

DIRECTION & BLOOD RELATION

Directions(1-3): Study the following information carefully and answer the questions given below:

There are ten members A, B, C, D, E, F, G, H, I and J in the family. There are three generations of the family. There is an equal number of male and female. A is the daughter – in – law of J.B's brother I have only one sister A. H and B are the married couple. H is the mother – in – law of C.G is the mother of B. D is the son in law of G. C is the sister of E. F is the only son of D.

1. If B is the son in law of X. Then how is X related to C?

1. Father
2. Grandmother
3. Grandfather
4. Can't be determine
5. None of these

2. If Y is the daughter of I. Then how is Y related to F?

1. Sister
2. Brother
3. Sister – in – law
4. Cousin
5. Brother in law

3. If Y is the father of I then how is D related to Y?

1. Son
2. Daughter
3. Son – in – law
4. Brother
5. None of these

Directions(4 – 6): Read the information carefully and answer the following questions:

M + N means M is the mother of N.

M × N means M is the father of N.

M \$ N means M is the wife of N.

M % N means M is the sister of N.

M ÷ N means M is the son of N.

M # N means M is the husband of N.

4. What should come in place of question mark to establish that D is son-in-law of B in the expression 'A % B × C ? D × E'

1. ÷
2. %
3. ×
4. \$
5. Either \$ or ×

5. Which of the following options is true if the expression 'A + B % J × L ÷ K' is definitely true?

1. L is daughter of B
2. K is son-in-law of A
3. A is grandmother of L
4. B is father of J
5. J is brother of L

6. Which of the given expressions indicates that P is daughter of Q?

1. L % R % Q + T % P
2. L + R \$ Q × P % T
3. L % R \$ Q + T × P
4. B + L \$ Q ÷ P × T
5. L \$ B ÷ Q % P ÷ T

Direction (7 – 10):- Read the given information carefully and answer below Question.

There are 7 family members P, Q, R, S, T, U and V standing in ground in which there are 2 married couples. P is sister of Q who is maternal grandson of T. Maternal grandfather of Q is standing 3m to the right of Q who is facing north. The father of S has 2 maternal grandchildren. V is facing north. V is standing 4m to the south of maternal grandson of U. S is 2m to the right of V. P is 1m south of S and 1m west of U. R is sister-in-law of V and standing 9m to the north of her mother. V is father of P. U is a Female.

7. What is direction and distance and relationship of S with respect to P?

1. 1m north, Mother
2. 1m south, Sister
3. 1m north, Mather – in law
4. 1m north, Daughter
5. None of these.

8. Maternal Granddaughter of U is standing in which direction with respect to her husband?

1. South – East
2. South
3. North
4. South – West
5. None of these.

9. What is a minimum distance between V and His father – in – Law?

1. 3m
2. 2.2m
3. 4m
4. 6m
5. None of these

10. What is the relation between S and U?

1. U is brother of S
2. S is sister of U
3. U is mother of S
4. S is son of U
5. None of these

Direction(11-13):- Read the following information carefully and answer the questions.

M, N, O, P, Q, R and S are members of a family consisting of four adults and three children, two of whom, R and S are girls. M and P are brothers. Q married to one of the brothers and has two children. If N is married to P and S is their child.

11. P is the brother in law of _____.

1. Q
2. S
3. R
4. O
5. Cannot be determined

12. How is S related to M?

1. Niece
2. Son
3. Daughter
4. Cousin
5. Cannot be determined

13. Who is O?

1. Daughter of M
2. Brother of N
3. Husband of Q
4. Son of Q
5. Sister of R

Direction (14-16):- Study the following information carefully and answer the questions given below:

P \$ Q means- 'P is son of Q'.

P & Q means- 'P is father of Q'.

P # Q means- 'P is brother-in-law of Q'.

P * Q means- 'P is wife of Q'.

P @ Q means- 'P is daughter of Q'.

P % Q means- 'P is son-in-law of Q'.

P ! Q means- 'P is sister to Q'.

