

CODED RELATIONSHIP

Directions: Read the following information carefully and answer the questions, which follow:

'P ÷ Q' means 'P is son of Q'.

'P × Q' means 'P is sister of Q'.

'P + Q' means 'P is brother of Q'.

'P – Q' means 'P is mother of Q'.

1. How is T related to S in the expression 'T × R + V – S'?

- (1) Sister (2) Mother
(3) Aunt (4) Uncle
(5) None of these

2. How is T related to S in the expression 'T × R – V ÷ S'?

- (1) Father (2) Sister
(3) Daughter (4) Aunt
(5) None of these

3. How is S related to T in the expression 'T + R – V + S'?

- (1) Uncle
(2) Nephew
(3) Son
(4) Cannot be determined
(5) None of these

4. Which of the following means that 'S is the husband of T'?

- (1) T × R – V + S (2) T – R ÷ V × S
(3) T – R + V ÷ S (4) T ÷ R × V + S
(5) None of these

5. How is V related to T in the expression 'T ÷ R + V × S'?

- (1) Aunt (2) Nephew
(3) Niece (4) Uncle
(5) None of these

Directions: Study the following information carefully to answer these questions.

(i) 'P × Q' means 'P is brother of Q'.

(ii) 'P – Q' means 'P is sister of Q'.

(iii) 'P + Q' means 'P is mother of Q'.

(iv) 'P ÷ Q' means 'P is father of Q'.

6. Which of the following means 'M is daughter of R'?

- (1) R ÷ D × M (2) R + D × M
(3) M – J × R + T (4) R + M – T
(5) None of these

7. Which of the following means 'K is maternal uncle of W'?

- (1) K – J + W (2) K × J ÷ W
(3) K × J + W (4) W + J × K
(5) None of these

Directions: These questions are based on the following information. Study it carefully and answer the questions.

(i) 'A × B' means 'A is father of B'.

(ii) 'A ÷ B' means 'A is daughter of B'.

(iii) 'A + B' means 'A is sister of B'.

(iv) 'A – B' means 'A is husband of B'.

8. In 'F ÷ R × H – L', how is H related to F?

- (1) Father (2) Brother
(3) Sister (4) Can't be determined
(5) None of these

9. Which of the following indicates 'N is mother of K'?

- (1) K + L ÷ N × F (2) K + L ÷ N – M
(3) H × K ÷ N (4) N × F + K
(5) None of these

10. In 'F – R + H ÷ T', how is F related to T?

- (1) Son-in-law (2) Daughter-in-law
(3) Son (4) Daughter
(5) None of these

11. In 'G × T + Q ÷ M', how is M related to G?

- (1) Brother (2) Sister
(3) Sister-in-law (4) Can't be determined
(5) None of these

Directions: Study the following information carefully to answer these questions.

(i) 'A × B' means 'A is father of B'.

(ii) 'A + B' means 'A is daughter of B'.

(iii) 'A ÷ B' means 'A is mother of B'.

(iv) 'A – B' means 'A is brother of B'.

12. If 'P ÷ R – Q × T', how is P related to T?

- (1) Grandmother (2) Mother-in-law
(3) Sister (4) Grandfather
(5) None of these

13. If 'P ÷ Q + R × T' how is T related to Q?

- (1) Aunt (2) Sister
(3) Brother (4) Grandson
(5) None of these

14. Which of the following means that R is wife of P?

- (1) P × R – Q – T (2) P ÷ T + R – Q
(3) P ÷ R – Q + T (4) P × T – Q + R
(5) None of these

15. If 'R – P ÷ J × Q', how is J related to R?

- (1) Son/daughter (2) Nephew
(3) Niece (4) Grandson
(5) None of these



16. If $P + Q - R \div T$, how is T related to P?

- (1) Aunt (2) Aunt/Uncle
(3) Father (4) Grandmother
(5) None of these

17. If $P \times T \div Q + R$ how is related to P?

- (1) Daughter
(2) Husband
(3) Son-in-law
(4) Son-in-law/Daughter-in-law
(5) None of these

Directions:

- (i) $P \times Q$ means 'P is brother of Q'
(ii) $P - Q$ means 'P is sister of Q'.
(iii) $P + Q$ means 'P is father of Q'.
(iv) $P \div Q$ means 'P is mother of Q'.

