

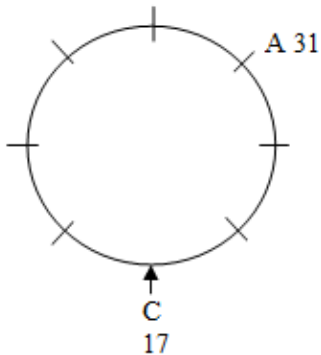
SBI Clerk/ RBI Assist. Mains – Reasoning

Explanation in detail:

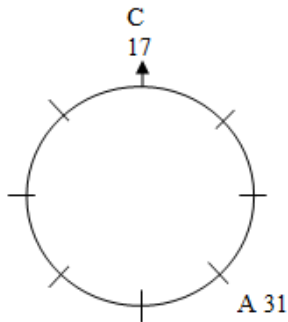
1. A is sitting third to the right of C.
2. A's age is 31 years.
3. C's age is 17 years.

From here, we have two cases (C faces inside or outside)

CASE 1



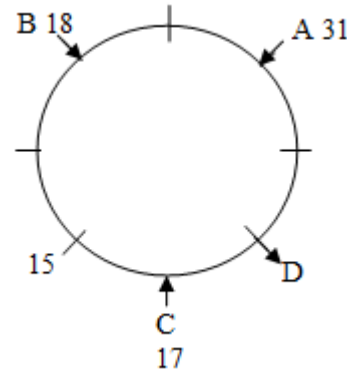
CASE 2



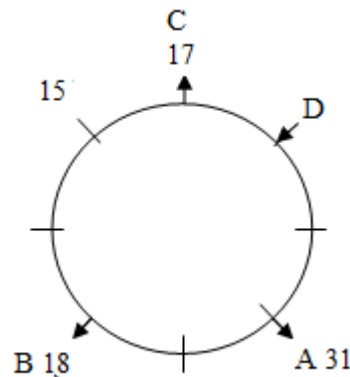
4. Three persons sit between the one whose age is 15 years and the one whose age is 31 years.
5. The one whose age is 17 years sits third to the right of the one whose age is 18 years.
6. The one whose age is 18 years sits second to right of one whose age is 31 years.
7. The one whose age is 15 years sits second to the right of D.

8. The age of D is not the 18 year.
9. There is one person sitting between A and B.
10. D is sitting fourth to the right of B.

CASE 1



CASE 2

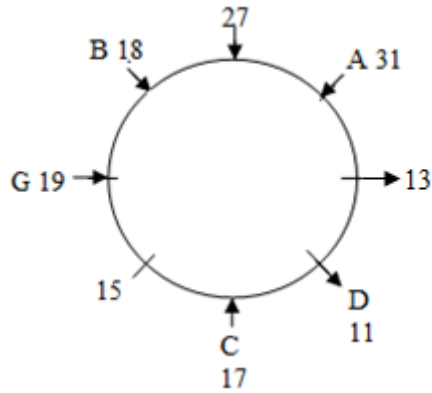


11. There are three persons sit between the one whose age is 13 years and the one whose age is 19 years.
12. The one whose age is 11 years sits third to the right of the one whose age is 19 years.
13. There is only one person sits between the one whose age is 19 years and the one whose age is 27 years.
14. G sits fourth to the right of the one whose age is 13 years.

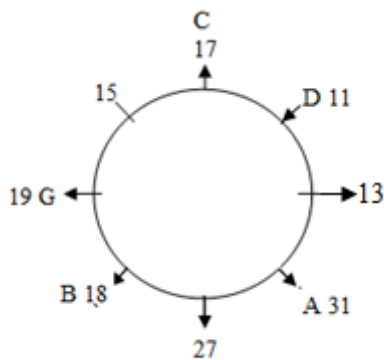
SBI Clerk/ RBI Assist. Mains – Reasoning

15. The one whose age is 15 years sits third to the right of the one whose age is 27 years.

CASE 1



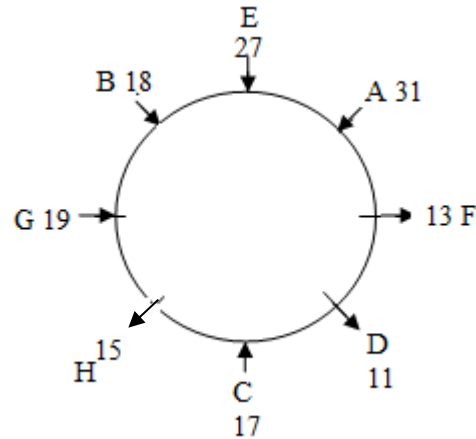
CASE 2



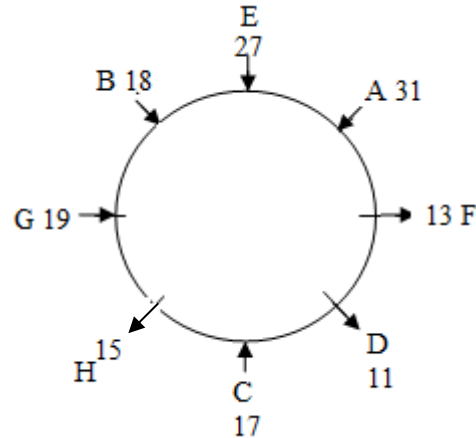
16. The one whose age is 13 years sits third to left of one whose age is 15 years and both faces the same direction.
17. F is not immediate neighbour of G.
18. There is two persons sits between D and E.
19. E's age is neither 13 nor 19 years.
20. E faces towards the Center of table.

From here CASE 2 eliminated (because we can not place E as E faces inside)

CASE 1



Final Arrangement



- 6.c
7.d
8.b
9.a
10.e

SOLUTION (11-15):

Explanation in detail:

1. The person who faces F sits third to the right of the one whose age is 36 years.
2. Only one person sits between G and H.

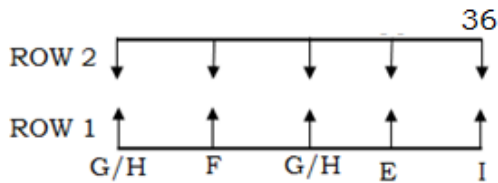
SBI Clerk/ RBI Assist. Mains – Reasoning

3. Neither G nor H faces the person whose age is 36 years.

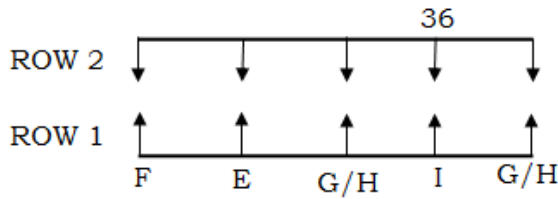
4. E sits to the left of I.

Here, we have two Cases for the person who is 36 years old and F.

CASE 1



CASE 2



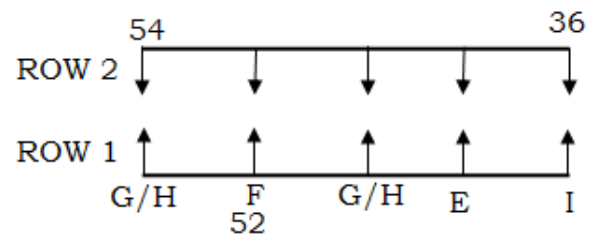
5. Four persons sit to the left of the person who is 2 years older than F and faces either G or H.

6. The person who sits third to the left of I is of 52 years old.

From here CASE 2 eliminated

(By condition 6, age of F is 52 years and the person sits at the extreme right end of row 2 becomes 54 years old and faces either G or H. Four person sit to the left of the person whose age is 54 years, faces G or H, which is not possible in CASE 2).

CASE 1



7. F is four years older than U. ($F = U + 4 \Rightarrow 52 - 4 = 48$)

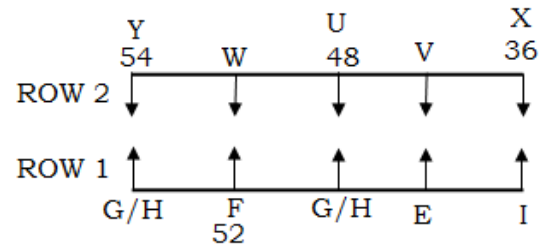
F = 52 years old, U = 48 years old

8. Either U or X is of 36 years old. ($X = 36$)

9. Only two persons sit between W and X.

10. Only one person is sitting between U and Y

CASE 1



11. G is six years older than Y. ($G = Y + 6 \Rightarrow 54 + 6 \Rightarrow 60$)

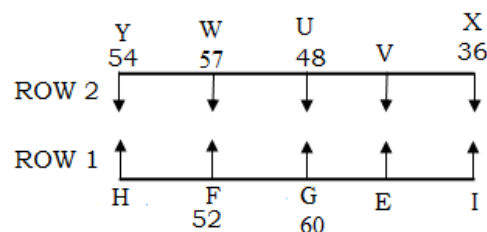
12. The age of W is between the ages of Y and G.

Y	W	G
54	57	60
	(multiple of 3)	

The persons sitting to the left of F are younger than W.

(It means H sits to the immediate left of F)

CASE 1



SBI Clerk/ RBI Assist. Mains – Reasoning

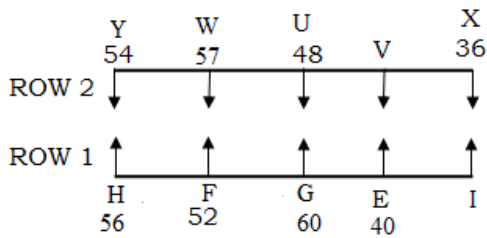
13. The difference between the ages of E and W is 17 years.

$$\begin{array}{r} \text{E} \xrightarrow{\text{difference}} \text{W} = 17 \\ 40 \quad \quad 57 \\ \hline 74 \quad \quad 57 \end{array}$$

Age of E cannot be 74 years old because it is not a multiple of 4.

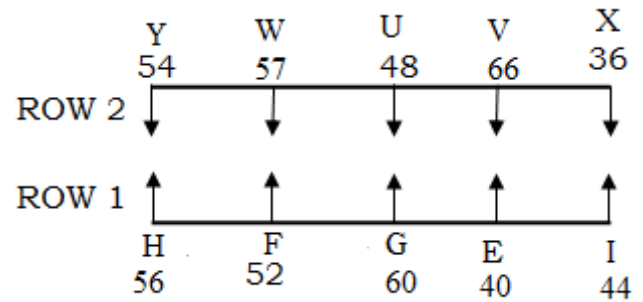
14. Sum of the ages of H and Y is 110 years.

$$\begin{array}{l} H + Y = 110 \\ 56 + 54 = 110 \end{array}$$

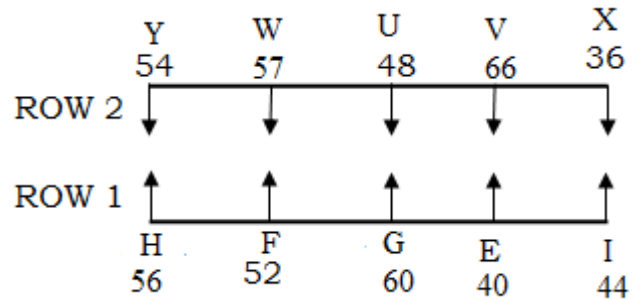


15. The sum of the ages of V and I is equal to the sum of the ages of H and Y. ($V + I = 110$)
16. The age of I is a multiple of 11. (here only possible value for I is 44 because it is also divisible by 4)

$$\begin{array}{l} V + I = 110 \\ 66 + 44 = 110 \end{array}$$



Final Arrangement



11.e

12.c

13.a

14.b

15.d

SOLUTION (16-20):

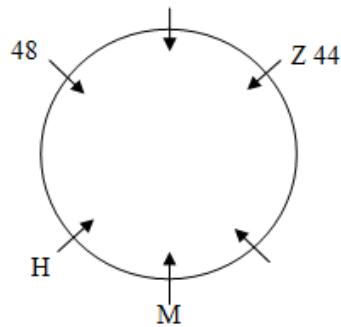
Explanation in detail:

Person G, H, I, J, K and L

Countries V, W, X, Y, Z and M

- The one whose age is 48 years is seated second to the left of the person who is from country M.
- Person from country Z sits second to the right of the person from country M.
- H is seated opposite to the person who is from country Z whose age is 44 years

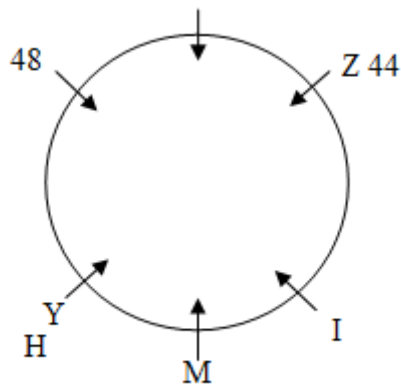
SBI Clerk/ RBI Assist. Mains – Reasoning



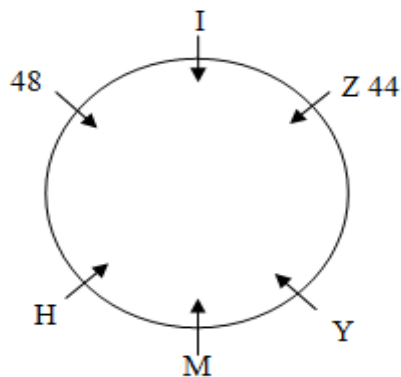
4. I is seated second to the right of the person who is from country Y.
5. G and I are not from country M.

There are two cases for Y and I

CASE 1



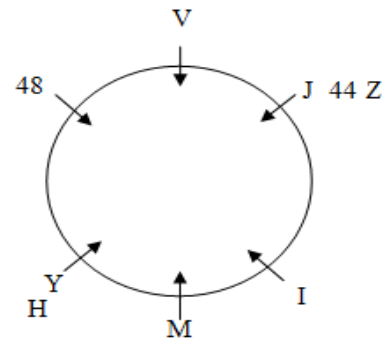
CASE 2



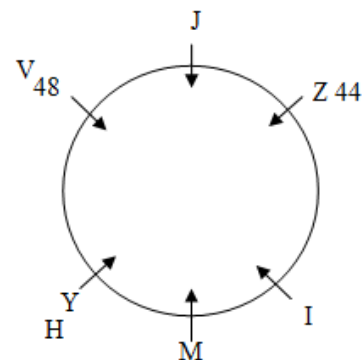
6. V sits to the immediate right of J.
7. There is only person between the person who is from country M and Z but he is not from country V.

Here 1 more cases for CASE 1 and CASE 2

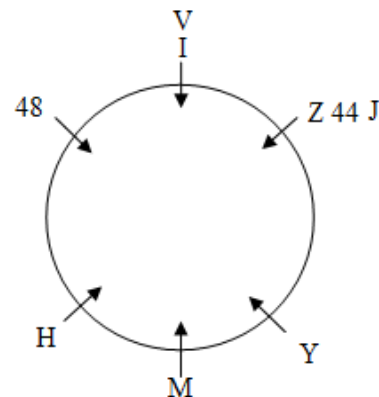
CASE 1a



CASE1b

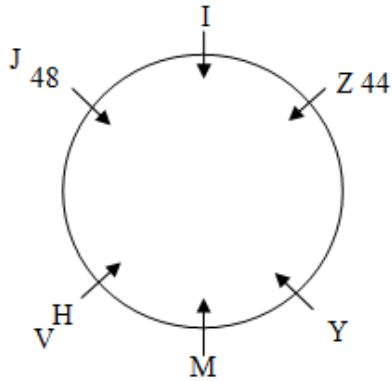


CASE 2a



SBI Clerk/ RBI Assist. Mains – Reasoning

CASE 2b



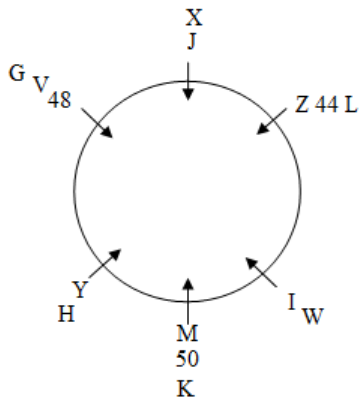
8. The person whose age is 50 years is seated second to the right of G.
9. L sits to the immediate left of the person who is from country X but not near to G.
10. The person from the country V is not seated near to the person from the country W

From here CASE 1a eliminated (because W is always nearer to V which is not possible)

CASE 2a also eliminated (because we can not place X and L)

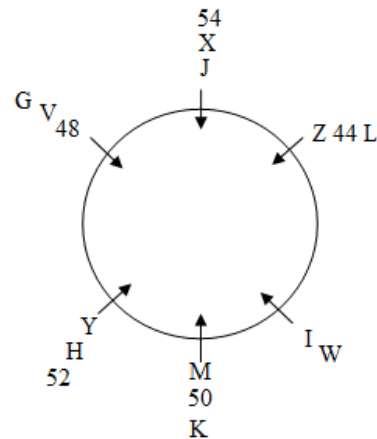
CASE 2b also eliminated (because we can not place X and L also G is not placed)

CASE 1b

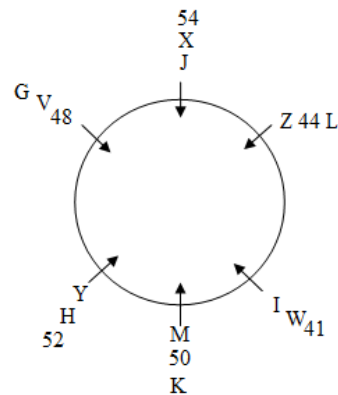


11. The person whose age is 52 years is not seated near to the one whose age is 44 years.
12. The one whose age is 54 years is not I.

CASE 1b



Final Arrangement



16.d

17.d

18.c

19.a

20.a

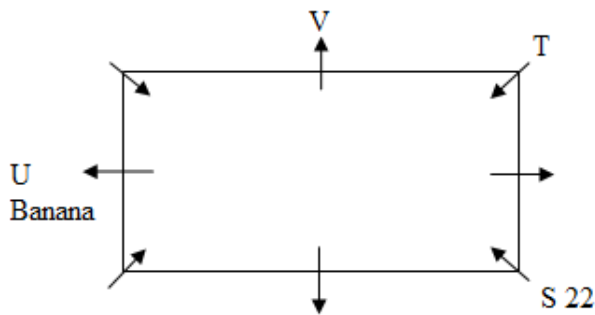
SOLUTION (21-25):

SBI Clerk/ RBI Assist. Mains – Reasoning

Explanation in detail:

1. S sits third to the right of V.
2. S's age is 22 years old.
3. S faces inside the center.
4. U is not an immediate neighbour of S
5. Only two persons sit between U who likes Banana and T who faces inside the center.

