A) Uncle (B) Father
 (C) Brother (D) Husband
3. Showing the lady in the park, Vineet said, "She is the daughter of my grand father's only son". How is Vineet related to that lady?
 (A) Brother (B) Cousin
 (C) Father (D) Uncle
4. Pointing to a man Amit said, "His son is my son's uncle". How is that man related to Amit?
 (A) Brother (B) Uncle
 (C) Father (D) Grandfather
5. Pointing to a man Aha said, "His brother's father is the only son of my grand father". How Asha is related to the man.
 (A) Mother (B) Aunt
 (C) Sister (D) Daughter
6. If P is the brother of the son of Q's Son, how is P related to Q?
 (A) Son (B) Brother
 (C) Cousin (D) Grandson
7. Pointing to a photograph, a man says to his friend, "She is the grand-daughter of the elder brother of my father". How is the girl in the photograph related to the man?
 (A) Niece (B) Sister
 (C) Aunt (D) Sister-in-law
8. Pointing to a girl in the photograph, Amar said, "Her mother's brother is the only son of my mother's father". How is the girl's mother related to Amar?
 (A) Mother (B) Sister
 (C) Sister-in-law (D) Grandmother
9. T is the son of P. S is the son of Q. T is married to R. R is Q's daughter. How is S related to T?
 (A) Brother (B) Uncle
 (C) Father-in-law (D) Brother-in-law

Direction: (10 to 12) Read the following information and answer the questions given below:
 A is the father of B who is the sister of C, C is the husband of P and L mother of C.

10. How P is related to L?
 (A) Daughter-in-law (B) Sister-in-law
 (C) Mother-in-law (D) Daughter
11. How B is related to L?
 (A) Daughter (B) Sister
 (C) Son (D) Brother

12. How A is related to L?
 (A) Wife (B) Father
 (C) Husband (D) Son
13. If Nishant is the brother of Brijesh, Mitali is the sister of Nishant, Jai is the brother of Purnima, Purnima is the daughter of Brijesh. Who is the uncle of Jai?
 (A) Brijesh (B) Mitali
 (C) Nishant (D) Purnima
14. If A is B's brother, B is C's sister and C is D's father then D is A's.
 (A) Brother (B) Sister
 (C) Nephew (D) Data inadequate

Directions: (15 to 18) Read the following information carefully and answer the questions given below:

There are six children playing football namely A, B, C, D, E and F. A and E are brother. F is the sister of E. C is the only son of A's uncle. B and D are the daughters of C's father.

15. How is C related to F?
 (A) Cousin (B) Brother
 (C) Son (D) Uncle
16. How many male players are there?
 (A) One (B) Three
 (C) Five (D) Six
17. How many female players are there?
 (A) Two (B) Three
 (C) Five (D) One
18. How is D related to A?
 (A) Uncle (B) Sister
 (C) Niece (D) Cousin
19. If $P \$ Q$ means P is the father of Q, $P \# Q$ means P is mother of Q and $P * Q$ means P is the sister of Q. Then how is Q related to N if $N \# L \$ P * Q$.
 (A) Grandson (B) Granddaughter
 (C) Nephew (D) Data inadequate
20. $S - T$ means S is the mother of T, $S + T$ means S is the father of T, $S \times T$ means S is the brother of T. Which of the following represents M is the son of Q?
 (A) $M \times Q + R$ (B) $M + Q \times R$
 (C) $Q + M \times R$ (D) $Q \times M \times R$

Directions: (21 to 24) Study the following information to answer the given questions.

$A + B$ means A is father of B.

$A - B$ means A is wife of B.

$A \times B$ means A is brother of B.

$A \div B$ means A is daughter of B.

21. If $P \div R + S + Q$, which of the following is true?
 (A) P is daughter of Q (B) Q is aunt of P
 (C) P is aunt of Q (D) P is mother of Q
22. If $P - R + Q$, which of the following is true
 (A) P is mother of Q (B) Q is daughter of P
 (C) P is aunt of Q (D) P is sister of Q
23. If $P \times R \div Q$, which of the following is true?
 (A) P is uncle of Q (B) P is father of Q
 (C) P is brother of Q (D) P is son of Q.
24. If $P \times R - Q$, which of the following is true.
 (A) P is brother in law of Q
 (B) P is brother of Q
 (C) P is uncle of Q
 (D) P is father of Q
25. Sita introducing a man to her husband Ram, told "Grand father of his son is only a son of my Grandfather" how Sita is related to that man.
(NTSE Stage-I/Raj./2007)
 (A) Daughter-in-law (B) Sister
 (C) Daughter (D) Monter-in-law
26. Introducing Radha, Kalpana said "her mother is alone daughter of my mother". How Kalpana is related to Radha? **(NTSE Stage-I/Raj./2007)**
 (A) Mother (B) Sister
 (C) Niece (D) Daughter
27. If $A + B$ means A is the brother of B, $A - B$ means A is the father of B, $A \times B$ means A is the wife of B, then $P \times R - S + T$ means **(NTSE Stage-II, 2007)**
 (A) P is the mother of T.
 (B) T is the sister of P
 (C) R is the grand father of T
 (D) T and R are sisters.
28. If M is Father of N, L is Brother of M and P is Mother of L, then what is the relation of N with P?
(NTSE Stage-I/Raj./2008)
 (A) Grand-Daughter (B) Grand-Son
 (C) Father (D) Data inadequate

ANSWER KEY

Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	B	B	A	C	C	D	A	A	D	A	A	C	C	D	A
Que.	16	17	18	19	20	21	22	23	24	25	26	27	28		
Ans.	B	B	D	D	C	C	A	D	A	B	A	A	D		