14. If G @ H ! I # E & D * F is true, then how is G related to F?

1. Uncle
2. Mother-in-law
3. Sister-in-law
4. Brother
5. Cousin

15. If Q @ R & S * T % U ! W \$ V is true, then how is Q related to V?

1. Son
2. Father
3. Sister-in-law
4. Mother
5. Granddaughter

16. N & P * T # K ! M % I & R is true, then how is N related to R?

1. Father-in-law
3. Son-in-law
5. None of these
2. Brother-in-law
4. Father

Direction (17-19):- Study the information carefully and answer the questions given below.

Jay starts walking from point Z towards north and walks 12m to reach point Y. Then he takes a left turn and walks 15m to reach point X. From point X takes a right turn and walks 10m to reach point W, then again, he takes a right turn and walks 6m to reach point V. From point V takes a left turn and walks 18m to reach point U, then he again takes a left turn and walks 4m to reach point T and finally he takes a right turn and walks 12m to reach point S.

17. If point R is 13m east of point T, then what is the shortest distance between point Z and point R?

1. 23m
3. 28m
5. Can't be determined
2. 32m
4. 40m

18. Four of the following five belongs to a group based on their directions find the one that does not belong to that group?

1. T, Z
3. W, Y
5. X, T
2. S, V
4. S, U

19. If point P is 2m west of point S, then Point P is in which direction with respect to point W?

1. North
3. East
5. None of these
2. South
4. West

Directions(20): study the following information and answer the given questions:

Sourabh walked 5m towards north from point M and reached point V. He took a right turn from point V and walked 7m and reached point X. He took a right turn from point X and walked 10 m to reach point Z. He took another right turn from point Z and walked 6m to reach point F. Sourabh took a right turn from point F and walked 5 m to reach point H.

20. How far and in which direction is Point H from Point M?

1. 2m towards East
3. 1m towards west
5. None of these
2. 1m towards East
4. 2m towards west

Direction (21- 24): Study the following information carefully and answer the questions given below:

Eight persons – Joy, Raj, Sam, Pal, Aby, Neo, Dev and Tia consists of a family of three generations such that there are three females and two married couples in the family. For every person of the family either both or none of the parents are alive.

Sam's sister in law is mother of Dev.

Tia is an unmarried female.

Dev's mother doesn't have any siblings.

Joy is father in law of Neo who is mother of two children.

Raj is grandmother of Dev who is nephew of Pal.

21. How is Sam related to Raj?

1. Daughter
3. Son
5. Wife
2. Son in law
4. Husband

22. How is Neo related to Pal?

1. Sister in law
3. Wife
2. Mother in law
4. Daughter in law

5. Brother in law

23. How many children does Joy have?

1. One
3. Three
5. Five
2. Two
4. Four

24. How is Aby related to Tia?

1. Mother
3. Aunt
5. Father
2. Brother
4. Uncle

Direction (25- 28): Read the given information carefully and answer below question.

There are 7 family members P, Q, R, S, T, U and V standing in ground in which there are 2 married couples. P is sister of Q who is maternal grandson of T. Maternal grandfather of Q is standing 3m to the right of Q who is facing north. The father of S has 2 maternal grandchildren. V is facing north. V is standing 4m to the south of maternal grandson of U. S is 2m to the right of V. P is 1m south of S and 1m west of U. R is sister-in-law of V and standing 9m to the north of her mother. V is father of P. U is a Female.

25. Maternal Granddaughter of U is standing in which direction with respect to her husband?

1. South – East
3. North
5. None of these.
2. South
4. South – West

26. What is direction and distance and relationship of S with respect to P?

1. 1m north, Mother
3. 1m north, Mather – in law
5. None of these
2. 1m south, Sister
4. 1m north, Daughter

27. What is a minimum distance between V and His father – in – Law?

1. 3m
3. 4m
5. None of these
2. 2m
4. 6m

28. What is the relation between S and U?

1. U is brother of S
3. U is mother of S
5. None of these
2. S is sister of U
4. S is son of U

Direction (29-30): Read the following information carefully and answer the questions which follow:

Point M is 5 meters towards the North of Point L.

Point P is 10 meters towards the East of point M.

Point N is 6 meters towards the East of point L.