From here it is clear that U sit at the middle of the side



6. Q sits at the corner and likes Guava Fruit.
7. Only two persons sit between Q and the one whose age is odd number greater than 24 years.(25/27)
8. The person who likes Apple fruit was 25 years old.
9. V neither likes Grapes nor Apple.
10. R faces inside the center
11. Q's age is odd number.(Q = 21, 23, 25, 27)

From here we can find Q's age i.e 27,

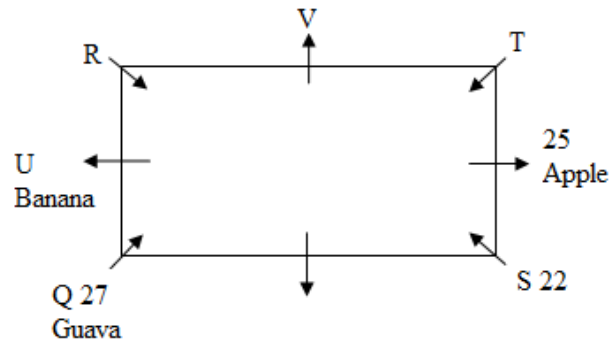
21 notpossible → Mango

23 notpossible→ Litchi

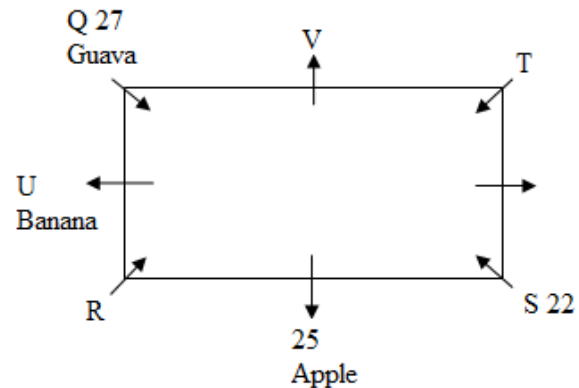
25 notpossible → Apple

Now three cases for Q

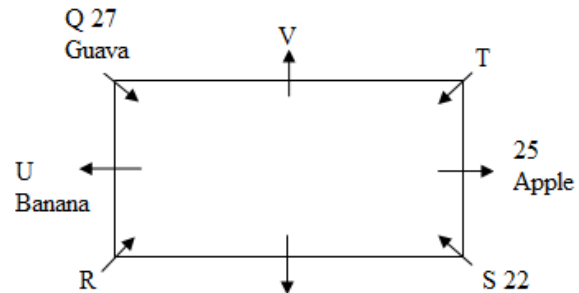
CASE 1



CASE 2a



CASE 2b

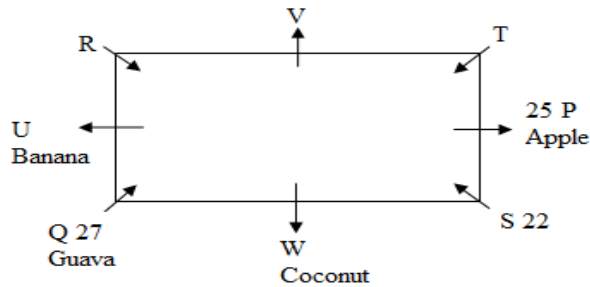


12. P sits second to the left of W who likes Coconut.

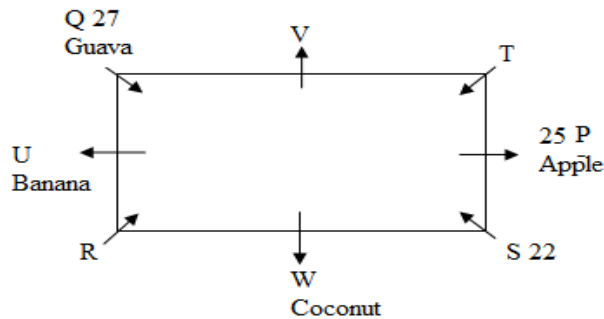
From here CASE 2a eliminated (we can not place W)

CASE 1

SBI Clerk/ RBI Assist. Mains – Reasoning

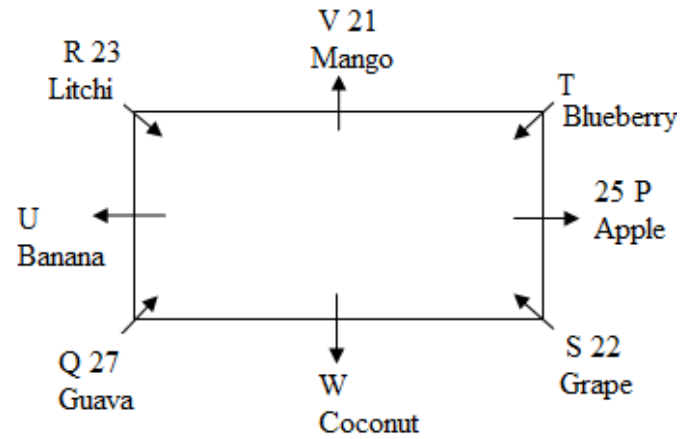


CASE 2b

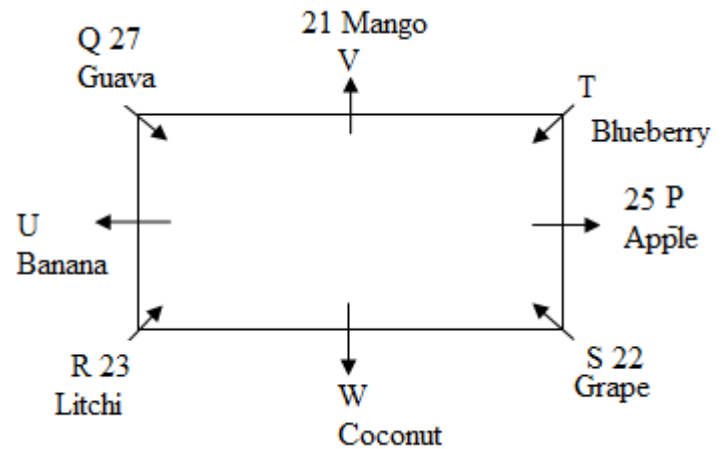


13. The one whose age is 23 years likes Litchi fruit and faces centre and not immediate left of U.
14. Neither R nor P likes Grapes fruit
15. The one who like Blackberry fruit sits second to the right of the one who likes Grapes fruits.
16. The youngest person likes Mango fruit and W is not the oldest person.

CASE 1



CASE 2b



From here CASE 2b eliminated as 23 years person does not sit to the left of U

17. T is 2 years older than U.

18. W is not the oldest person.(remaining ages 24, 26)

So from CASE 1

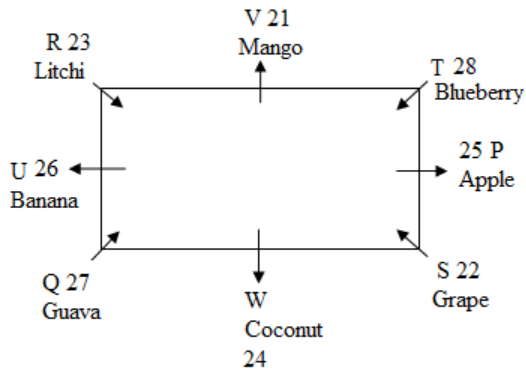
$$T = U + 2$$

$$28 = 26 + 2$$

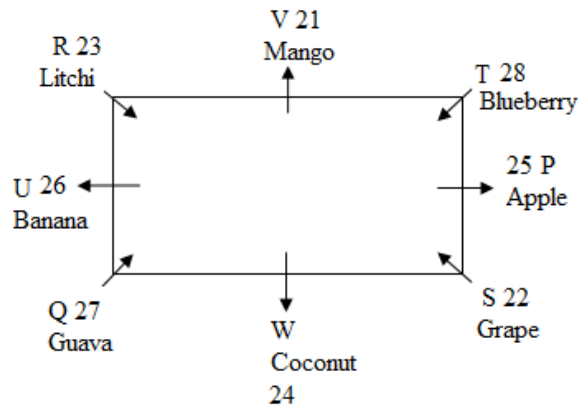
$26 = 24 + 2$ (Not possible because here W age is 28 which is not possible as per given statement so W is 24)

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Final Arrangement



21. e

22. a

23. b

24. d

25. c

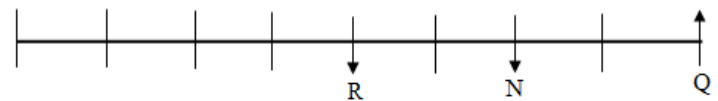
SOLUTION (26-30):

Explanation in detail:

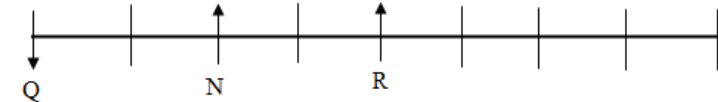
1. R sits in the middle of the row, and one person sits between N and R.
2. Q sits second to left of N, and faces opposite direction with respect to both R and N.

There are two cases for N here

CASE 1



CASE 2

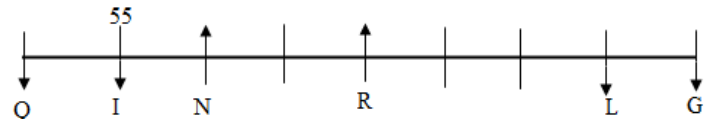


3. G and L both are immediate neighbours of each other and one of them sits at any extreme end of row and both face same direction with respect to Q.
4. Number of persons sitting between L and R & I and R is same. (So G sits at the extreme end)
5. The person who is 55 years old sits sixth to right of L
6. I face opposite direction with respect to both M and N

CASE 1

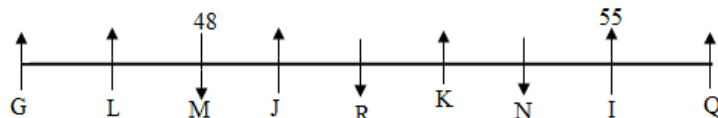


CASE 2



7. Not more than 3 persons are facing south direction
Here CASE 2 eliminated.
8. M and J are immediate neighbours of each other.
9. M, who is 48 years old sits third to left of K.

CASE 1



SBI Clerk/ RBI Assist. Mains – Reasoning

10. difference between M and J's ages is one year and the age of one of them is a perfect square of a number which is more than 5. (Age of J = $48 + 1 = 49$ years old which perfect square of 7.)

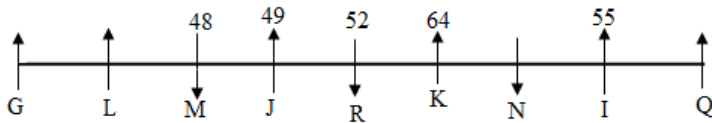
11. R's age is 3 years more than J

12. The age of both of the neighbours of R is a perfect square number

13. One person sits between I and the one whose age is a perfect square of a number which is more than 6.

14. (By following the above conditions, age of K become 64 which is perfect square of 8.)

CASE 1



15. Difference between the ages of N and L is 5 years and L is older than N, who is 2 years younger than I.

Age of N = $55 - 2 = 53$ years old.

Age of L = $53 + 5 = 58$ years old

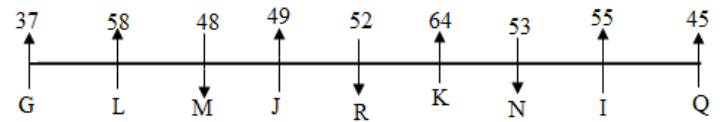
16. Number of persons sitting between the one whose age is 37 and one who is sitting immediate right of R is one more than number of persons sitting between G and M.

17. Q's age is 10 years less than his neighbour. (Q's age is 45 years)

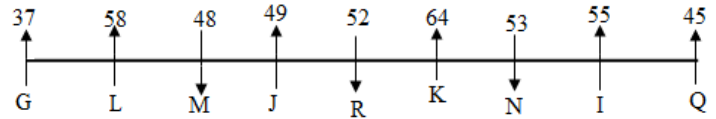
18. G is youngest among all nine members.

Youngest age mention in the question is 37 years old, so the age of G becomes 37 years old.

CASE 1



Final Arrangement



26.c

27.e

28.d

29.b

30.c

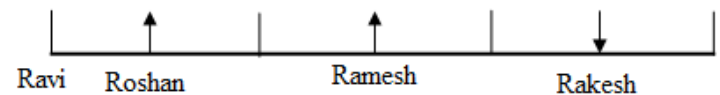
SOLUTION (31-35):

Explanation in detail:

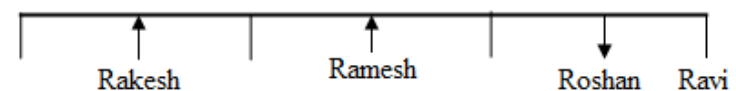
1. Ramesh is facing north and sits second to the right of both Roshan and Rakesh
2. Ravi is an immediate neighbour of Roshan but not an immediate neighbour of Ramesh.
3. Rahul and Rakesh doesn't sit at an extreme end of the line.

There are two Cases for Roshan and Ramesh

CASE 1



CASE 2



SBI Clerk/ RBI Assist. Mains – Reasoning

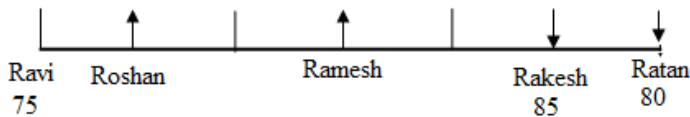
4. Ratan is facing south and his age is multiple of 5.
5. Difference between the ages of Ravi and Rakesh is 10.
6. The person who is oldest doesn't sit at an extreme end of the line.

(As per above condition, only three ages i.e. 75, 80 and 85 are multiples of 5 but 75 and 85 is the only pair which has a difference of 10 that is useful for the ages of Ravi and Rakesh. Hence, the age of Ratan becomes 80 years old.)

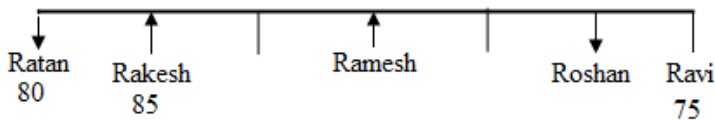
Ratan sits at an extreme end of the line because Rahul does not sit at an end and Rishab is an immediate neighbor of Ramesh, so we have only one place remaining for Ratan.

$$\begin{aligned} \text{Ramesh} - \text{Ravi} &= 10 \\ 85 - 75 &= 10 \\ \text{Ravi's age is 85 not possible} \\ &\text{because he sits at end.} \end{aligned}$$

CASE 1



CASE 2

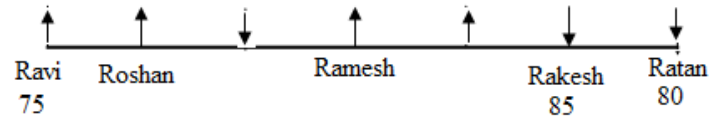


7. The sum of the ages of the person who sits at right end of the row and his neighbour is at least 160

From here CASE 2 eliminated because in right end 75 is there and we can not make sum 160 using 75

8. Not more than two consecutive persons are facing the same direction
9. The immediate neighbours of Roshan are facing opposite directions.

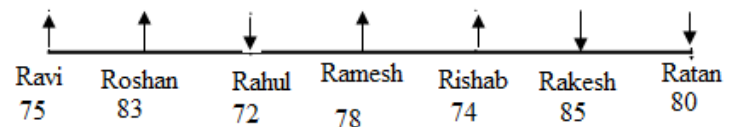
From here we can find direction of all the person here



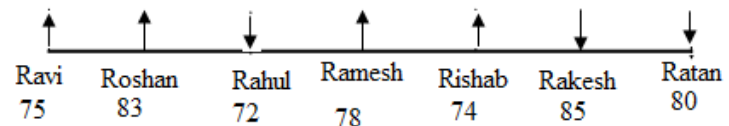
10. Difference between the age of Ramesh and Rishab is 4

$$\begin{aligned} \text{Ramesh} - \text{Rishab} &= 4 \\ 74/78 - 74/78 &= 4 \end{aligned}$$

11. The second eldest and youngest person are next to each other.(means 83 and 72 immediate neighbor)
12. The difference between the ages of Rakesh and the person who sits immediate right of Rakesh is at least 10 (From here clear that Ramesh age is 78 and Rishab age is 74)
13. Rahul is facing in south and he is youngest among all.



Final Arrangement



31.c

32.c

SBI Clerk/ RBI Assist. Mains – Reasoning

33.d

34.a

35.b

SOLUTION (36-40):

Explanation in detail:

1. Immediate neighbours of E are seventeen and twenty years old.
2. E is not the youngest person.
3. H is one year older than the person who sits to the immediate left of E.
4. Age of E is equal to the number obtained by reversing the digits of H's age.

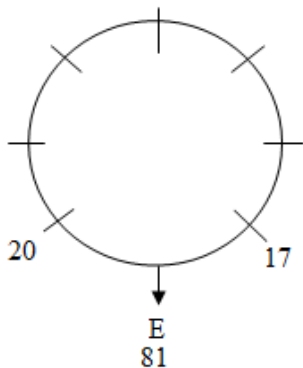
From here we can find H's age.

The person who is immediate left E is either 17 or 20.

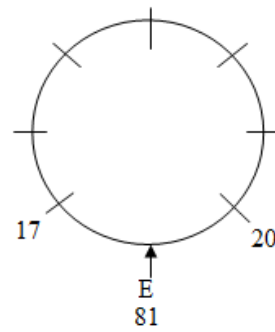
H's age is 18 or 21 years and it is given that E's age is reverse of H's age so E's age is either 12 or 81. E is not youngest so 12 is not possible Hence E's age is 81 and H's is 18.

There are two Cases for E-

CASE 1



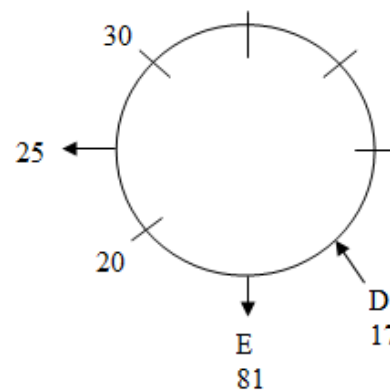
CASE 2



5. E sits to the immediate left of D
6. D is seventeen years old and faces the person who was born in 1990. $(2020 - 1990 = 30)$
7. The person who is twenty-five years old is facing outwards and is an immediate neighbor of the person who is twenty years old.

From here we can find the direction of D which is towards the center because D faces 30 years old person.

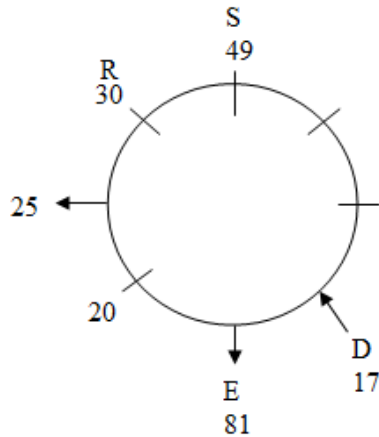
Case 2 was eliminated because D's face is outside to make sit E left of D.



8. R is an immediate neighbor of the persons who is forty-nine years old and the person who was born in 1995 (25 years)

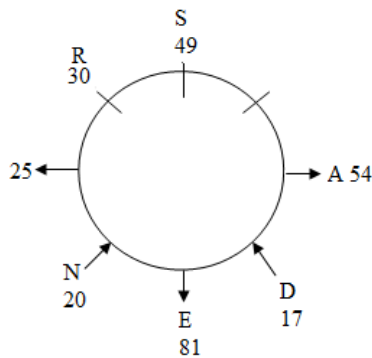
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9. S's age is Forty-nine years old.



