

## Blood Relations

### Model 1: Relation Based on given Statements

1. D is the brother of B. M is the Brother B. K is the father of M. T is the wife of K. How is B



related to T?

- |                    |                  |                    |
|--------------------|------------------|--------------------|
| 1) Son             | 2) Daughter      | 3) Son or Daughter |
| 4) Data Inadequate | 5) None of these |                    |

2. B is the sister of D. M is the father of D. N is the sister of M. How is B related to N?



- |                    |                  |          |
|--------------------|------------------|----------|
| 1) Brother         | 2) Aunt          | 3) Niece |
| 4) Data Inadequate | 5) None of these |          |

3. K is brother of T. M is mother of K. W is brother of M. how is W related to T?

- |                    |                   |                |
|--------------------|-------------------|----------------|
| 1) Maternal Uncle  | 2) Paternal Uncle | 3) Grandfather |
| 4) Data Inadequate | 5) None of these  |                |

4. M is sister of K. D is brother of K. F is mother of M. how is K related to F?

- |                    |                  |                    |
|--------------------|------------------|--------------------|
| 1) Son             | 2) Daughter      | 3) Son or Daughter |
| 4) Data Inadequate | 5) None of these |                    |

### Model 2: Relation Based on Symbols and Equations

**Directions (5-7):** Read the following information carefully and answer the questions given below

$P/Q$  means P is father of Q

$P+Q$  means P is the mother of Q

$P-Q$  means P is the brother of Q

$P*Q$  means P is the sister of Q

5. If  $A+B/C-D$ , then A is D's \_\_\_\_\_?



1) Sister

2) Grandfather

3) Grandmother

4) Father

5) None of these

6. If  $A*B/C-D+E$ , then A is E's

1) Grand-aunt

2) Brother

3) Maternal uncle

4) Mother

5) None of these

7. Which of the following shows that A is aunt of E?



1)  $A-B+C/D*E$

2)  $A*B/C*D-E$

3)  $A/B*C+D-E$

4)  $A+B-C*D/E$

5) None of these

**Directions (8-10):** Read the following information carefully and answer the questions given below

$A+B$  means A is the daughter of B.

$A-B$  means A is the husband of B.

$A*B$  means A is the brother of B.

8. If  $P+Q-R$ , which of the following is true?

1) R is the mother of P

2) R is the sister in law of P

3) R is the aunt of P

4) R is the mother in law of P

5) None of these

9. If  $P*Q+R$ , which of the following is true?

1) P is the brother of R

2) P is the uncle of R

3) P is the son of R

4) P is the father of P

5) None of these

10. If  $P+Q^*R$ , which of the following is true?

- |                                  |                       |                         |
|----------------------------------|-----------------------|-------------------------|
| 1) P is the niece of R           | 2) P is daughter of P | 3) P is the cousin of R |
| 4) P is the daughter in law of R | 5) None of these      |                         |

11. If  $A \$ B$  means 'A is father of B',  $A \# B$  means 'A is daughter of B',  $A @ B$  means 'A is sister of B', then how is K related to M in  $H @ K \$ L \# M$ ?

- |                         |                  |           |
|-------------------------|------------------|-----------|
| 1) Husband              | 2) Uncle         | 3) Father |
| 4) Cannot be determined | 5) None of these |           |

12. If  $A+B$  means A is the sister of B;  $A-B$  means A is the brother of B;  $A^*B$  means A is the daughter of B, which of the following shows the relation that E is the maternal uncle of D?

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|-------------|-------------|-------------|-------------|------------------|
| 1) $D+F^*E$ | 2) $D-F^*E$ | 3) $D^*F+E$ | 4) $D^*F-E$ | 5) None of these |
|-------------|-------------|-------------|-------------|------------------|

13.  $P-Q$  means Q is son of P and  $P^*Q$  means P is brother of Q,  $P/Q$  means Q is sister of P, and  $P+Q$  means P is mother of Q. Which of the following is definitely true about  $N^*K-M/L$ ?