18. Which of the following represents 'M is nephew of N'?

- (1) $N - K + M$ (2) $N \times K \div M$
(3) $N \div K \times M$ (4) $N - K + M \times T$
(5) None of these

19. How is T related to D in the expression : $H + T \div R - D$?

- (1) Nephew (2) Niece
(3) Nephew or Niece (4) Data inadequate
(5) None of these

20. Which of the following represents F is daughter of W?

- (1) $W \div R + F$ (2) $W \times R \times F$
(3) $W + R \times F - T$ (4) $W + R - F + T$
(5) None of these

Directions: These questions are based on the following information:

- $P \odot Q$ means 'Q is the brother of P'.
 $P \# Q$ means 'P is the daughter of Q'.
 $P = Q$ means 'Q is the sister of P'.
 $P \& Q$ means 'P is the son of Q'.
 $P \star Q$ means 'P is the father of Q'.
 $P @ Q$ means 'P is the mother of Q'.

21. Which of the following is a **correct** conclusion drawn from the expression

$$'Q \& N @ S \odot M = P'$$

- (1) S is the brother of P.
(2) N has two sons and two daughters.
(3) S is the sister of Q.
(4) P is the sister of Q.
(5) None of these

22. What does the expression $P @ R = S \odot T \& V$ mean?

- (1) V is the husband of P.
(2) R is the son of V.
(3) R is the daughter of V.
(4) V is the wife of P.
(5) None of these

23. Which of the following indicates that 'C is the paternal uncle of D'?

- (1) $C \& V \# N @ L \odot D$ (2) $C \& V \& L @ N \odot D$
(3) $D \& L \& N @ V \odot C$ (4) $D \& N \# V @ L \odot C$
(5) None of these

24. Which of the following indicates that 'Q is the daughter of N'?

- (1) $Q \star P \# C @ N @ V$ (2) $N \star P \# C @ Q @ V$
(3) $M @ N \# R \star Q$ (4) $M \odot Q = V \# N$
(5) None of these

25. Which of the following is the **correct** conclusion drawn from the expression

$$'L = M \# N \odot P \star Q'$$

- (1) Q is the grandson of M.
(2) L is the uncle of N.
(3) N is the uncle of Q.
(4) Q is the niece of N.
(5) None of these

Directions: Following questions are based on the information given below:

- (i) $P \times Q$ means 'P is father of Q'.
(ii) $P - Q$ means 'P is sister of Q'.
(iii) $P + Q$ means 'P is mother of Q'.
(iv) $P \div Q$ means 'P is brother of Q'.

26. In the expression $B + D \times M \div N$, how is M related to B?

- (1) Granddaughter
(2) Son
(3) Grandson
(4) Granddaughter or Grandson
(5) None of these

27. Which of the following represents 'J is son of F'?

- (1) $J \div R - T \times F$ (2) $J + R - T \times F$
(3) $J \div M - N \times F$ (4) Can't be determined
(5) None of these

28. Which of the following represents 'R is niece of M'?

- (1) $M \div K \times T - R$ (2) $M - J + R - N$
(3) $R - M \times T \div W$ (4) Can't be determined
(5) None of these

Directions: Read the information carefully and give the answer of following questions is based on the given instructions.

- (i) $P \times Q$ means 'P is brother of Q'.
(ii) $P \div Q$ means 'P is sister of Q'.
(iii) $P + Q$ means 'P is father of Q'.
(iv) $P - Q$ means 'P is mother of Q'.

29. Which of the following means 'S is nephew of R'?

- (1) $S \times T \div J + R$ (2) $R \div M - S + T$
(3) $R - M \div S \times T$ (4) $R \div M \times S - T$
(5) None of these