10. N faces center of the table and sits third to the right of A

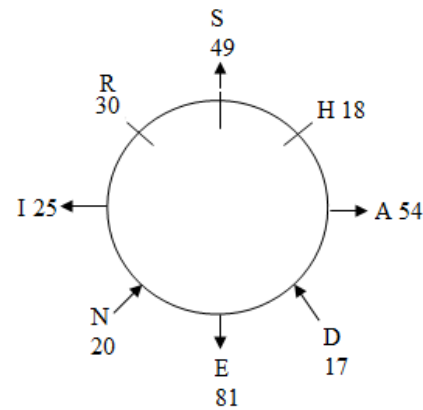
11. A was born in 1966 ($2020 - 1966 = 54$ years old)



12. We have found earlier that H's age is 18 so remaining place allot to I and his age becomes 25 years.

13. S does not sit second to the left of I

14. The person who sits second to the left of I is facing the same direction as the person who was born in 1971 (49 years). By this, S faces outside the circle.



15. In given instructions, 4 persons face inside and 4 persons face outside the circle.

Final Arrangement

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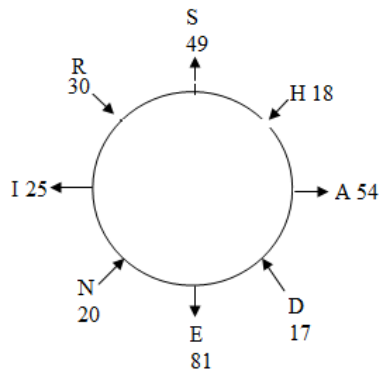
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Person	Age	Born year (2020)
A	54	1966
D	17	2003
E	81	1939
N	20	2000
I	25	1995
R	30	1990
S	49	1971
H	18	2002

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36.c

37.b

38.b

39.a

40.b

SOLUTION (41-45):

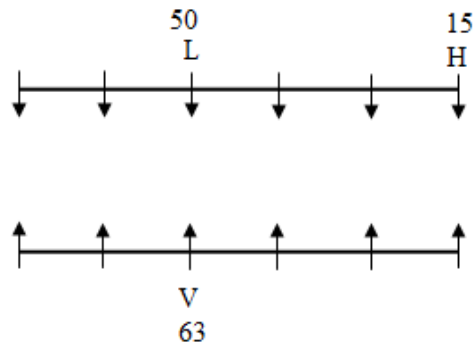
Explanation in detail:

1. V is 63 years old and sits third from the extreme end of the row.
2. There are two persons sit between L and H who is the youngest person among the group. (H = 15 years old)
3. L's age is twice that of Q and sits opposite to V.
(Only the pair 25 and 50 is there which satisfies the condition of twice the another number. It means if age of Q is 25 years old then only by the given set of ages, age of L becomes 50 years old.)

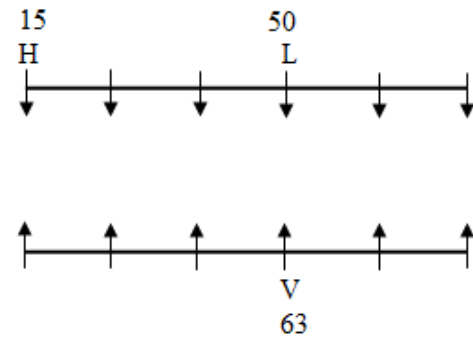
$$L = 2 * Q$$
$$50 = 2 * 25$$

There are two cases for V here

CASE 1



CASE 2

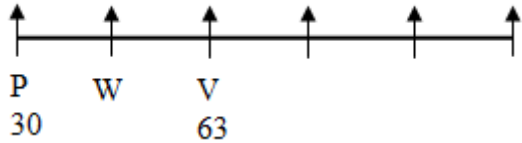
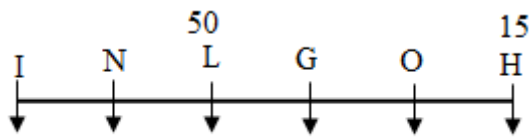


4. N sits to the immediate left of I.
5. P is 20 years younger than L and sits opposite to I. ($P = L - 20 \rightarrow 50 - 20 = 30$) P = 30 years old.
6. G sits second to the left of the one who is opposite to W.

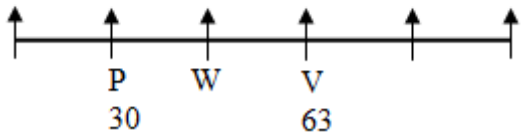
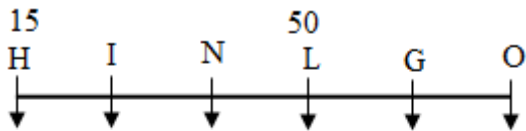
Form here one more case of CASE 2

CASE 1 (I and N are not possible between L and H because we can not place G)

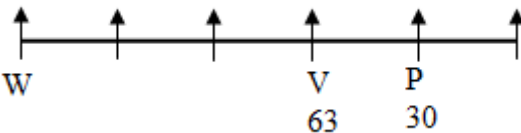
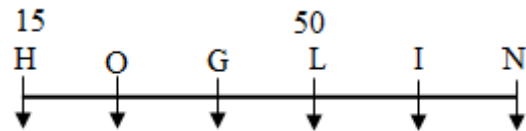
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CASE 2a



CASE 2b



7. G is elder than U

8. The age of G and U is a square number below 50.

Here for G and U two possibilities i.e 49 and 36.

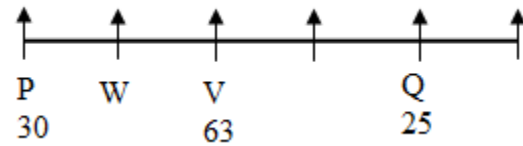
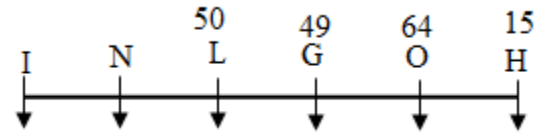
G is elder than U so G = 49 years old, U = 36 years old.

L's age is twice that of Q. (L = 50, Q = 25)

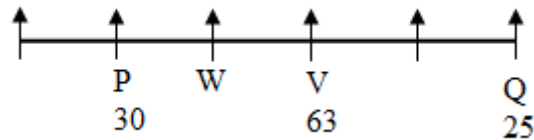
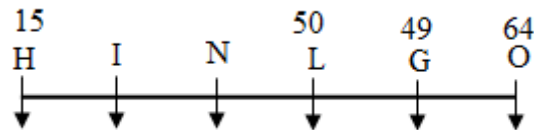
9. Q sits opposite to the one whose age is 64 years.

10. N is not 64 years old.

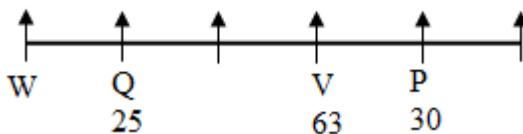
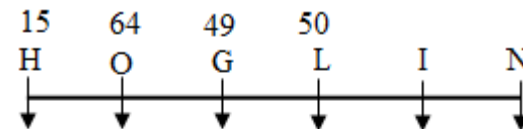
CASE 1



CASE 2a



CASE 2b

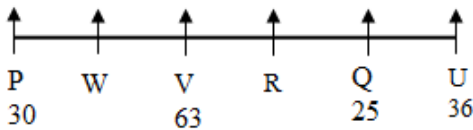
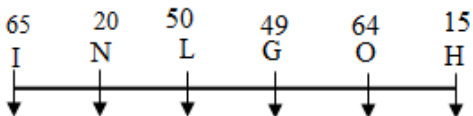


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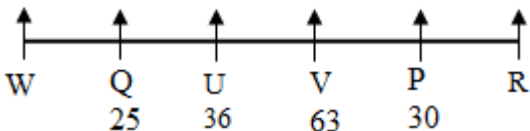
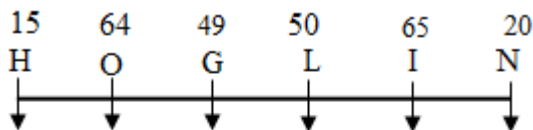
11. The number of persons sits to the right of O is one less than that of the number of persons sits left of the one whose age is 36 years.
12. The one whose age is 65 years sits to the immediate right of the one whose age is 20 years old.
13. I's age is a multiple of 5. (Age of I is 65 years old.)

From here CASE 2a eliminated because it does not satisfy the 11th condition.

CASE 1



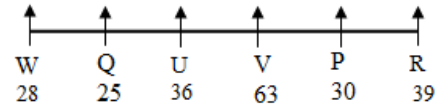
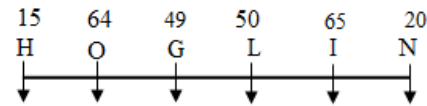
CASE 2b



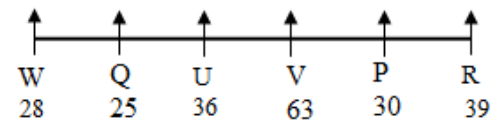
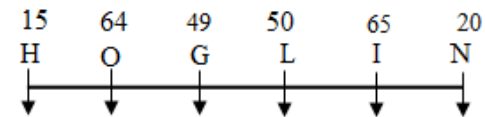
From here Case 1 is eliminated because it is given that:
The persons whose age are in even numbers are not sit adjacent to each other and the person whose age is the odd numbers are not sit adjacent to each other.

14. R is elder than U.
15. Q is younger than W.

CASE 2b



Final Arrangement



41. d

42.d

43.a

44.d

45.b

SOLUTION (46-50):

Explanation in detail:

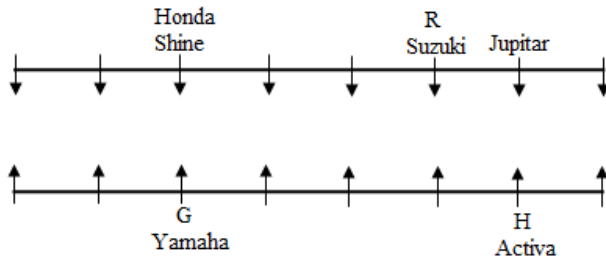
1. R likes Suzuki and sits third from the left end.
2. H sits fourth to the right of G and likes Activa.
3. Neither H nor G sits at the extreme ends of the row.
4. The one who likes Yamaha sits opposite to the one who sits fourth right of the person who sits opposite to H.

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5. The one who likes Yamaha faces the one who likes Honda Shine.

6. The one who likes Jupitar faces the one who likes Activa

From here it is clear that only one place for G and H.



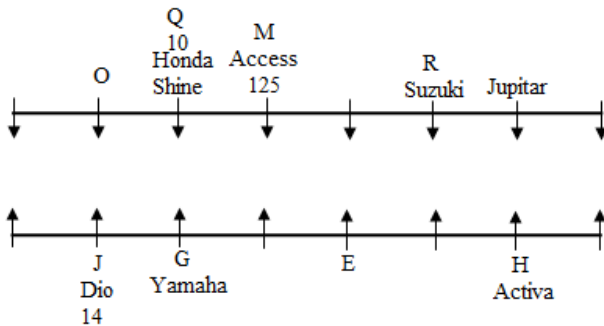
7. J sits third to the left of E and 14 years old

8. O faces J

9. Q is 10 years old and is an immediate neighbor of O and M.

10. M likes Access 125.

11. J likes Dio



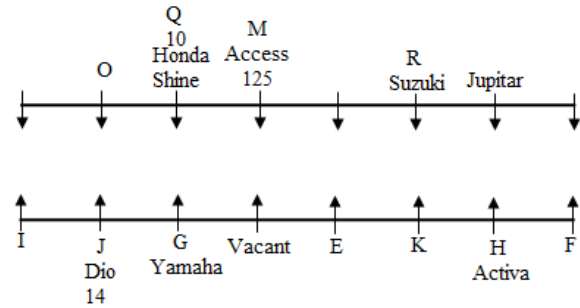
12. F sits at one of the extreme ends of the row 2.

13. F is not an immediate neighbor of J. (From here it is clear that F sits at right end)

14. Only three people sit between F and the vacant seat.

15. I, who likes neither Pulsar nor Platina nor KTM and do not, face R.

16. K and H are immediate neighbor.



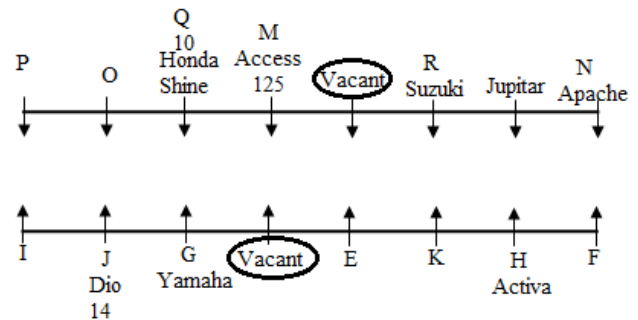
17. Three seats are there between N and M who sits fourth right of the one who likes Apache.

18. Vacant seat present in row 1 is not an immediate neighbor of person O.

19. Vacant seats are not opposite to each other.

20. P is not an immediate neighbor of N.

21. N is not an immediate neighbor of O.



22. The age of L, G and H is the square of the age of O, P and L respectively.

23. Neither O nor H is 4 years old.

24. The person who likes Splendor is 3 years old.

25. The age of P is the half the age of I.

26. The person who likes the Splendor and Jawa are adjacent to each other.

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$$L = (O)^2$$

$$G = (P)^2$$

$$H = (L)^2$$

Here 4, 9, 16 is square of 2, 3, 4 So we can take

O = 2, P = 3

We cannot take any other value for O because square of O is L and Square of L is H

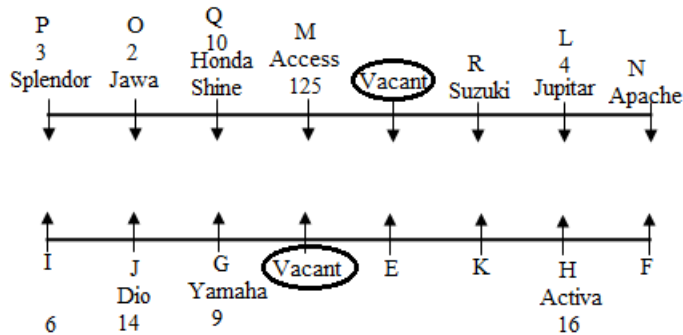
We get

$$L = (2)^2 = 4$$

$$G = (3)^2 = 9$$

$$H = (4)^2 = 16$$

P = 1/2 I → I = 6 and P = 3

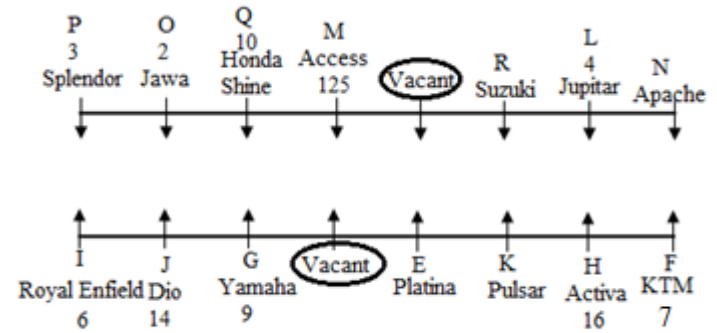


27. K neither likes Platina nor Activa.

28. F does not like Pulsar or Platina. Means F like KTM

29. The persons who sits at the extreme end of the line have ages in consecutive order

30. I neither likes Pulsar nor Platina nor KTM. Means I like Royal Enfield.



31. The difference between the age of M and N is 3.

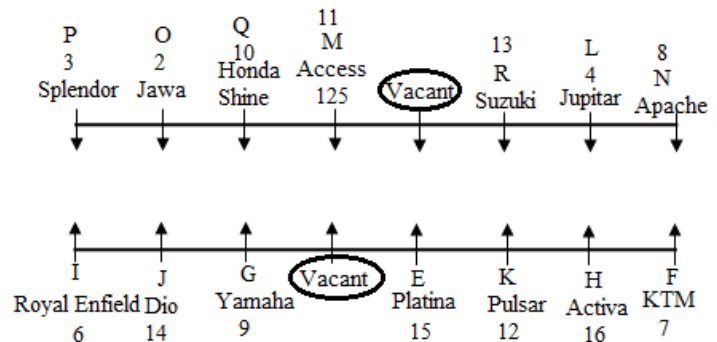
$$\begin{array}{ccc} M & N & = 3 \\ 11 & 8 & \\ 15 & 12 & \text{(not possible)} \end{array}$$

because M is younger than K)

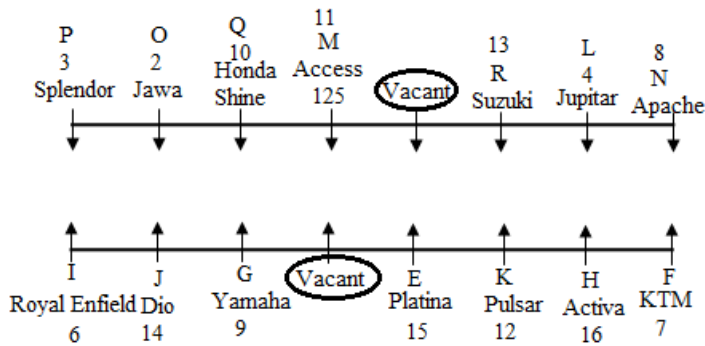
32. Both the neighbors of vacant seat in both rows have age in odd number.(means E, R and M have odd number age)

33. K is older than M but younger than R who is younger than E.

$$E > R > K > M$$



Final Arrangement



46.d

47.a

48.e

49.b

50.c

Seating Linear with Blood Relation

Directions (1-5): Answer the questions based on the information given below: (4 statements added)

A family of eight members - S, T, U, V, W, X, Y and Z are seated in a straight line with an equal distance between them, but not necessarily in the same order. Some of them are facing north and some are facing south. This family is having three generations. The immediate neighbors of X face same directions. Both W and T face a direction opposite to that of V. W is the only daughter of U. Z is female member. U's granddaughter does not sit at an extreme end of the line. S's mother sits on the immediate left of her son. U's wife is not an immediate neighbor of W. The immediate neighbors of W's brother face opposite directions. The persons sitting at the extreme ends face opposite directions. Z's daughter-in-law sits second to the left of W's father-in-law. X faces north. X is not an immediate neighbor of V's aunt. U's daughter is an immediate neighbor of one who is sitting at an extreme end of the line. Only three people sit between Y and his wife. T's daughter sits second to the right of S's brother-

in-law. Z is married to U. Y is the son-in-law of Z. Y's only brother-in-law is married to T. T's sister-in-law's father-in-law is X. V's father is not Y.