Point O is 11 meters towards the West of point N.

29. If a person walks 5 m towards the South from point P and then walks after taking a right turn, which of the following points would he reach first?

1. L
3. N
5. None of these
2. M
4. O

30 . How far should one walk from Point L in order to reach point O?

1. 4 m
3. 5 m
5. 8 m
2. 9 m
4. 14 m

Direction 31: Study the given information and answer the following question.

A is 20 m away from C in east direction. B is standing in south of A and is facing south direction and distance between A and B is 30 m. Now to the right of B, covering 32 m towards west, D is standing. D is eating ice-cream standing on its position and facing north. After eating ice cream D starts moving towards south-east direction covering 13 m and reaches to the position of E.

31. What is the distance between D and C and C is in which direction with respect to D?

1. 31m, north-east
2. 29m, north-west
3. 32.3m, north-east
4. 40m, north-west
5. Cannot be determined

Direction (32-35):- Study the following information and answer the questions given below.

A @ B means A is brother of B

A \$ B means A is father of B

A # B means A is wife of B

A % B means A is sister of B

32. Which of the following should replace question mark (?) such that E is brother-in-law of B?

A @ B # C (?) D % E \$ F

1. %
2. \$
3. @
4. #
5. Either A or C

33. How is S related to M in M % N @ O # P \$ S ?

1. Nephew
2. Daughter-in-law
3. Cousin
4. Niece
5. Can't be determined

34. How is Z related to P in P @ Q # R \$ S % Z # X ?

1. Daughter-in-law
2. Niece
3. Sister-in-law
4. Cousin
5. Can't be determined

35. How is E related to B in A # B \$ C @ D # E ?

1. Father-in-law
2. Son
3. Son-in-law
4. Nephew
5. Can't be determined

Direction (36-38):- Study the following information and answer the questions given below.

A # B means A is brother of B

A \$ B means A is mother of B

A @ B means A is sister of B

A * B means A is father of B

36. Which of the following shows that E is brother of A?

1. A @ B # E # D \$ C
2. A @ B * C # D \$ E
3. A # B \$ C @ E # D
4. None of these
5. More than one of the options

37. How is M related to P in M @ N # O \$ P

1. Grandmother
2. Aunt
3. Sister
4. Niece
5. Can't be determined

38. How is C related to A in A \$ B @ D * E # C

1. Nephew
2. Grandson
3. Granddaughter
4. Son
5. Either B or C

Direction (39-40):- Study the following information and answer the questions given below.

A @ B → A is father of B

A # B → A is brother of B

A \$ B → A is mother of B

A % B → A is sister of B

39. Which of the following shows that R is uncle of P?

1. R # S # Q % P
2. P \$ Q % R # S
3. R # S \$ Q # P
4. None of these
5. More than one of the options

40. How is E related to A in A @ B # C \$ D % E?

1. Maternal Aunt
2. Granddaughter
3. Nephew
4. Cousin
5. Can't be determined

Direction(41-42) : Study the following questions carefully and answer the questions given below.

Ankush walked 50 m towards north then turned left and walked 68 m. He then turned to south and walked 22 m then he took a left turn and walked 44 m. After that he turned right and walked 18 m and finally he turned left to and walked 48 m.

41. What is shortest distance between starting and end point and in which direction is Ankush from the starting point?

1. 30m, Northeast
2. 25m, Northwest
3. 26m, Southwest
4. 26 m, Northeast
5. 25 m, Southeast

42. What is the total distance travelled by Ankush in south direction during the entire journey?

1. 22 m
2. 36 m
3. 40 m
4. 48 m
5. 54 m

Directions (43-44) :- Study the following questions carefully and answer the questions given below.

Anitha and Kathir are two friends studying in the XYZ Arts College. Anitha starts walking from her house in north direction. After walking 120m, she reached the Axis Bank. Then she turns and walks 40m in north-east direction. Then she turns 90 degree clockwise direction and walks 30m to reach Kathir's house which is in the east of the Axis Bank. Then from Kathir's house both of them walk 130m in south-east direction to reach their college which is east of Anitha's house.