30. Which of the following means 'M is grandfather of W'?
- (1) $M - J + W$ (2) $M + J \times W$
 (3) $M \times T + W$ (4) $M + J - W$
 (5) None of these
- Directions:** These questions are based on the following information:
- (i) ' $A \times B$ ' means 'A is mother of B'.
 (ii) ' $A \div B$ ' means 'A is brother of B'.
 (iii) ' $A + B$ ' means 'A is son of B'.
 (iv) ' $A - B$ ' means 'A is wife of B'.
31. In $J - T \div K + F$, how is F related to J?
- (1) Daughter-in-law
 (2) Daughter
 (3) Mother-in-law
 (4) Cannot be determined
 (5) None of these
32. In $R \times H + D$, how is R related to D?
- (1) Mother (2) Uncle
 (3) Wife (4) Can't be determined
 (5) None of these
- Directions:**
- (i) ' $P \times Q$ ' means 'P is brother of Q'.
 (ii) ' $P \div Q$ ' means 'P is sister of Q'.
 (iii) ' $P + Q$ ' means 'P is mother of Q'.
 (iv) ' $P - Q$ ' means 'P is father of Q'.
33. Which of the following means 'M' is nephew of R'?
- (1) $M \times T + J \div R$ (2) $R \times K - M \times T$
 (3) $R \times K - M$ (4) $R \times K - T \times M$
 (5) None of these
34. Which of the following means 'D is maternal uncle of T'?
- (1) $D \times J + T$ (2) $D \times J - T$
 (3) $D \div J + T$ (4) $D \div K - T$
 (5) None of these
35. Which of the following means 'R is granddaughter of B'?
- (1) $R \div M + K - B$ (2) $K + M \div R - B$
 (3) $B - T + R \div D$ (4) $B - T + R$
 (5) None of these
- Directions:** These questions are based on the following information:
- ' $A + B$ ' means 'A is father of B'.
 ' $A \times B$ ' means 'A is wife of B'.
 ' $A - B$ ' means 'A is sister of B'.
 ' $A \div B$ ' means 'A is brother of B'.
36. Which of the following expressions represents 'J' is daughter of D'?
- (1) $D \times K + J \div H$ (2) $D \times K \div H - J$
 (3) $D \times K + J - H$ (4) $D + K \div J$
 (5) None of these
37. In $M \div L + T \times R$, how is T related to M?
- (1) Nephew (2) Niece
 (3) Daughter (4) Can't be determined
 (5) None of these
38. Which of the following expressions represents 'V is mother of L'?
- (1) $V \div F + J - L$ (2) $F \times V + J - L$
 (3) $F \div V + J - L$ (4) $V \times F + J - L$
 (5) None of these
- Directions:** These questions are based on the following information:
- ' $P = Q$ ' means 'Q is the father of P'.
 ' $P \cap Q$ ' means 'P is the sister of Q'.
 ' $P ? Q$ ' means 'Q is the mother of P'.
 ' $P \$ Q$ ' means 'P is the brother of Q'.
 ' $P \& Q$ ' means 'Q is the son of P'.
 ' $P \times Q$ ' means 'P is the daughter of Q'.
39. Which of the following is not correct?
- (1) $L \$ M \cap O$ means O is the sister of L.
 (2) $M \cap O \& P = Q$ means Q and O are husband and wife.
 (3) $P = Q ? R$ means R is the grandmother of P.
 (4) $R \times S ? T$ means R is the granddaughter of T.
 (5) All are correct
40. Which of the following is **correct**?
- (1) $L \& M \$ R$ means R is the paternal uncle of L.
 (2) $M \$ R \cap D ? V$ means M is the son of V.
 (3) $D ? V \times T$ means D is the granddaughter of T.
 (4) $V \times T \cap P$ means P is the maternal uncle of V.
 (5) None is correct
41. Which of the following indicates 'A is the grandfather of B'?
- (1) $M \times A = N = B$ (2) $B \$ L \times Q \times A$
 (3) $L \cap B = S \$ Q = A$ (4) $B \times L \times A$
 (5) None of these
42. Which of the following means 'F is the paternal uncle of G'?
- (1) $L = F \$ Q \& G$ (2) $G \times M \cap F \$ L$
 (3) $N \$ F \$ L \times G$ (4) $G \times L \$ F \$ N$
 (5) None of these

43. 'S \times M \div B & L = F ? Q' reveals which of the following relations?

- (1) M is the maternal aunt of L.
- (2) L is the granddaughter of Q.
- (3) B is the paternal uncle of S.
- (4) F and B are brother and sister.
- (5) None of the above relations gets revealed.

Directions: These questions are based on the following information:

- (i) 'P \times Q' means 'P is brother of Q'.
- (ii) 'P - Q' means 'P is mother of Q'.
- (iii) 'P + Q' means 'P is father of Q'.
- (iv) 'P \div Q' means 'P is sister of Q'.