1. What is the position of V with respect to her grandmother?

- (a) Third to right
- (b) Second to left
- (c) Third to right
- (d) Four to the left
- (e) Cannot be determined

2. What is the position of S with respect to his sister?

- (a) Fifth to right
- (b) Immediate left
- (c) Third to right
- (d) Second to left
- (e) Immediate right

3. How is V related to W?

- (a) sister
- (b) Niece

- (c) Daughter
- (d) Sister-in-law
- (e) Cannot be determined

4. Who is the husband of T?

- (a) brother of Y
- (b) Father of V
- (c) Grandfather of X
- (d) Son of W
- (e) Father of Z

5. How is Z related to V?

- (a) sister
- (b) Aunt
- (c) Mother
- (d) Mother-in-law
- (e) Grandmother

Directions (6-10): Answer the questions based on the information given below: (4 statements added)

There are nine members in a family – A, B, C, D, E, F, G, H, I. They all are sitting in a straight line from left to right. All of them have a relationship with A. Some of them are facing north and others are facing south. The following information is known about them:

E who is the father of A is sitting to the immediate of G's wife. A's wife is sitting immediately left of B who is sitting at 5th position from left end of row (when seen in north direction). C is sitting fourth to the right of A's father. A is sitting 3rd to the right of D, who faces south. Mother and brother of A are facing the same direction and both of them are sitting together with one of them at an

extreme end of the line. Daughter of A is sitting 2nd to the right of the mother of A. I is sitting facing south direction which is opposite of what A's daughter is facing. The immediate neighbors of A's daughter are facing same direction as I. From nine members, one is son of A. There is one person sitting between A and G and they both are facing opposite directions. H faces north and only two persons are sitting to the right of H, who is A's sister. D is sitting between H and B. G faces north. H and C are not neighbors.

6. What is the position of D with respect to F?

- (a) Third to right
- (b) Second to left
- (c) Third to right
- (d) Fourth to right
- (e) Cannot be determined

7. What is the position of C with respect to her brother?

- (a) Second to right
- (b) Immediate right
- (c) Third to right
- (d) Second to left
- (e) Immediate left

8. How is I related to A?

- (a) sister-in-law
- (b) Niece
- (c) Daughter
- (d) Sister
- (e) Cannot be determined

9. Who is one of the brothers of H?

- (a) Brother of E
- (b) Father of G
- (c) Father of B
- (d) Son of I
- (e) Cannot be determined

10. How is F related to A?

- (a) sister
- (b) Aunt
- (c) Mother
- (d) Mother-in-law
- (e) Cannot be determined

Directions (11-15): Answer the questions based on the information given below: (2 statements added)

There are eight members J, K, L, M, N, O, P and Q. Each of them is related to J in some way or the other and all are sitting in a straight line facing north, but necessarily in the same order.

N is sitting second to right of J's son. Two people are sitting between N and K's brother. Two people are sitting between J's son and J's father. J's brother is sitting second to left of J. Two people are sitting between M and J's sister. J is not an immediate neighbor of N. Q's father is sitting to the immediate right of J's daughter. J's wife is immediate neighbor of Q. P is younger than L. O is an immediate neighbor of J's father. O is sitting at one of extreme ends. M and J's brother are sitting together. O is married to L.

11. Who is to the immediate left of daughter of L?

- (a) M
- (b) P
- (c) K
- (d) J
- (e) None of these

12. Who sits second to the left of grandson of L?

- (a) O
- (b) L
- (c) Q
- (d) M
- (e) None of these

13. Who is sitting third to the left of N?

- (a) J
- (b) Q
- (c) L
- (d) P
- (e) None of these

14. Who is sitting second to the right of daughter of M?

- (a) O
- (b) J
- (c) P
- (d) L
- (e) None of these

15. What is relation between K with respect to O?

- (a) Son
- (b) Uncle
- (c) Daughter
- (d) Father

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(e) None of these

Directions (16-20): Answer the questions based on the information given below: (some edited & 3 statements added)

Eight people of a family A, B, C, D, E, F, G and H are sitting in a row some facing north direction and some facing south direction but not necessarily in the same order.

H is a grandmother of G and C is a son in law of B who has two daughters. There is only one married couple in a family of which the wife is sitting third to the left of her husband. E's maternal grandfather is sitting second from one of the ends. E, who is a female and E's maternal grandfather have at least one child, but both of them does not have spouse. A has only one brother, who is a grandfather of F. C is not an immediate neighbor of G. Both the immediate neighbors of E face south. Immediate neighbors of G face opposite direction. A and D face the same direction as E. D is sister in law of C. Only three people sit between A and G. E sits exactly between A and G. Both the sister in laws are sitting at the ends. H sits third to the right of E. B is an immediate neighbor of H and faces south. A sits at one of the extreme ends of the line. C sits second to the right of F. Youngest person is a male.

26. What is the position of H with respect to E?

- (a) Third to right
- (b) Second to left
- (c) Third to left

(d) Fourth to right

(e) Cannot be determined

27. What is the position of A with respect to father of E?

- (a) Second to right
- (b) Immediate left
- (c) Third to right
- (d) Second to left
- (e) Immediate right

28. How is E related to A?

- (a) sister
- (b) Niece
- (c) Daughter
- (d) Sister-in-law
- (e) Cannot be determined

29. Who is the husband of G?

- (a) A
- (b) F
- (c) D
- (d) C
- (e) Cannot be determined

30. How is G related to F?

- (a) sister
- (b) Aunt
- (c) Grandmother
- (d) Mother-in-law
- (e) Cannot be determined

Directions (21-25): Answer the questions based on the information given below: ((1 statement added)

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Five person of different age of two generations live in a family. They have different designations i.e. CEO, COO, GM, AM, BM and they are sitting in a line facing north direction in the above order of designations from left to right.

Two persons sit between the persons, whose ages are 40 and 44 years. Difference of the age of E and D is 4 years less than the age of the person who is CEO. D is unmarried and is sister in law of C. A is the father in law of the person who is CEO. Husband of E is COO, and he does not have even numbered age. Age of the person who sits immediate right of the person whose age is 40 is 71 years. Average age of A, E and D is 55 years. There are as many persons sitting to the left of A as to the right of the only son of E. Person who is BM is the sibling of B and both sit next to each other. CEO is younger than AM.

21. Who is to the immediate left of the one who is COO?

- (a) D
- (b) E
- (c) A
- (d) B
- (e) C

22. Who sits second to the left of son of A?

- (a) C
- (b) E
- (c) A
- (d) D
- (e) None of these

23. Who is sitting third to the left of the one, whose is 29 years?

- (a) A
- (b) D
- (c) E
- (d) B
- (e) None of these

24. Who is sitting second to the right of daughter in law of E?

- (a) C
- (b) D
- (c) A
- (d) B
- (e) None of these

25. What is relation of E with respect to the one whose age is 71 years?

- (a) Son
- (b) Wife
- (c) Daughter
- (d) Father
- (e) None of these

Directions (26-30): Answer the questions based on the information given below:

There are nine members A, B, C, D, E, F, G, H and I in a family of four generation having three married couples. They all sit in a row facing north direction but not necessarily in the same order. E is only married child of A. E sits second to the right of C. A's brother in law sit at the extreme right end. G has two sons. G is an immediate

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neighbor of B. C and H both are siblings. Only one person sit between F and E's child who is an immediate neighbor of H. H and I is unmarried. G is mother in law of A. Sister in law of D sits fourth from the extreme end. E's father sits to the immediate right of I's aunt. Daughter in law of A sits second to the left of G who is married to F. B is daughter of A.

26. What is the position of B with respect to D?

- (a) Third to left
- (b) Second to left
- (c) Third to right
- (d) Fourth to right
- (e) Cannot be determined

27. What is the position of F with respect to father of I?

- (a) Second to right
- (b) Third to right
- (c) Immediate left
- (d) Second to left
- (e) Immediate right

28. How is I related to C?

- (a) sister
- (b) Niece
- (c) Daughter
- (d) Sister-in-law
- (e) Cannot be determined

29. Who is the husband of one who sits immediate left of A?

- (a) G

(b) E

(c) F

(d) C

(e) B

30. How is G related to A?

- (a) sister
- (b) Daughter-in-law
- (c) Grandmother
- (d) Mother-in-law
- (e) Cannot be determined

Directions (31-35): Answer the questions based on the information given below:

Eight persons of a family J, K, L, M, N, O, P and Q sit in a linear row and all face in north direction but not necessarily in the same order. There are three married couples in the family. P is grandchild of N and sits to the immediate right of O's Mother. J has two children. O is not sister in law of L. M is younger than K who is spouse of J. J is not a female member of the family. J and O's mother in law does not sit next to each other. K is not mother in law of O. Two person sit between K and P's father who sits at one of the extreme ends. O is mother of P and sits third to the left of her own sister. O's mother in law is the only neighbor of M's father. L is aunt of P. Q is grandfather of P but not father of O. K sits exactly in between O's father and L.

31. Who sits to the immediate left of husband of K?

- (a) M
- (b) Q

- (c) O
- (d) N
- (e) L

32. Who among the following son of Q?

- (a) N
- (b) J
- (c) O
- (d) L
- (e) M

33. Who sits third to the left of N?

- (a) M
- (b) J
- (c) Q
- (d) L
- (e) K

34. Who sits immediate left to daughter in law of N?

- (a) M
- (b) J
- (c) K
- (d) Q
- (e) P

35. How many persons sit between daughter in law of Q and spouse of N?

- (a) One
- (b) Four
- (c) Six
- (d) Two
- (e) Three

Directions (36-40): Answer the questions based on the information given below: (fully edited & 3 statements added)

Eight members A, B, C, D, E, F, G and H are sitting in a row facing north direction but not necessarily in the same order. They buy different items Mug, Bag, Bottle, Desk, Clock, Brush, Pen and cup but not necessarily in the same order.

There is only one person sit between C and A, who is granddaughter of C. E's wife sit on the odd place value from right to left but not extreme right end. A sits one of the three seats from right end. G is mother of B, who buys Mug and B sits exactly between E's wife and C. Three people sit between E's wife and C, who buy Bottle. The number of person sits to the right of C is same as left to the E, who buys clock. D is father of A. The one who buy cup sits immediate right to the one who buy desk. E's wife does not buy cup. D sits immediate left to the one who buys brush. B is brother of H, who married C. F, who sits immediate right to her father. G's daughter buys a bag. B is unmarried. G has only two children. F and the one, who buys Pen, are not neighbors. The one, who buys pen and the one, who buy desk are couples.

36. Who sits to the immediate left of one who buys clock?

- (a) G
- (b) D
- (c) B
- (d) H

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(e) F

37. How many persons sit between son in law of G and wife of E?

- (a) One
- (b) Six
- (c) Three
- (d) Two
- (e) Four

38. Who is daughter of C?

- (a) B
- (b) F
- (c) H
- (d) A
- (e) G

39. Who is second to the right of son of G?

- (a) A
- (b) F
- (c) D
- (d) C
- (e) E

40. How many persons sit between son and husband of G?

- (a) One
- (b) Four
- (c) Six
- (d) Two
- (e) None

Directions (41-45): Answer the questions based on the information given below:

There are seven members i.e. A, B, C, D, E, F and G in a family and only three male members. All are sitting in a row some are facing north and some facing south direction. Each one of them likes different subjects i.e. maths, reasoning, English, history, geography, politics and economics but not necessarily in same order.

C sits at extreme end. F who is sister of B sits second to the right of A's sister. E's mother sits second to the left of F. D is son in law of C and father of E. E does not sit left of F. The one who likes English sits second to the right of the one who sits second to the right of the one who likes politics. E is grandson of A. C likes maths. A, who likes reasoning, is father of B. The one who likes economics sits second to the right of the one who likes history. Mother of B sits second to the left of her. D is not an immediate neighbor of C and faces the same direction as F faces. Not more than three persons face south direction. A, who faces opposite direction of C, sits to the right of E. F is not married to D. C and E face opposite direction with respect to each other.

41. Who is sitting third to the right of C?

- (a) C
- (b) A
- (c) H
- (d) D
- (e) None of these

42. What is the position of A with respect to wife of A?

- (a) Immediate right
- (b) Immediate left

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- (c) Third to the right
- (d) Third to the left
- (e) None of these

43. What is B's position with respect to one who likes English?

- a. Third to the right
- b. Second to the right
- c. Fourth to the right
- d. Second to the left
- e. Third to the left

44. Who is sitting third to the right of one who likes maths?

- (a) A
- (b) G
- (c) F
- (d) D
- (e) None of these

45. Which one of the following statements is true according to the above mentioned arrangement?

- a. G is to the immediate left of wife of A.
- b. D sits immediate right to one of the daughters of C.
- c. F sits second to right of her niece.
- d. E sits fourth to the right of A.
- e. None of these

Directions (46-50): Answer the questions based on the information given below:

There are six members in a family of two generations U, V, W, X, Y and Z. all of them are sitting in a row facing south direction but not necessarily in the same order.

Y is sitting to the immediate right of X. Z is sitting at one of the extreme ends. V's father in law is sitting to the immediate right of V. X is a male. Two persons sit between both the daughters of U. Z is not daughter of U. V's sister in law sits only with V. X's sister is sitting at the extreme right end. U is mother of only two daughters and is sitting second to the right of her husband. V is married male.

46. Who is to the immediate left of Z?

- (a) Y
- (b) U
- (c) X
- (d) W
- (e) None of these

47. Who is son-in-law of X?

- (a) U
- (b) Z
- (c) W
- (d) V
- (e) None of these

48. Who is sitting third to the left of wife of V?

- (a) W
- (b) X
- (c) Z
- (d) Y
- (e) None of these

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49. Who is daughter of U?

- (a) Y and W
- (b) X and Z
- (c) Y and V
- (d) V and Z
- (e) None of these

50. Who is sitting fourth to the right of brother in law of W?

- (a) U
- (b) Y
- (c) X
- (d) V
- (e) Z

Seating Linear with Blood Relation – Answer and Explanation

SOLUTION (1-5):

Explanation in detail: (Completely modified)

1. W is the only daughter of U.
2. U's daughter is an immediate neighbor of one who is sitting at an extreme end of the line.

CASE1:



CASE2:



U()
|
W(-)

3. Z is married to U.
4. Y is the son-in-law of Z.
5. Z is female member

U(+) = Z(-)
|
Y(+) = W(-)

6. Y's only brother-in-law is married to T.
7. T's sister-in-law's father-in-law is X

X(+) U(+) = Z(-)
| |
Y(+) = W(-) — (+) = T(-)

8. V's father is not Y.
9. This family is having three generations.

X(+) U(+) = Z(-)
| |
Y(+) = W(-) — S(+) = T(-)
 |
 V(-)

10. Only three people sit between Y and his wife.

CASE1:

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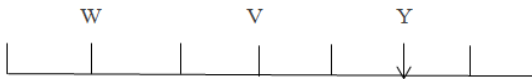


CASE2:



11. T's daughter sits second to the right of S's brother-in-law.
12. U's granddaughter does not sit at an extreme end of the line.

CASE1:



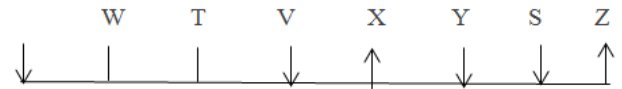
CASE2:



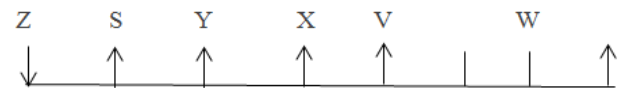
13. The persons sitting at the extreme ends face opposite directions.
14. Z's daughter-in-law sits second to the left of W's father-in-law.
15. X faces north.
16. The immediate neighbors of X face same directions.
17. S's mother sits on the immediate left of her son.

18. The immediate neighbors of W's brother face opposite directions.
19. X is not an immediate neighbor of V's aunt.
20. U's wife is not an immediate neighbor of W.

CASE1:



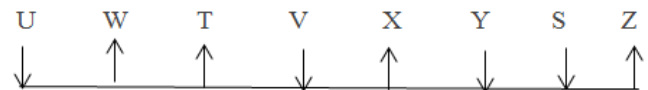
CASE2:



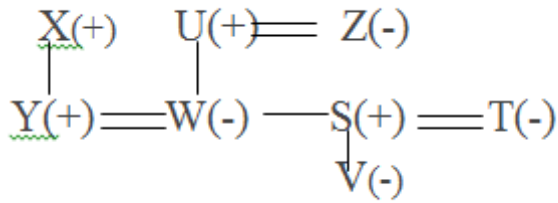
So CASE 2 is cancelled out (Z's daughter-in-law sits second to the left of W's father-in-law, not satisfied)

21. Both W and T face a direction opposite to that of V.

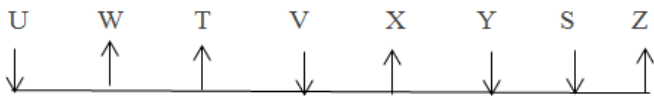
CASE1:



Blood relation:



Final arrangement:



1.d

2.a

3.b

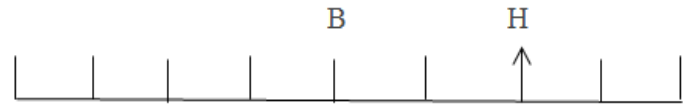
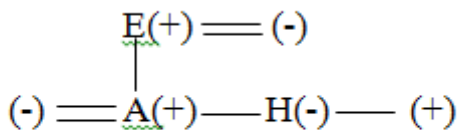
4.b

5.e

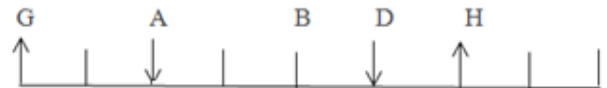
SOLUTION (6-10):

Explanation in detail: (completely modified)

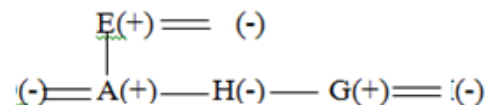
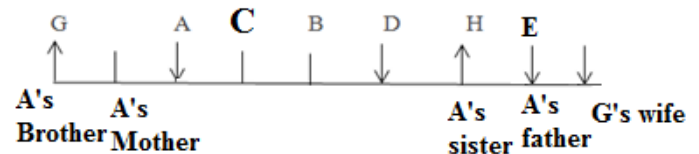
1. A's wife is sitting immediately left of B who is sitting at fifth position from left end of row (when seen in north direction)
2. H faces north and only two persons are sitting to the right of H, who is A's sister.
3. E who is the father of A is sitting to the immediate of G's wife



4. D is sitting between H and B.
5. A is sitting 3rd to the right of D, who faces south
6. There is one person sitting between A and G and they both are facing opposite directions.
7. G faces north.



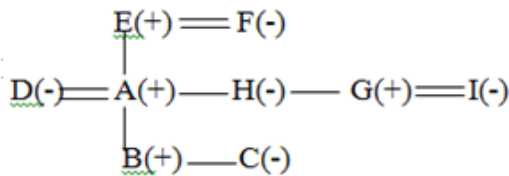
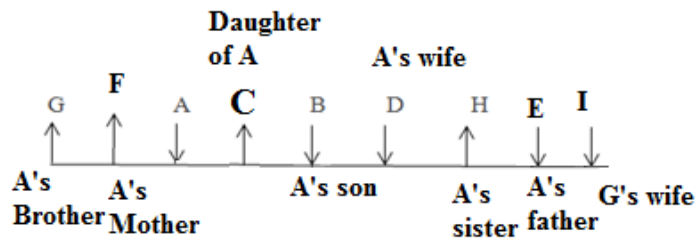
8. C is sitting fourth to the right of A's father.
9. Mother and brother of A are facing the same direction and both of them are sitting together with one of them at an extreme end of the line.
10. H and C are not neighbors.
11. E who is the father of A is sitting to the immediate of G's wife



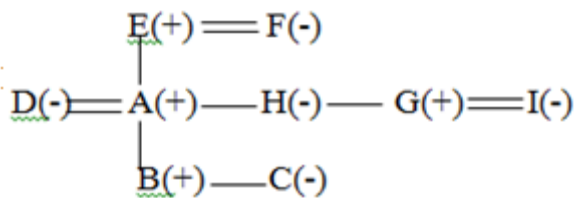
Daughter of A is sitting 2nd to the right of the mother of A.