43. What is the shortest distance between Anitha's House and XYZ Arts College?

1. 100m
2. 110m
3. 120m
4. 130m
5. Cannot be determined

44. What is the shortest distance between Anitha's House and Kathir's House?

1. 120m
2. 130m
3. 150m
4. 160m
5. Cannot be determined

Directions (45-48) : Study the following questions carefully and answer the questions given below.

Ankush went to the market to visit eight shops – Shop-1, Shop-2, Shop-3, Shop-4, Shop-5, Shop-6, Shop-7 and Shop-8, but not necessarily in the same order. He starts from Shop-1 and walks towards Shop-3 which is at distance of 24 m towards east. He then turns left and walks 16 m to reach Shop-5. Then he walks 57 m southwest to visit Shop-2, which is towards the south of Shop-1, crossing the path which goes through the midpoint of the line joining Shop-1 and Shop-3. After visiting Shop-2, he walked 40 m

in east direction and reached Shop-7. He then walked 50 m left to reach Shop-8 and then walked 16 m right to reach Shop-4 and to reach the last shop he walked 35 m towards right.

45. What is the shortest distance between Shop-3 and Shop 6?

- | | |
|-------------------|--------------------|
| 1. $6\sqrt{87}$ m | 2. $12\sqrt{10}$ m |
| 3. $8\sqrt{24}$ m | 4. $4\sqrt{77}$ m |
| 5. $4\sqrt{89}$ m | |

46. What is the total distance travelled by Ankush in east direction?

- | | |
|------------------------|---------|
| 1. 64 m | 2. 60 m |
| 3. 85 m | 4. 80 m |
| 5. Can't be determined | |

47. What is the direction of Shop-8 with respect to Shop-5?

- | | |
|--------------|--------------|
| 1. Southwest | 2. Northeast |
| 3. East | 4. West |
| 5. Southeast | |

48. What is the direction of Shop-1 with respect to Shop-2 and the shortest distance between them?

- | | |
|------------------------------|--------------------|
| 1. Northeast, $7\sqrt{10}$ m | 2. North, 35 m |
| 3. Northwest, $7\sqrt{10}$ m | 4. Northeast, 40 m |
| 5. North, 39 m | |

Directions(49-50) : Study the following questions carefully and answer the questions given below.

In an Audi showroom there are five cars namely Audi A3, Audi A4, Audi A8, Audi A6 and Audi Q7. The colors of the cars are Black, White, Pink, Grey, and Blue respectively. All the cars were parked in a showroom facing towards north direction.

1. Audi A3 car is parked 30m to the right of White color car.
2. Blue color car is parked 70m to the south of Audi A3 car.
3. Audi A8 car is parked 40m to the west of Audi A4 car.
4. Grey color car is parked 100m to the north of Blue color car.
5. None of these

49. If a customer walks from Pink colored car, then see White colored car followed by Black, Blue and then grey colored cars. How many meters the customer walked, if he/she had walked straight distance through out the route?

- | | |
|---------|---------|
| 1. 240m | 2. 120m |
| 3. 320m | 4. 260m |
| 5. 280m | |

50. Which car is in the north-east of the car, which is to the left of Black colored car?

- | | |
|------------|------------|
| 1. Audi A4 | 2. Audi A3 |
| 3. Audi Q7 | 4. Audi A6 |
| 5. Audi A8 | |

ANSWER KEY

1. (4)	2. (4)	3. (3)	4. (4)	5. (3)	6. (2)	7. (1)	8. (4)	9. (5)	10. (3)
11. (1)	12. (1)	13. (4)	14. (3)	15. (5)	16. (1)	17. (4)	18. (5)	19. (1)	20. (2)
21. (3)	22. (1)	23. (3)	24. (5)	25. (4)	26. (1)	27. (5)	28. (3)	29. (3)	30. (3)
31. (3)	32. (3)	33. (5)	34. (2)	35. (3)	36. (1)	37. (2)	38. (5)	39. (3)	40. (5)
41. (4)	42. (3)	43. (1)	44. (2)	45. (5)	46. (4)	47. (5)	48. (2)	49. (1)	50. (4)