44. Which of the following means 'M is niece of N'?

- (1) M \times R - N
- (2) N \div J + M \div D
- (3) N \div J + M
- (4) N \times J - M
- (5) None of these

45. Which of the following means "B is grandfather of F" ?

- (1) B + J - F
- (2) B - J + F
- (3) B \times T - F
- (4) B \div T + F
- (5) None of these

46. How is M related to K in the expression 'B + K \div T \times M' ?

- (1) Son
- (2) Daughter
- (3) Son or daughter
- (4) Data inadequate
- (5) None of these



CODED RELATIONSHIP

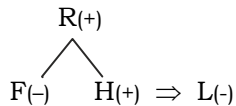
1. 5 2. 2 3. 4

4. 3 5. 1

6. 2

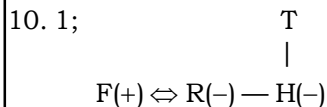
7. 4

8. 2;



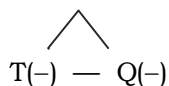
Hence H is the brother of F.

9. 5; If N is the mother, then N must be a female. Hence all the choices are ruled out.



Hence F is the son-in law of T.

11. 5; $G(+) \Leftrightarrow M(-)$



Hence M is the wife of G.

12. 1; $P \div R - Q \times R$ means
P is Grandmother of T.

13. 5; The gender of 'T' is not clear so we can't be determined the relation of 'T' with 'Q'.

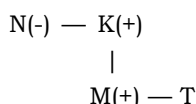
14. 4

15. 2

16. 5; In $P + Q - R \div T$
T is cousin of P.

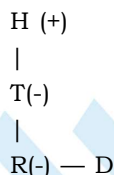
17. 3

18. 4; Reject (1), (2) and (3) because gender of M is not known. Check the option (4).



It is obvious from the above family tree that 'M' is the nephew of 'N'.

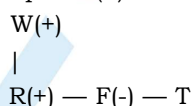
19. 5; Make a family tree of the given expression.



Obviously, 'T' is the mother of 'D'.

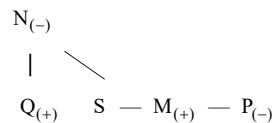
20. 3; Reject (1) and (2) because in these expressions gender of F is not known.

Again, reject (4) because in the given expression 'F' has been represented as a male. Now, check the option (3).



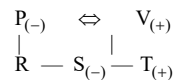
In the above family tree 'F' is the daughter of 'W'.

21. 4; Make a family tree as shown here.



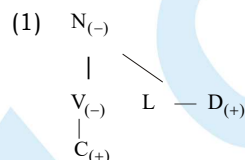
Look at the given expression carefully. The gender of 'S' is not known therefore (1), (2) and (3) are not necessarily true. (4) is true.

22. 1;

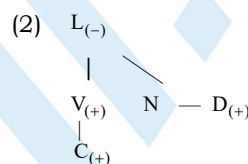


Since the gender of 'R' is not known, (2) and (3) are not necessarily true. Reject (4) because 'V' is a male.

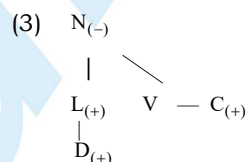
23. 3; Make family trees of the given expressions and search for the right expression.



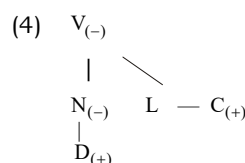
Here 'C' is the nephew of 'D'. (Rejected)



Here 'C' is the nephew of 'D'. (Rejected)

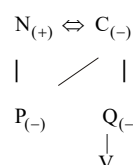


Here 'C' is the paternal uncle of 'D'. (Answer)



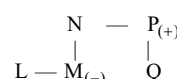
Here, 'C' is the maternal uncle of 'D'. (Rejected)

24. 2; Reject (1) and (4) because in these expressions 'Q' has been represented as a male. Reject (3) because the gender of 'Q' is not known. Now, check option (2).



Here, 'Q' is the daughter of 'N'.

25. 5; Look at the family tree given below:



Reject (1) because 'Q' is the cousin of 'M'. Reject (2) because L is the child of N. Reject (3) because the gender of 'N' is not known. Reject



(4) because the gender of 'Q' is not known.

26-28: To solve these questions you can take help of family trees:

26. 3; We have

B₍₋₎
|
D₍₊₎
|
M₍₊₎ — N

Obviously, M is the grandson of B.

27. 5 28. 2 29. 2 30. 4 31. 4 32. 3
33. 2 34. 1 35. 3 36. 3 37. 2 38. 4
39. 1 40. 2 41. 3 42. 4 43. 1 44. 2
45. 1 46. 4