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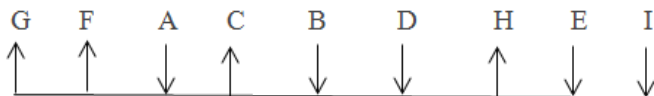
12. I is sitting facing south direction which is opposite of what A's daughter is facing.
13. The immediate neighbors of A's daughter are facing same direction as I.
14. From nine members, one is son of A.
15. A's wife is sitting immediately left of B who is sitting at fifth position from left end of row (when seen in north direction)



Blood relation:



So final arrangement



7.b

8.a

9.c

10.c

SOLUTION (11-15):

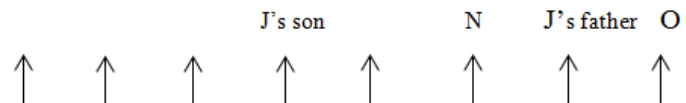
Explanation in detail:

1. O is sitting at one of extreme ends.
2. O is an immediate neighbour of J's father.
3. Two people are sitting between J's son and J's father.
4. N is sitting second to right of J's son.

CASE1:



CASE2:

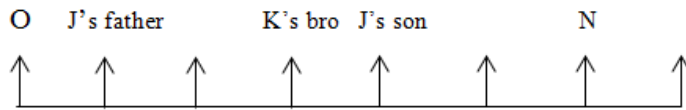


5. Two people are sitting between N and K's brother.
6. M and J's brother are sitting together.
7. J's brother is sitting second to left of J.

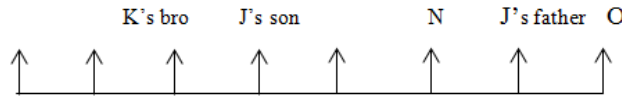
CASE1:

6.d

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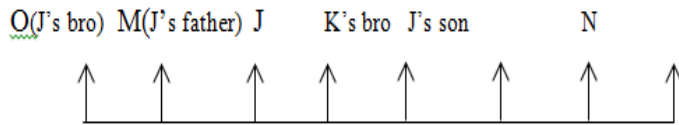
CASE2:



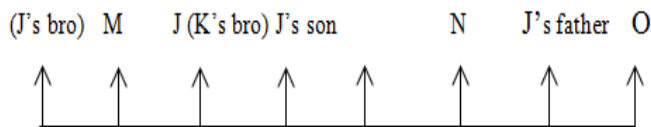
8. Two people are sitting between M and J's sister.

So CASE1 is cancelled out

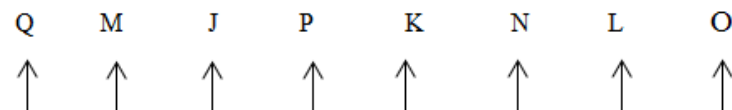
CASE1:



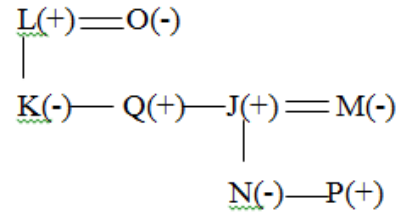
CASE2:



9. J is not an immediate neighbour of N.
10. Q's father is sitting to the immediate right of J's daughter.
11. J's wife is immediate neighbour of Q.
12. P is younger than L.
13. O is married to L



Blood Relation:



Final arrangement:



11.b

12.d

13.a

14.a

15.c

SOLUTION (16-20):

Explanation in detail:

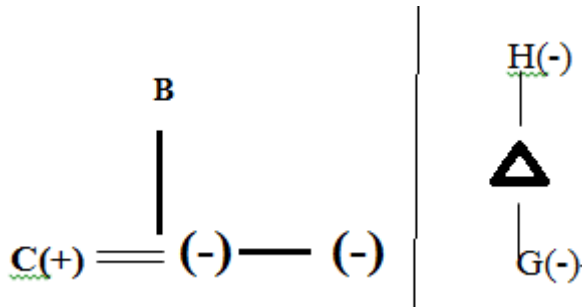
1. A sits at one of the extreme ends of the line.
2. Only three people sit between A and G.
3. E sits exactly between A and G.
4. H is a grandmother of G and C is a son in law of B who has two daughters.

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CASE1:



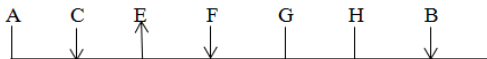
CASE2:



5. H sits third to the right of E.
6. B is an immediate neighbor of H and faces south
7. C sits second to the right of F.
8. C is not an immediate neighbor of G
9. Both the immediate neighbors of E faces south.
10. Both the sister in laws are sitting at the ends.

So CASE2 is cancelled out (C is not an immediate neighbor of G)

CASE1:

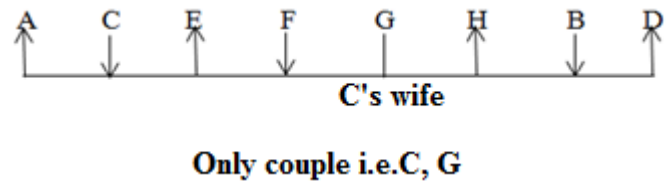


CASE2:



11. Immediate neighbors of G faces opposite direction.
12. A and D face the same direction as E.
13. There is only one married couple in a family of which the wife is sitting third to the left of her husband.

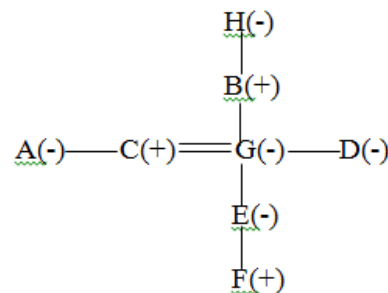
Final arrangement:



Blood relation:

14. D is sister in law of C.
15. E's maternal grandfather is sitting second from one of the ends.
16. E, who is a female and E's maternal grandfather have at least one child, but both of them does not have spouse.
17. A has only one brother, who is a grandfather of F.
18. Youngest person is a male.

Note: Direction of G not known



16.a

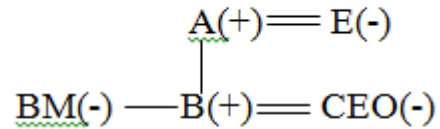
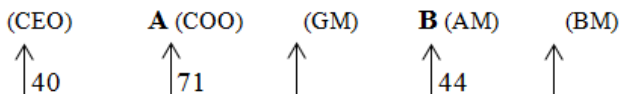
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17. e
18. b
19. d
20. c

SOLUTION (21-25):

Explanation in detail:

- CEO, COO, GM, AM, BM and they are sitting in a line facing north direction in the above order of designations from left to right.
- There are as many persons sitting to the left of A as to the right of the only son of E.
- Two persons sit between the persons, whose ages are 40 and 44 years.
- CEO is younger than AM.
- Person who is BM is the sibling of B and both sit next to each other.
- A is the father in law of the person who is CEO. Husband of E is COO, and he does not have even numbered age.
- Age of the person who sits immediate right of the person whose age is 40 is 71 years.



- Difference of the age of E and D is 4 years less than the age of the person who is CEO.
- D is unmarried and is sister in law of C.
- Average age of A, E and D is 55 years.

Calculation

$$A + D + E = 165$$

$$A = 71, \text{ then } E + D = 94 \text{ ---(1)}$$

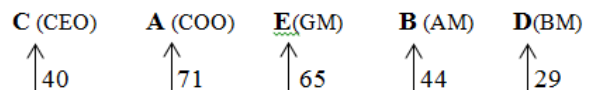
$$\text{given, } E - D = C - 4 \text{ (E is elder than D)}$$

$$C = 40, \text{ then } E - D = 36 \text{ ---(2)}$$

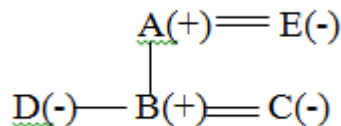
Solving 1 & 2

$$E = 65, D = 29$$

Final arrangement:



Blood relation:



21. e

22. c

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23. a

24. e

25. b

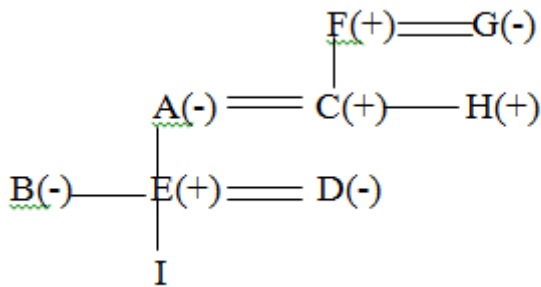
SOLUTION (26-30):

Explanation in detail:

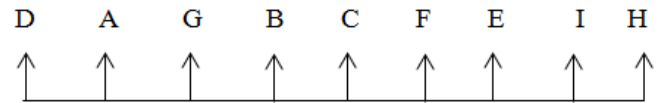
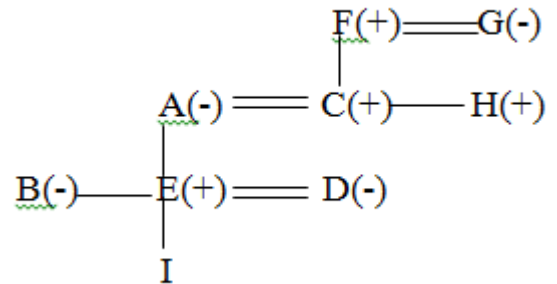
1. Daughter in law of A sits second to the left of G who is married to F.
2. B is daughter of A.
3. E is only married child of A.
4. G has two sons.



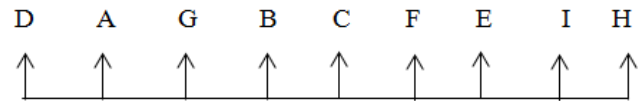
5. Sister in law of D sits fourth from the extreme end.
6. E's father sits to the immediate right of I's aunt.
7. C and H both are siblings. H and I is unmarried.
8. G is mother in law of A.



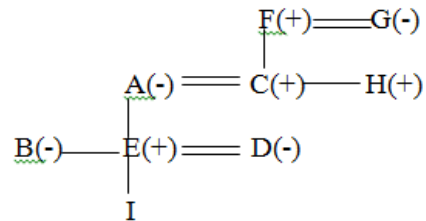
9. E sits second to the right of C. A's brother in law sit at the extreme right end.
10. Only one person sit between F and E's child who is an immediate neighbor of H.
11. G is an immediate neighbor of B.



Final arrangement:



Blood relation:



26. c

27. C

28. e

29. b

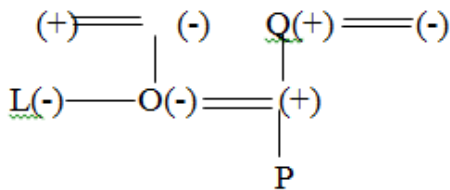
30. d

SOLUTION (31-35):

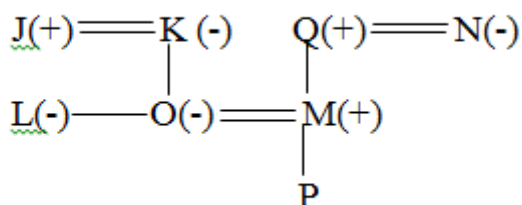
Explanation in detail:

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- O is mother of P and sits third to the left of her own sister.
- O's mother in law is the only neighbor of M's father.
- L is aunt of P. O is not sister in law of L.
- Q is grandfather of P but not father of O.

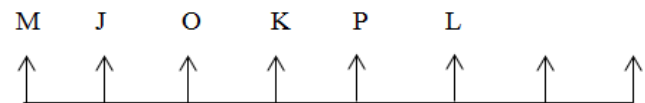


- K sits exactly in between O's father and L.
- M is younger than K who is spouse of J.
- J is not a female member of the family.
- J and O's mother in law does not sit next to each other.
- K is not mother in law of O.
- P is grandchild of N and sits to the immediate right of O's Mother.
- J has two children.
- Two people sit between K and P's father who sits at one of the extreme ends.

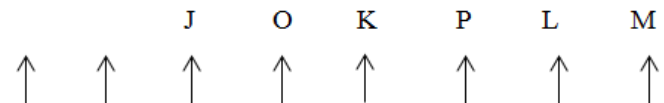


- Two person sit between K and M who sits at one of the extreme ends.
- P sits to the immediate right of K.
- K sits exactly in between J and L.
- O sits third to the left of L.

CASE1:

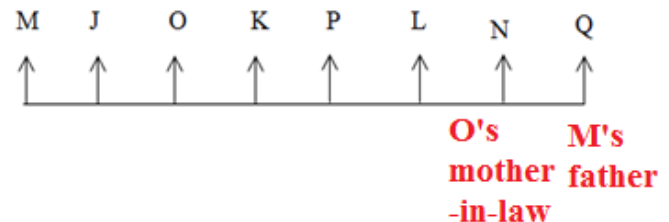


CASE2:

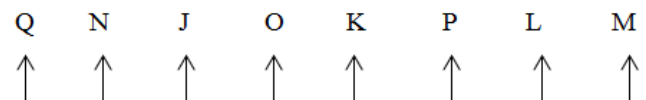


- N is the only neighbor of Q. (diagram modified)

CASE1:



CASE2:

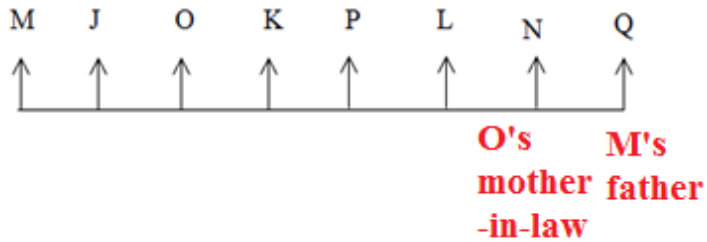


- J and N do not sit next to each other.

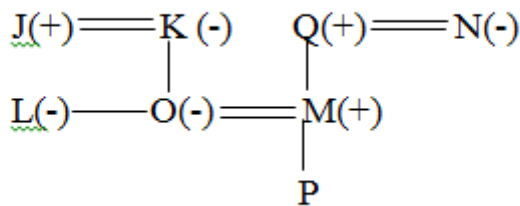
So CASE 2 is cancelled out.

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Final arrangement:



Blood relation:



31. a

32. e

33. e

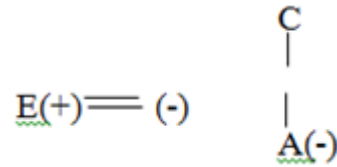
34. b

35. b

SOLUTION (36-40):

Explanation in detail (Completely modified)

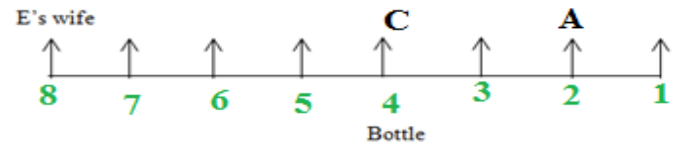
1. A sits one of the three seats from right end.
2. There is only one person sit between C and A, who is granddaughter of C.
3. Three people sit between E's wife and C, who buy Bottle.
4. E's wife sits on the odd place value from right to left but not extreme right end.



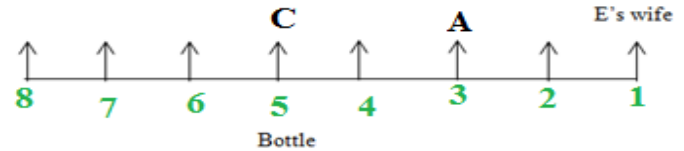
Case-1



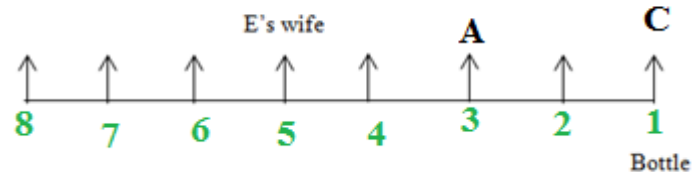
Case-2 (Invalid, E's wife at 8 (even))



Case-3 (Invalid, E's wife at right end)



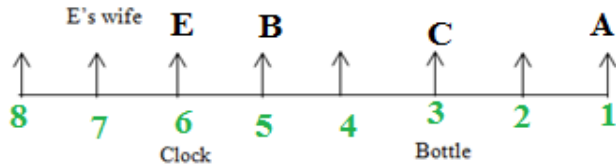
Case-3 -A



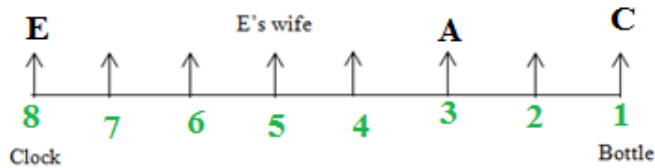
5. The number of person sits to the right of C is same as left to the E, who buys clock.
6. B sits exactly between E's wife and C

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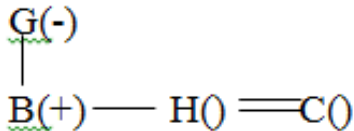
Case-1



Case-3 -A (Invalid no place for B)



7. G is mother of B, who buys Mug
8. B is brother of H, who married C.
9. G has only two children.
10. The one who buy cup sits immediate right to the one who buy desk.
11. E's wife does not buy cup.

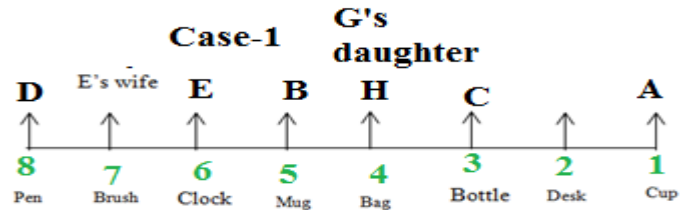


12. D sits immediate left to the one who buys brush

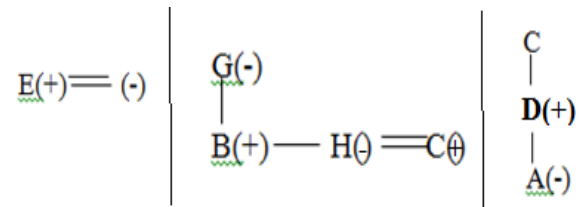
Case-1



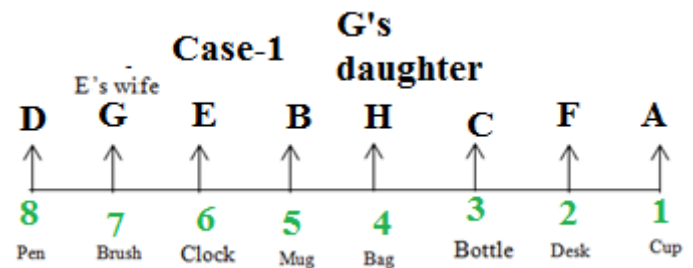
13. G's daughter buys a bag. B is unmarried



14. D is father of A.



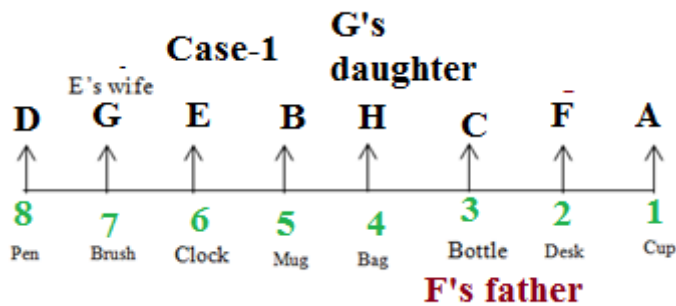
15. F and the one, who buys Pen, are not neighbors.