- 1) K is father of L and M
- 2) L is the daughter of K and is the niece of her uncle N
- 3) K is the father of M and L-his son and daughter respectively
- 4) M is the uncle of K's brother N
- 5) None of these

### Model 3: Relation in a Complex Statement

14. Pointing a girl, Arun said, "She is the only daughter of my grandfather's son." How is the girl related to Arun?



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|--------------------|------------------|------------------|
| 1) Daughter        | 2) Sister        | 3) Cousin/sister |
| 4) Data Inadequate | 5) None of these |                  |

15. Nandini is the only daughter of Madan's sister Sangita's brother. How is Nandini related to Madan?

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|-------------------|------------------|-----------|
| 1) Daughter       | 2) Niece         | 3) Cousin |
| 4) Niece/Daughter | 5) None of these |           |

16. Pointing to a boy, Meena said, "He is the only grandson of grandfather." How is the boy related to Meena?

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|--------------------|------------------|----------|
| 1) Brother         | 2) Cousin        | 3) Uncle |
| 4) Data Inadequate | 5) None of these |          |

17. Pointing a woman Nirmal said "She is the only daughter of my wife's grandfather's only child." How is the woman related to Nirmal?



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|--------------------|------------------|-----------|
| 1) Wife            | 2) Sister-in-law | 3) Sister |
| 4) Data Inadequate | 5) None of these |           |

18. Pointing a photograph, Rasika said "He is the grandson of my grandmother's only son." How is the boy in photograph related to Rasika?

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|-------------------------|-----------|------------|
| 1) Son                  | 2) Nephew | 3) Brother |
| 4) Cannot be determined | 5) None   |            |

19. Pointing a woman, Suresh said "she is the daughter of my grandfather's only daughter". How is the Suresh related to the woman?

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|-------------------------|-----------|----------|
| 1) Brother              | 2) Cousin | 3) Uncle |
| 4) Cannot be determined | 5) None   |          |

20. Pointing a boy, Divya said, "He is the son of my father's only brother." How is Divya related to that boy?

- |                    |                  |             |
|--------------------|------------------|-------------|
| 1) Sister          | 2) Cousin/Sister | 3) Daughter |
| 4) Data Inadequate | 5) None          |             |

**Directions (21-25):** Read the following information carefully and answer the questions given below

P, Q, R, S, T and X are members of a family. There are two married couples. Q is an engineer and father of T. X is the grandfather of R and is a lawyer. S is the grandmother of T and is a housewife. There is one engineer, one lawyer, one teacher, one housewife and two students in a family.

21. Who is the husband of P?

- |      |      |      |      |      |
|------|------|------|------|------|
| 1) R | 2) X | 3) Q | 4) S | 5) T |
|------|------|------|------|------|

22. Which of the following two are married couples?

- |           |           |           |           |                  |
|-----------|-----------|-----------|-----------|------------------|
| 1) XS, QP | 2) XS, QT | 3) XS, RP | 4) TS, RX | 5) None of these |
|-----------|-----------|-----------|-----------|------------------|

23. Which of the following is definitely a group of male members?

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|------------|---------|------------|---------|------------------|
| 1) Q, X, T | 2) X, T | 3) Q, X, P | 4) Q, X | 5) None of these |
|------------|---------|------------|---------|------------------|

24. Who is the sister of T?

- |                    |                  |      |
|--------------------|------------------|------|
| 1) R               | 2) S             | 3) P |
| 4) Data inadequate | 5) None of these |      |

25. Which of the following can be P's profession?

- |                        |                         |            |
|------------------------|-------------------------|------------|
| 1) Housewife           | 2) Engineer             | 3) Teacher |
| 4) Engineer or teacher | 5) Housewife or teacher |            |

**Answers**

1 - 3	2 - 3	3 - 1	4 - 3	5 - 3
6 - 1	7 - 2	8 - 1	9 - 3	10 - 1
11 - 1	12 - 5	13 - 2	14 - 3	15 - 4
16 - 4	17 - 1	18 - 4	19 - 2	20 - 2
21 - 3	22 - 1	23 - 4	24 - 4	25 - 3