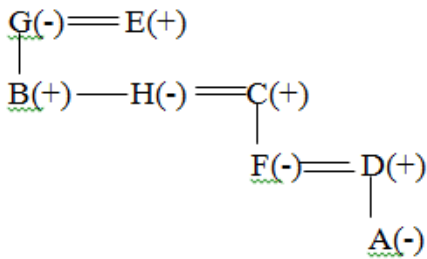
16. F, who sits immediate right to her father.
17. The one, who buys pen and the one, who buy desk are couples.

Final arrangement:

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Blood relation:



36. a

37. c

38. b

39. d

40. e

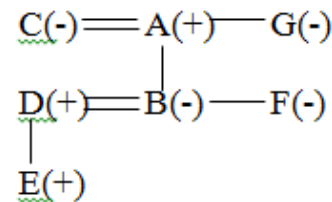
SOLUTION (41-45):

Explanation in detail:

1. F who is sister of B sits second to the right of A's sister.
2. D is son in law of C and father of E.
3. A is father of B.



4. F is not married to D.
5. E is grandson of A.
6. Mother of B sits second to the left of her.



7. C sits at extreme end.
8. C likes maths.
9. C sits second to the left of B.
10. B sits second to the left of F.
11. F sits second to the right of G.
12. Not more than three persons face south direction.

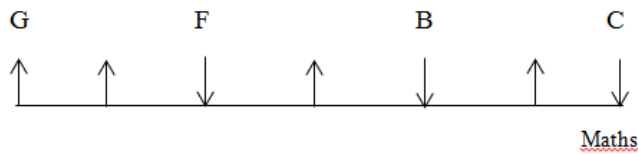
CASE1:



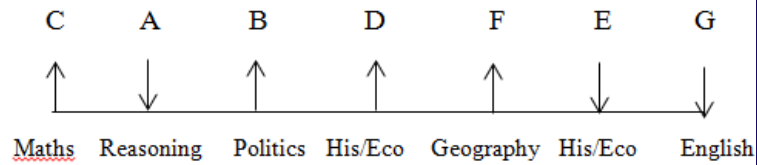
Maths

CASE2:

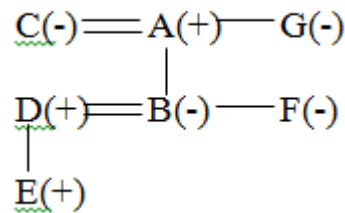
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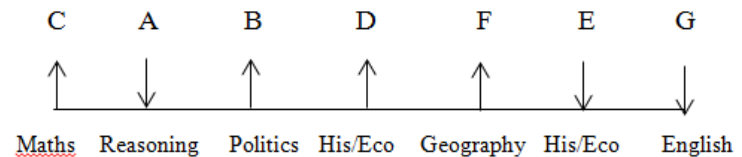
CASE1:



Blood relation:



Final arrangement:



41.d

42.a

43.c

44.d

45.b

SOLUTION (46-50):

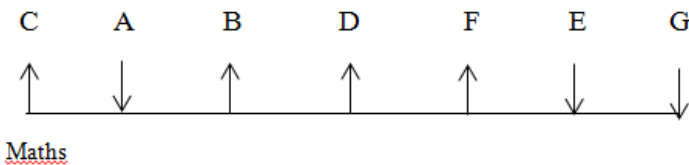
Explanation in detail:

1. X's sister is sitting at the extreme right end.
2. U is mother of only two daughters and is sitting second to the right of her husband.

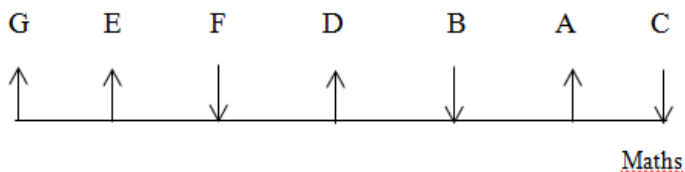
13. E does not sit left of F.
14. A, who faces opposite direction of C, sits to the right of E.
15. C and E face opposite direction with respect to each other.
16. D is not an immediate neighbor of C and faces the same direction as F faces.

So CASE2 is cancelled out.

CASE1:



CASE2:



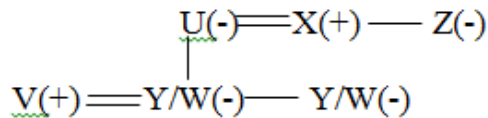
17. The one who likes English sits second to the right of the one who sits second to the right of the one who likes politics.
18. A likes reasoning.
19. The one who likes economics sits second to the right of the one who likes history.

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3. V is married male.
4. V's father in law is sitting to the immediate right of V.



5. X is a male.
6. Z is not daughter of U.

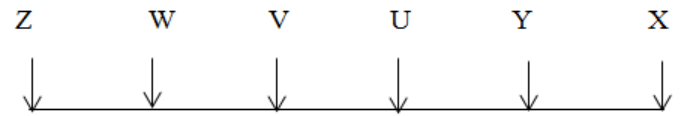


7. Z is sitting at the extreme right end.
8. U is sitting second to the right of X.
9. X is sitting to the immediate right of V.
10. Y is sitting to the immediate right of X.
11. Two persons sit between both the Y and W.

CASE1:



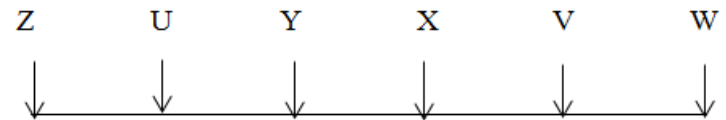
CASE2:



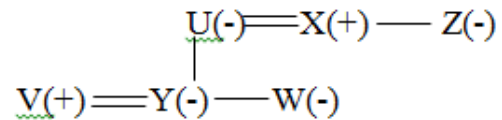
12. V's sister in law sits only with V.

So CASE2 is cancelled out

Final arrangement:



Blood relation:



46.b

47.d

48.a

49.a

50.e

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Seating Circle with Blood Relation

Directions (1-5): Answer the questions based on the information given below:

P, Q, R, S, T, U, V and W are sitting around a circle facing the centre but not necessarily in the same order. Each of them has a relationship with P. V is sitting second to the left of father of P. U is immediate neighbor of P. S, mother of P is sitting opposite to the sister of P. Q is sitting to the immediate right of wife of P. T is sitting to the immediate left of sister of P. T who is a male is sitting second to the right of mother of R. Brother of P is sitting third to right of Q. Daughter of P is sitting to third to right of sister of P. P is sitting second to the right of daughter of T. V has two children in different genders.

2. What is the position of R with respect to her grandmother?

- (a) Third to right
- (b) Second to left
- (c) Third to right
- (d) Immediate left
- (e) Cannot be determined

3. What is the position of P with respect to her sister?

- (a) Second to right
- (b) Immediate left
- (c) Third to right
- (d) Second to left
- (e) Immediate right

4. How is R related to U?

- (a) sister
- (b) Niece
- (c) Daughter
- (d) Sister-in-law
- (e) Cannot be determined

5. Who is the husband of V?

- (a) Brother of Q
- (b) Father of Q
- (c) Grandfather of R
- (d) Son of W
- (e) Father of P

6. How is S related to R?

- (a) sister
- (b) Aunt
- (c) Mother
- (d) Mother-in-law
- (e) Grandmother

Directions (6-10): Answer the questions based on the information given below:

L, M, N, O, P, Q, R and S are sitting around a circle facing the centre but not necessarily in the same order. S's husband is sitting second to right of M. Q is sitting second to the left of O's daughter. Q is the sister of R. S's husband is not an immediate neighbor of Q. Only one person is sitting between Q and L. Similarly there is only one person sitting between P and S's mother. No female sits to the immediate side of M. L is father of R. S's mother is sitting to the immediate right of O, who is S's brother. Only one

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person sits between S and R. P is not an immediate neighbor of R, who is the mother of N.

6. What is the position of P with respect to L?

- (a) Third to right
- (b) Second to left
- (c) Third to right
- (d) Fourth to right
- (e) Cannot be determined

8. What is the position of R with respect to her sister?

- (a) Second to right
- (b) Immediate left
- (c) Third to right
- (d) Second to left
- (e) Immediate right

9. How is S related to O?

- (a) sister
- (b) Niece
- (c) Daughter
- (d) Sister-in-law
- (e) Cannot be determined

10. Who is the husband of S?

- (a) brother of Q
- (b) Father of P
- (c) Father of Q
- (d) Son of P
- (e) Cannot be determined

11. How is S related to R?

- (a) sister

(b) Aunt

(c) Mother

(d) Mother-in-law

(e) Cannot be determined

Directions (11-15): Answer the questions based on the information given below:

Eight family members J, K, L, M, N, O, P and Q are sitting around circular table facing the centre, but not necessarily in the same order. There are four males and four females. Q is third to the right of K who is the son of J. N is an immediate neighbor of Q and second to the left of his son. O, who is married to K and is third to the right of N's son. L and her mother J are immediate neighbor of each-other. L is mother of M. P is female but she is not daughter of L and Q. P is in third generation. O is not immediate neighbor of her husband's sister. N is son-in-law of Q and is not immediate neighbor of M.

11. Who is to the immediate left of father of L?

- (a) M
- (b) N
- (c) K
- (d) J
- (e) None of these

12. Who sits second to the left of grandson of J?

- (a) O
- (b) L
- (c) Q
- (d) N
- (e) None of these

13. Who is sitting third to the left of N?

- (a) O
- (b) Q
- (c) L
- (d) P
- (e) None of these

14. Who is sitting third to the right of daughter of K?

- (a) O
- (b) J
- (c) M
- (d) L
- (e) None of these

15. What is relation between P with respect to O?

- (a) Son
- (b) Uncle
- (c) Daughter
- (d) father
- (e) None of these

Directions (16-20): Answer the questions based on the information given below:

Eight members of a family are S, T, U, V, W, X, Y and Z. All are sitting around a circular table facing the centre, but not necessarily in the same order. Y is not an immediate neighbor of W. T sits second to the left of Z's husband. Y is the mother of U. Only one person sits between Z's mother and W. No female is an immediate neighbor of T. V's daughter sits second to the right of X. X is the sister of Y. X is not an immediate neighbor of Z's husband. Only one person sits between S and X. S is the father of Y. Z's

brother V sits to the immediate left to the Z's mother. Only one person sits between Y and Z.

31. What is the position of U with respect to W?

- (a) Third to left
- (b) Second to left
- (c) Third to right
- (d) Fourth to right
- (e) Cannot be determined

32. What is the position of Z with respect to father of Y?

- (a) Second to right
- (b) Immediate left
- (c) Third to right
- (d) Second to left
- (e) Immediate right

33. How is X related to V?

- (a) sister
- (b) Niece
- (c) Daughter
- (d) Sister-in-law
- (e) Cannot be determined

34. Who is the spouse of S?

- (a) Y
- (b) T
- (c) W
- (d) Z
- (e) Cannot be determined

35. How is Z related to U?

- (a) sister

- (b) Aunt
- (c) Grandmother
- (d) Mother-in-law
- (e) Cannot be determined

Directions (21-25): Answer the questions based on the information given below:

Eight family members A, B, C, D, E, F, G and H are sitting around circular table facing the centre, but not necessarily in the same order. Among them four are male and four are females. There are three husbands, three wives, two sons and two daughters. Each family members like different cricket players i.e. Rohit, Virat, Dhawan , Pant, Dhoni, Hardik, Jadeja and Rahul. H likes Dhoni and married to the one who likes Hardik. A and B cannot sit adjacent to each other. A is the father of C and F, who is a male and likes Hardik. All females sit together. D likes Rahul and is sitting second to the left of her father. D is the daughter of C, who is second to the right of her son. E is mother in law of H. No male like Dhawan. The one who likes Jadeja is married to the one who likes Pant and neither A and B likes Pant. E likes Dhawan and is sitting between the one who likes Virat and the one who likes Jadeja. G is the father of B and is sitting between two male members.

21. Who is to the immediate left of the one who likes Dhoni?

- (a) D
- (b) E
- (c) F

- (d) G
- (e) C

22. Who sits second to the left of grandson of A?

- (a) C
- (b) E
- (c) G
- (d) D
- (e) None of these

23. Who is sitting third to the left of the one who likes Virat?

- (a) A
- (b) D
- (c) F
- (d) H
- (e) None of these

24. Who is sitting second to the right of daughter of G?

- (a) H
- (b) B
- (c) A
- (d) G
- (e) None of these

25. What is relation between F with respect to B?

- (a) Son
- (b) Uncle
- (c) Daughter
- (d) Father
- (e) None of these

Directions (26-30): Answer the questions based on the information given below:

Eight members S, T, U, V, W, X, Y and Z of a family are sitting around a circular table facing to the centre and there are three married couples in the family. Each one of them likes different colors viz. Red, Blue, Green, Yellow, Orange, White, Black and Pink but not necessarily in the same order.

Z is the only sister – in – law of S. X is an immediate neighbor of her aunt Z who does not sit next to V. X and Y are cousins. U does not like Pink and Black. T likes white and is daughter – in –law of U. X and Y sit next to each other. Y is third to the left of V. The one who likes white sits between the persons who likes Black and Pink respectively. S who is the father of X sits to the immediate left of the person who likes Red. V's husband and V's son sit next to V. Green is not likes by Y's father. Y does not like Green and Black. V is the mother of S and W and sits second to the left of W. The one, who likes blue sits between Y and the one, who likes orange.

26. What is the position of U with respect to T?

- (a) Third to right
- (b) Second to left
- (c) Third to left
- (d) Fourth to right
- (e) Cannot be determined

27. What is the position of Z with respect to father of one who likes pink?

- (a) Second to right

- (b) Third to right
- (c) Immediate left
- (d) Second to left
- (e) Immediate right

28. How is Y related to U?

- (a) sister
- (b) Niece
- (c) Daughter
- (d) Sister-in-law
- (e) Cannot be determined

29. Who is the husband of one who likes white colour?

- (a) Who likes green colour
- (b) Who likes black colour
- (c) Who likes orange colour
- (d) Who likes yellow colour
- (e) Cannot be determined

30. How is Z related to U?

- (a) sister
- (b) Daughter-in-law
- (c) Grandmother
- (d) mother-in-law
- (e) Cannot be determined

Directions (31-35) : Answer the questions based on the information given below:

J, K, L, M, N, O, P and Q are eight family members sitting around a circular table, facing the centre, but not necessarily in the same order. Each member likes a different color viz. Red, Maroon, White, Green, Blue,

Yellow, Orange, and Black, but not necessarily in the same order. M sits on the immediate left of her brother, who sits in front of his father. K has two sons and one of the son's like Green color. Q sits in front of her mother-in-law who likes Black color. N's son likes Orange color. O sits between the person who like Maroon color and the person who like Green color and her favorite color is Blue. L and his sister-in-law like Green and White colors respectively. J is the head of the family (i.e. he is oldest person of the family) and sits third to the left of his wife K. P has two sisters and sits second to the right of his grandfather, who likes Red color. Only two members are in first generation.

31. Who sits to the immediate right of the one who likes red?

- (a) M
- (b) Q
- (c) O
- (d) N
- (e) K

32. Who among the following likes Yellow colour?

- (a) M
- (b) J
- (c) O
- (d) L
- (e) K

33. Who sits third to the left of J?

- (a) M
- (b) N

- (c) Q
- (d) L
- (e) O

34. Which colour N likes?

- (a) Red
- (b) Orange
- (c) Green
- (d) Maroon
- (e) White

35. How many persons sit between L and M from left of L?

- (a) One
- (b) Four
- (c) Six
- (d) Two
- (e) Three

Directions (36-40): Answer the questions based on the information given below:

There are eight persons J, K, L, M, Q, R, S, and T are sitting around a circular table facing the center but not necessarily in the same order. Each of them has a relationship with M. There are only two married couples. The daughter of M is sitting second to the left of the brother of M. J is sitting to the immediate right of R. The son of M is sitting second to the right of the wife of M. Three persons are sitting between the son of M and the brother of M. K is sitting to the immediate right of the sister of M. Two persons are sitting between K and the father of M. Two persons are sitting between Q and L. M

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is sitting second to the left of Q. Three persons are sitting between L and the wife of M. T is sitting second to the right of the mother of M. R is neither son nor wife of M. The sister of M is sitting second to the left of R.

36. What is the position of T with respect to the son of K?

- (a) Immediate right
- (b) Second to left
- (c) Third to right
- (d) Immediate left
- (e) Cannot be determined

37. Four of the following five are alike in a certain way based on the given arrangement and hence form a group. Which is the one that doesn't belong to that group?

- (a) TQ
- (b) JS
- (c) TR
- (d) MR
- (e) KL

38. Who is daughter-in-law of T?

- (a) Q
- (b) K
- (c) S
- (d) M
- (e) T

39. Who is second to the right of daughter of R?

- (a) J
- (b) Q

(c) R

(d) M

(e) T

40. How many persons sit between brother-in-law and father-in-law of K, when counted from left of brother in law of K?

- (a) One
- (b) Four
- (c) Six
- (d) Three
- (e) Two

Directions (41-45): Answer the questions based on the information given below:

Seven members A, B, C, D, E, F and G of a family are sitting around a circular table facing to the centre but not necessarily in the same order. They like different singers Sonu, Arijit, Daler, Daljit, Honey, Badshah and Tony but not necessarily in the same order. There are four generations and three married couple. E and F belong to the same gender. D's son likes Daljit whose daughter is C, who likes Honey. No spouse sitting together. The father of who likes Badshah is not sitting near to any male person. The son in law of who likes Daljit is not an immediate neighbor of who likes Badshah and Daljit. F is an unmarried female who likes Badshah. A, the eldest person in the family likes Arijit but the wife of A does not like Daler. G, who is son in law of who likes Daler, likes Tony. The person who likes Sonu is sitting second to the right of father of the person who likes Honey. The one who likes

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Daljit is second to the right of the person who is unmarried female. F is daughter of the person who likes Tony.

41. Who is sitting third to the right of B?

- (a) C
- (b) A
- (c) F
- (d) G
- (e) None of these

42. What is the position of A with respect to daughter of G?

- (a) Immediate right
- (b) Immediate left
- (c) Third to the right
- (d) Third to the left
- (e) None of these

43. What is F's position with respect to her grandmother?

- (k) Third to the right
- (l) Second to the right
- (m) Immediate right
- (n) Second to the left
- (o) Third to the left

44. Who is sitting third to the right of who likes Sonu?

- (a) F
- (b) B
- (c) D
- (d) C
- (e) G

45. Which one of the following statements is true according to the above mentioned arrangement?

- (k) G is to the immediate left of who likes sonu .
- (l) F sits second to the right of who likes Tony.
- (m) B sits second to right of who likes Honey.
- (n) E sits fourth to the right of who likes Badshah.
- (o) None of these

Directions (46-50) : Answer the questions based on the information given below:

Eight family members A, B, C, D, E, F, G and H are sitting around circular table facing the centre, but not necessarily in the same order, they are closely related to A. A's father in law sits second to the right of F. Only one person sit between A's son and D. H sits to the immediate right of A's son. A's husband and H are sitting opposite to each other. A sits to the immediate left of E. F sits to the immediate right of G. A's father in law and A's son in law are sitting opposite to each other. C sits to the second to the left of A's daughter. A's daughter in law sits third to the right to the A's mother in law. D sits third to the right of E. Only one person sits between A's husband and B.

46. Who is to the immediate left of H?

- (a) B
- (b) C
- (c) D
- (d) G
- (e) None of these

47. Who is daughter-in-law of H?

- (a) C

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- (b) E
- (c) G
- (d) A
- (e) None of these

48. Who is sitting third to the left of wife of E?

- (a) A
- (b) G
- (c) D
- (d) F
- (e) None of these

49. Who are the daughter-in-law and son – in law of A?

- (a) B and G
- (b) C and D
- (c) G and H
- (d) B and A
- (e) None of these

50. Who is sitting fourth to the right of G?

- (a) E
- (b) D
- (c) F
- (d) B
- (e) C

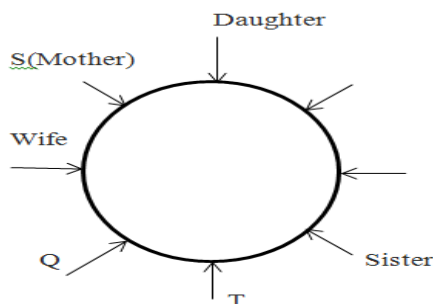
Seating Circle with Blood Relation – Answer and Explanation

SOLUTION (1-5):

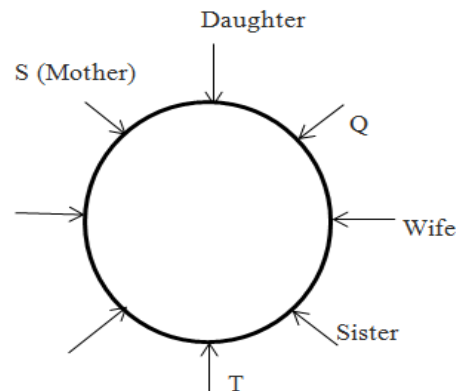
Explanation in detail:

- 19. S, mother of P is sitting opposite to the sister of P.
- 20. Daughter of P is sitting to third to right of sister of P.
- 21. T is sitting to the immediate left of sister of P.
- 22. Q is sitting to the immediate right of wife of P.

CASE1:

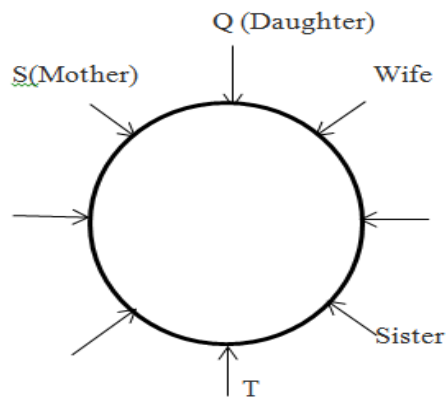


CASE2:



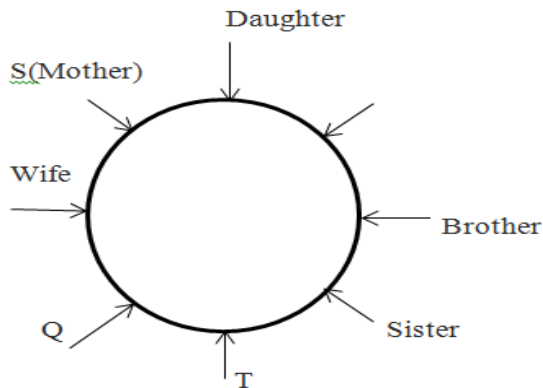
CASE3:

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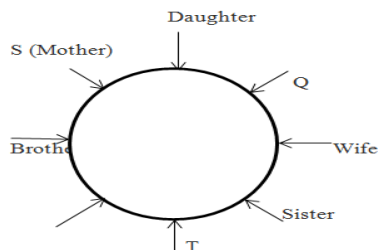


23. Brother of P is sitting third to right of Q.

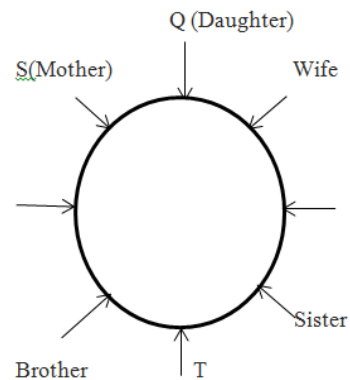
CASE1:



CASE2:

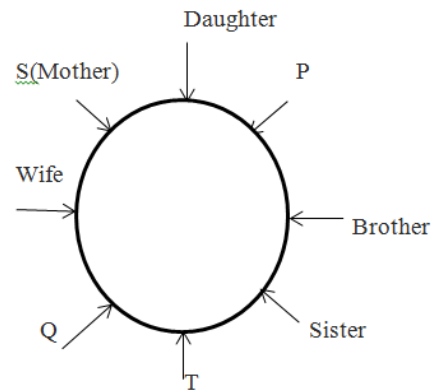


CASE3:

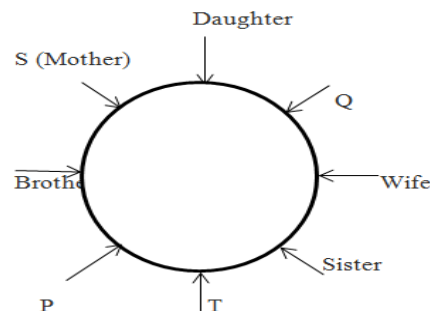


24. Next we have only 1 position left for placing P in all 3 arrangements as

CASE1:

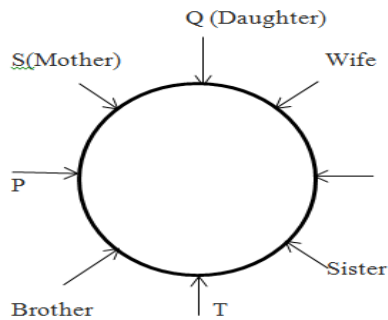


CASE2:



CASE3:

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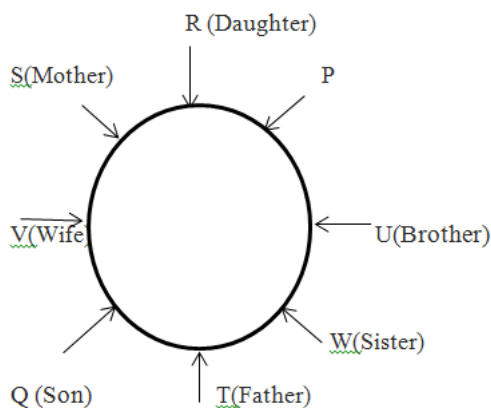


25. P is sitting second to the right of daughter of T.
26. T who is a male is sitting second to the right of mother of R.
27. V is sitting second to the left of father of P. U is immediate neighbor of P.
28. V has two children in different genders.

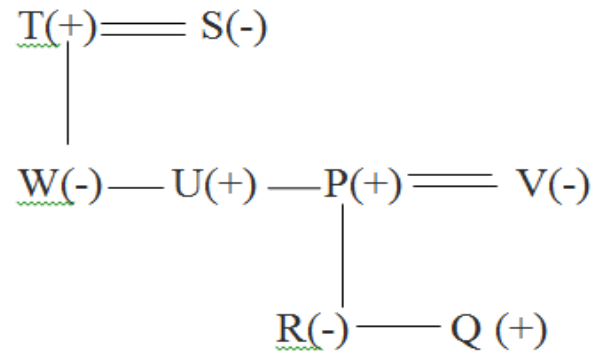
So final arrangement

Case-2 & 3 gets rejected as these both cases were not satisfied with 8th statement (as we know P is a male member)

In case-1, P's sister, P's brother and P's daughter were seated apart from Q. This implies Q must be son of P and the blood relation is shown below,



Blood relation:

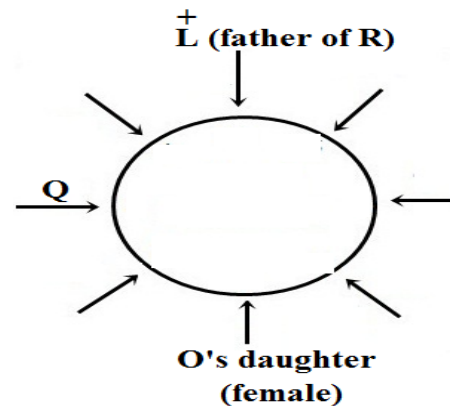


1. d
2. a
3. b
4. b
5. e

SOLUTION (6-10):

Explanation in detail: (completely modified)

Q is sitting second to the left of O's daughter.
Only one person is sitting between Q and L.
L is father of R.



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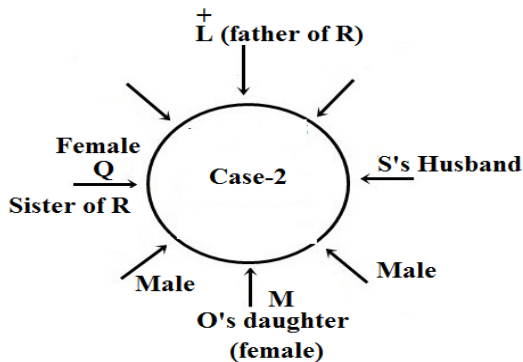
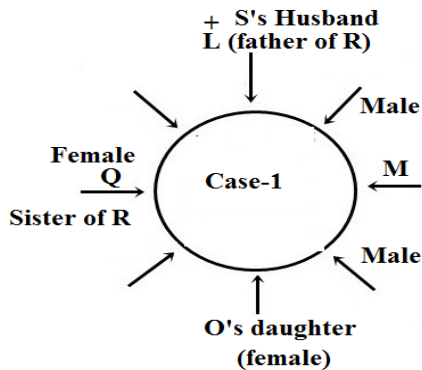


Q is the sister of R.

S's husband is not an immediate neighbor of Q.

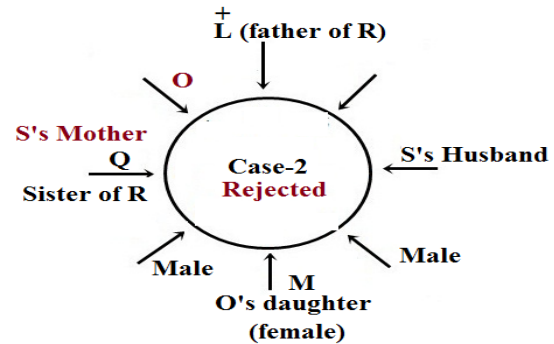
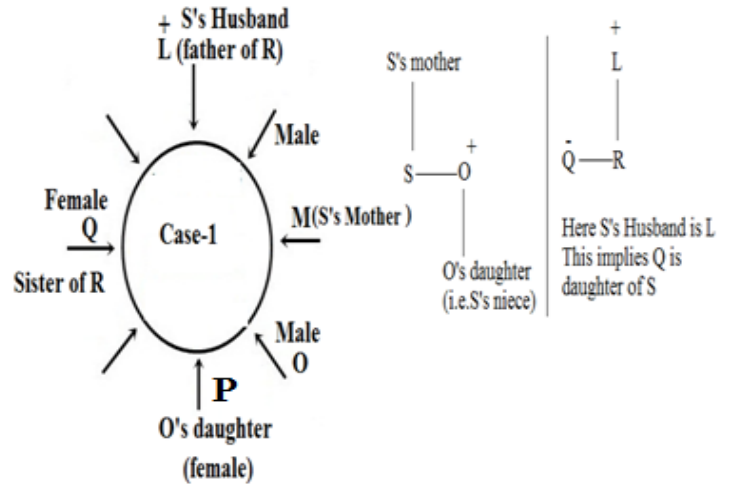
S's husband is sitting second to right of M.

No female sits to the immediate side of M.



S's mother is sitting to the immediate right of O, who is S's brother.

Similarly there is only one person sitting between P and S's mother.



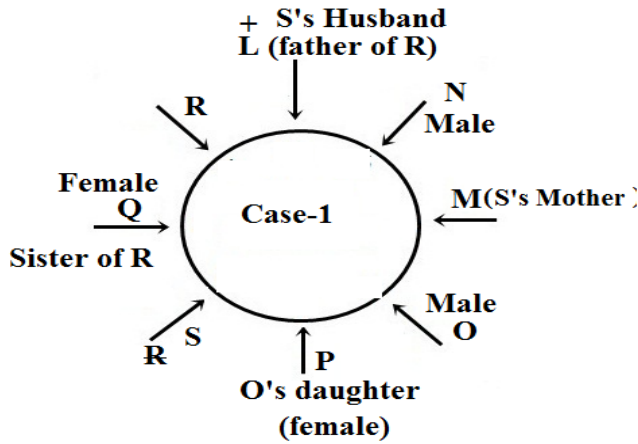
Case 2 rejected as there is no place for P.

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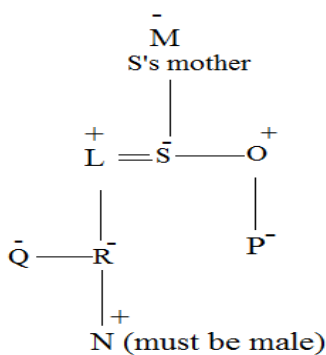
Only one person sits between S and R.

P is not an immediate neighbor of R, who is the mother of N.

Final Seating



Final Blood relation



6. d

7. b

8. a

9. c

10. c

SOLUTION(11-15):

Explanation in detail:

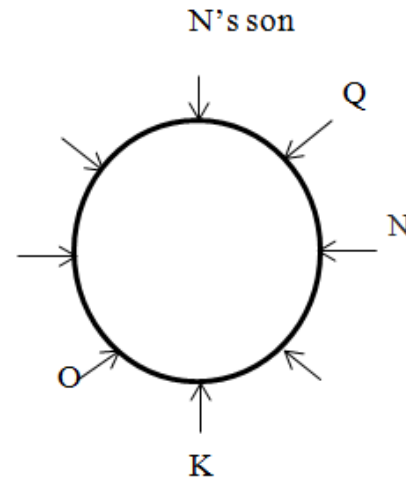
15. Q is third to the right of K who is the son of J.

16. N is an immediate neighbour of Q and second to the left of his son.

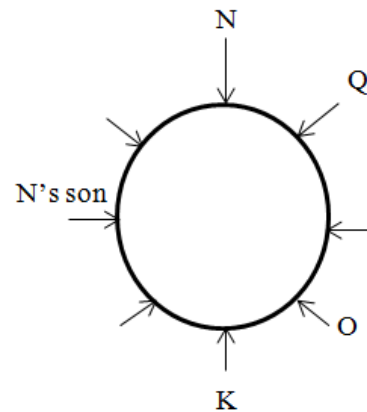
17. O, who is married to K and is third to the right of N's son.

18. L is mother of M. P is female but she is not daughter of L and Q. P is in third generation.

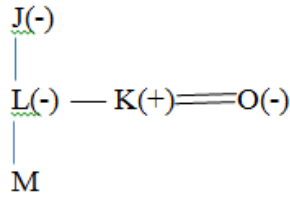
CASE1:



CASE2:

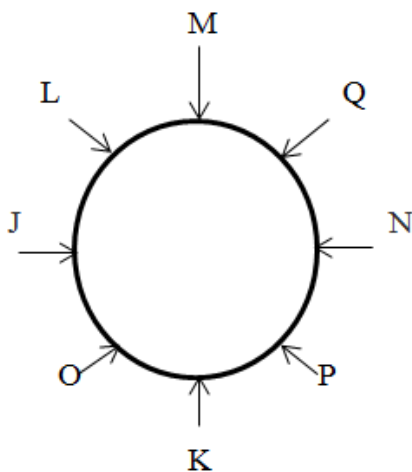


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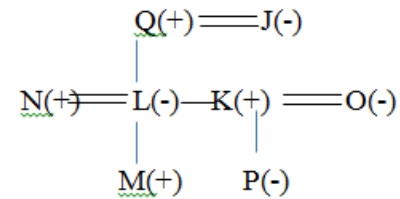
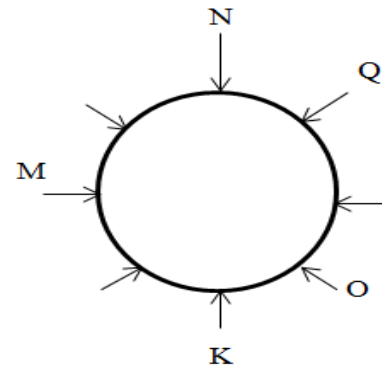


19. P is female but she is not daughter of L and Q.
20. P is in third generation.
21. O is not immediate neighbour of her husband's sister.
22. N is son-in-law of Q and is not immediate neighbour of M.
23. L and her mother J are immediate neighbour of each-other.
24. O is not immediate neighbour of her husband's sister. N is son-in-law of Q and is not immediate neighbour of M.

CASE1:

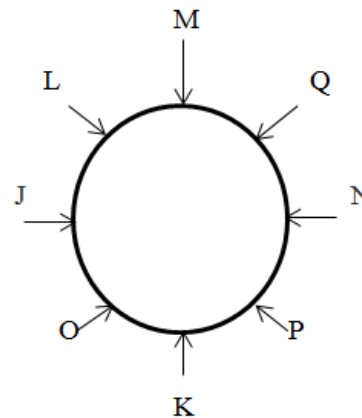


CASE2:



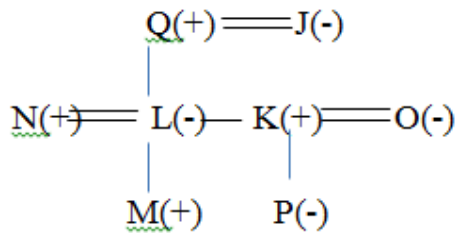
In case 2 there is no such space for J and L.
So CASE2 is cancelled out.

Final arrangement:



Blood relation:

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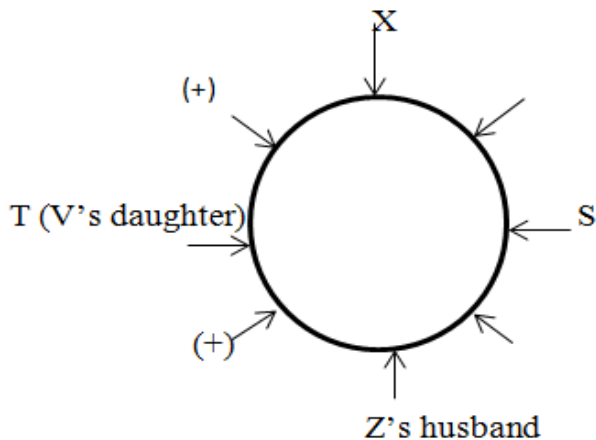
11. b
12. d
13. a
14. c
15. c

SOLUTION(16-20):

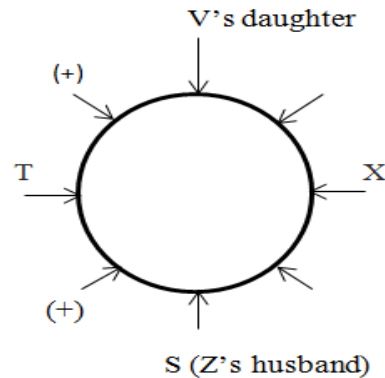
Explanation in detail:

25. T sits second to the left of Z's husband.
26. No female is an immediate neighbor of T.
27. V's daughter sits second to the right of X.
28. X is the sister of Y.
29. X is not an immediate neighbor of Z's husband.
30. Only one person sits between S and X.

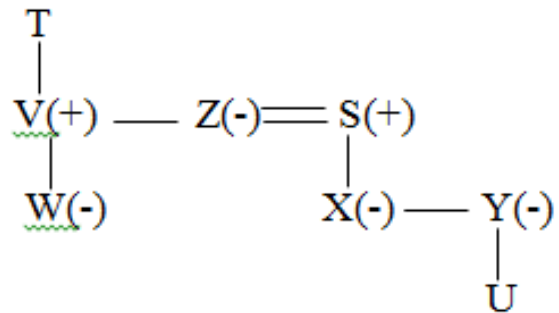
CASE1:



CASE2:



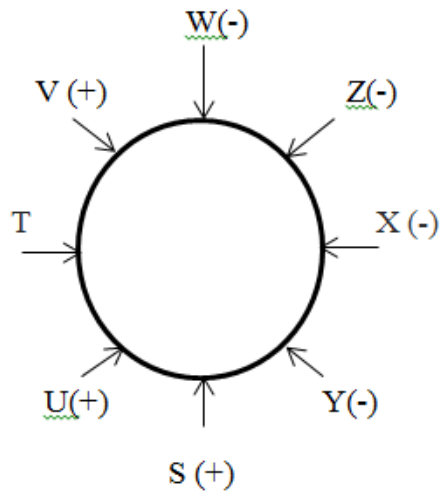
31. S is the father of Y.
32. Z's brother V sits to the immediate left to the Z's mother.
33. Only one person sits between Z's mother and W.
34. Only one person sit between Y and Z.
35. Y is the mother of U.
36. Y is not an immediate neighbor of W.



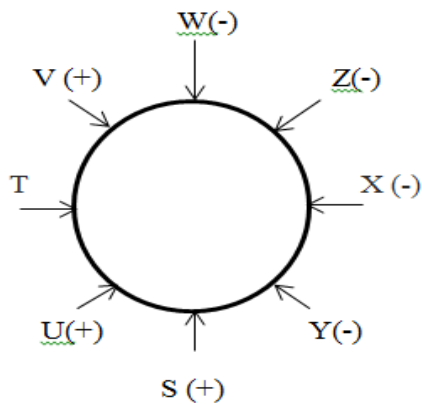
From above family tree CASE1 is cancelled out.

CASE2:

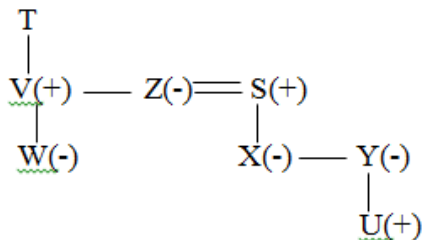
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CASE2 is final arrangement:



Blood relation:



16. C

17. C

18. b

19. d

20. c

SOLUTION (21-25):

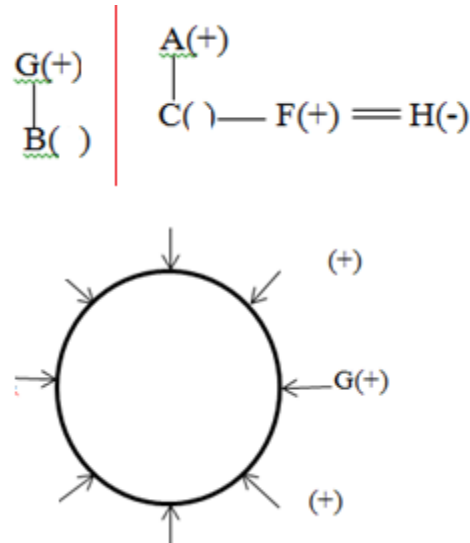
Explanation in detail: (completely modified)

30. H likes Dhoni and married to the one who likes Hardik.

31. A is the father of C and F, who is a male and likes Hardik.

32. G is the father of B and is sitting between two male members.

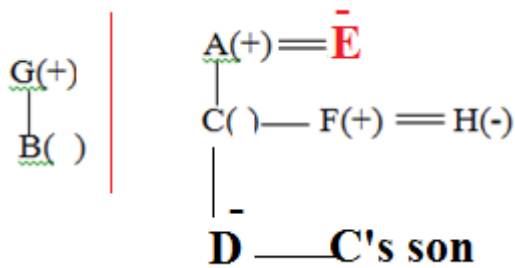
Figure modified



33. E is mother in law of H.

34. D is the daughter of C, who is second to the right of her son.

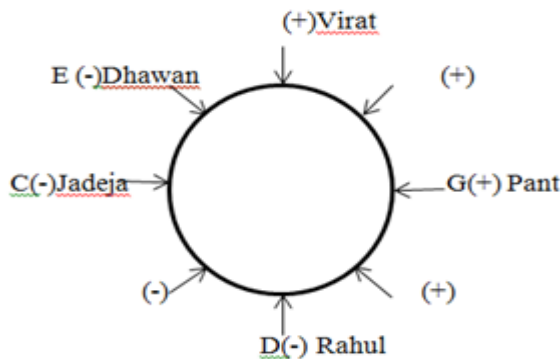
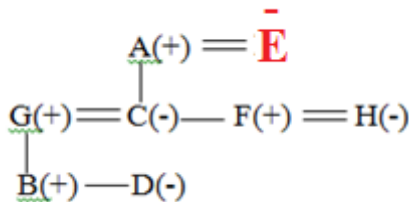
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35. The one who likes Jadeja is married to the one who likes Pant and neither A and B likes Pant
36. E likes Dhawan and is sitting between the one who likes virat and the one who likes Jadeja.
37. D likes Rahul and is sitting second to the left of her father. No male like Dhawan.
38. All females sit together.

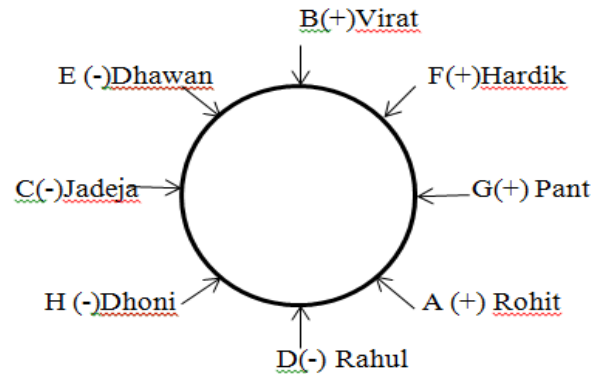
Blood relation: (figure modified)

As there are three married couples therefore G must married to C (also to satisfy 7th statement)



39. A and B cannot sit adjacent to each other.

Final arrangement:



21. e

22. c

23. a

24. d

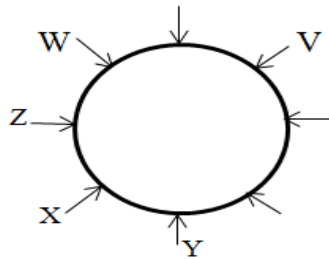
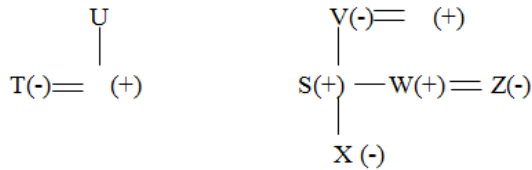
25. b

SOLUTION (26-30):

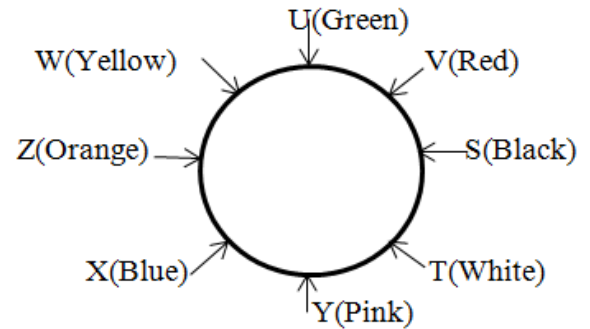
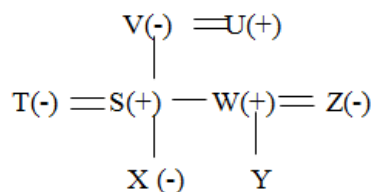
Explanation in detail:

36. S who is the father of X sits to the immediate left of the person who likes Red.
37. X is an immediate neighbour of her aunt Z who does not sit next to V.
38. Y is third to the left of V.
39. X and Y sit next to each other.
40. V is the mother of S and W and sits second to the left of W.
41. Z is the only sister – in – law of S.

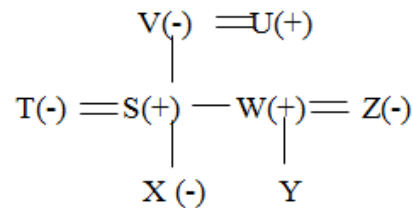
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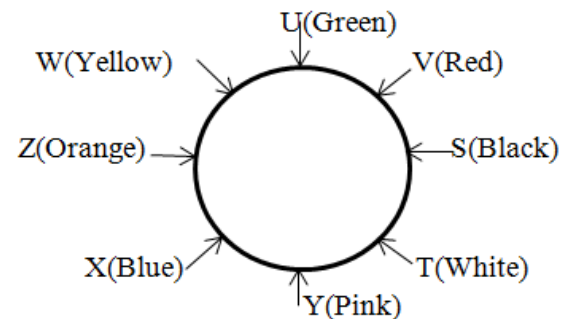
42. T likes white and is daughter – in –law of U.
43. The one who likes blue sits between Y and the one who likes orange.
44. The one who likes white sits between the persons who likes Black and Pink respectively.
45. V's husband and son sit next to her.
46. Green is not liked by Y's father. Y does not like Green and Black.
47. U does not like Pink and Black.
48. X and Y are cousins.



Blood relation:



Final arrangement:



26. a

27. E

28. e

29. b

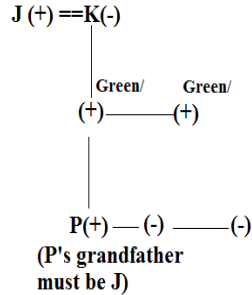
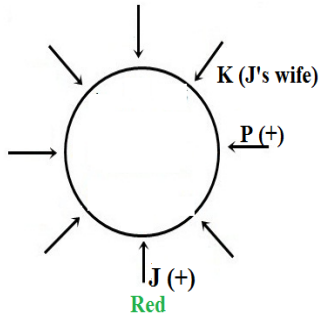
30. B

SOLUTION (31-35):

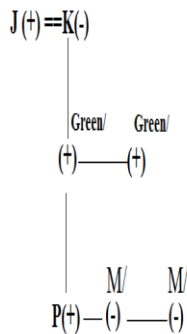
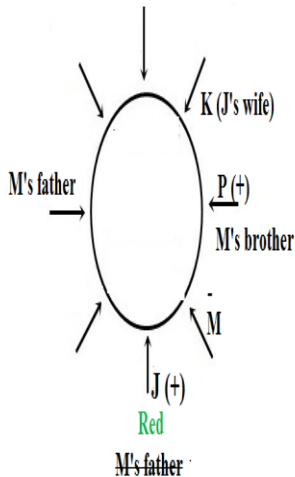
Explanation in detail: (completely modified)

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1. J is the head of the family (i.e. he is oldest person of the family) and sits third to the left of his wife K.
2. K has two sons and one of the son's like Green color.
3. Only two members are in first generation.
4. P has two sisters and sits second to the right of his grandfather, who likes Red color.



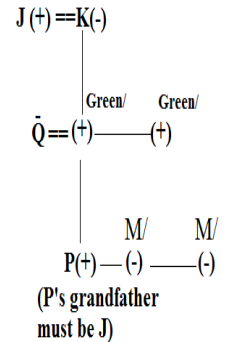
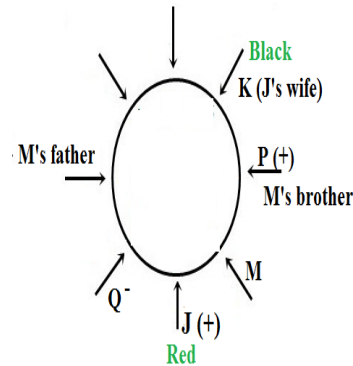
5. M sits on the immediate left of her brother, who sits in front of his father.



Note: If M is in 2nd generation, then J is the father of M, then we can't satisfy the 5th statement

Thus M must be in 3rd generation

6. Q sits in front of her mother-in-law who likes Black color.



Note: Q must be in 2nd generation, if Q is in 3rd generation then the family have 9 members

Final arrangement:

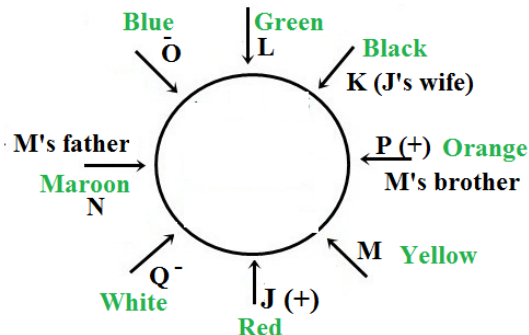
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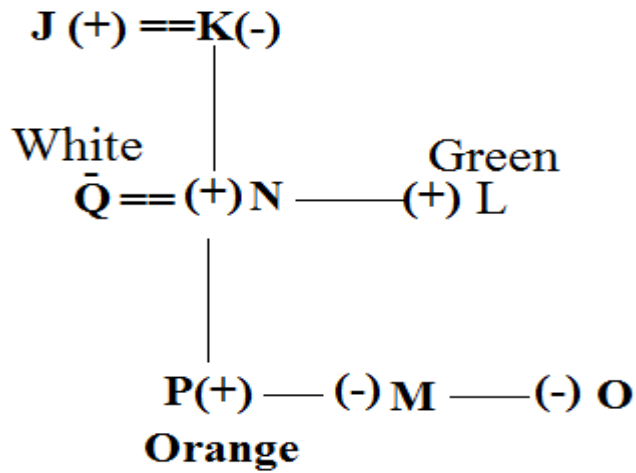
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7. L and his sister-in-law like Green and White colors respectively.
8. O sits between the person who like Maroon color and the person who like Green color and her favorite color is Blue.
9. N's son likes Orange color.



SBI Clerk/ RBI Assist. Mains – Reasoning

Final Blood relation



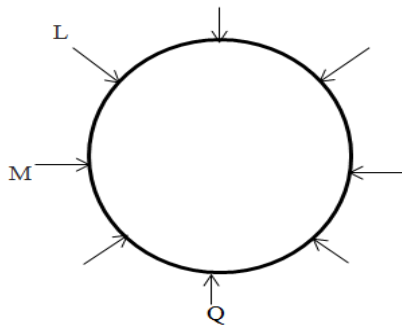
31. a
32. A
33. e
34. d
35. d

SOLUTION (36-40):

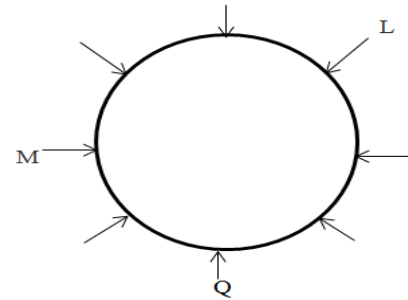
Explanation in detail:

1. M sits second to the left of Q.
2. Two persons are sitting between Q and L.

CASE1:

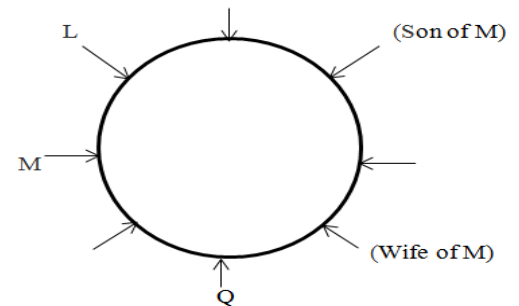


CASE2:

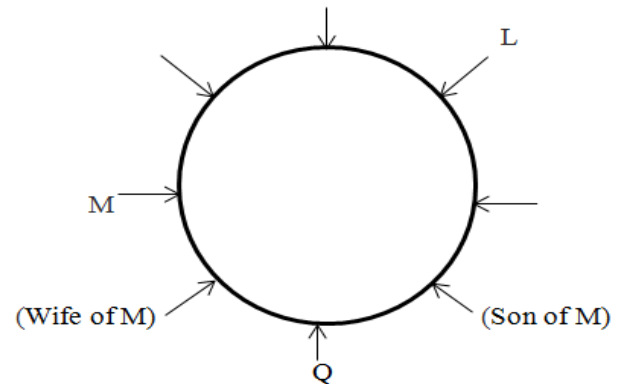


3. Three persons are sitting between L and the wife of M.
4. The son of M sits second to the right of the wife of M.

CASE1:



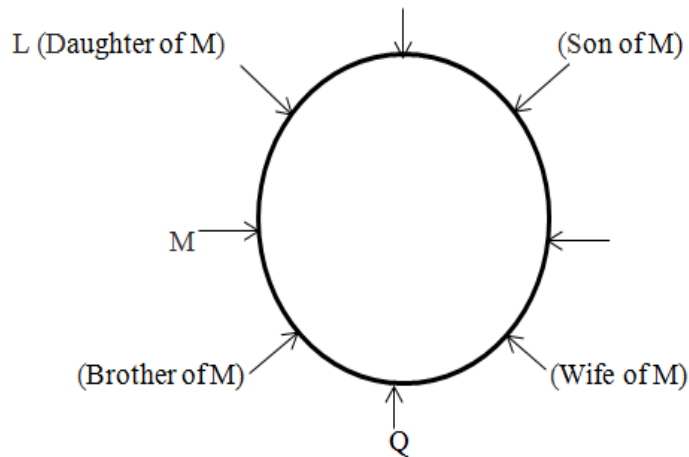
CASE2:



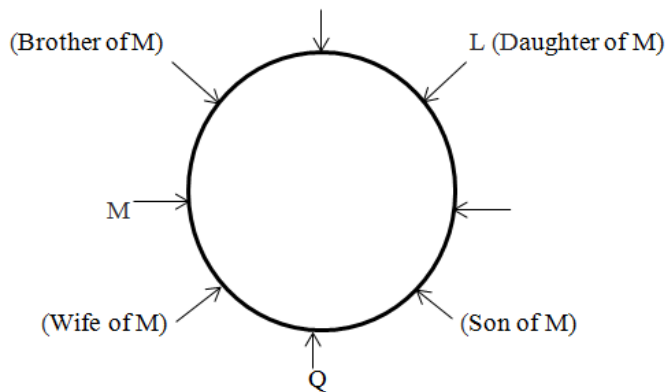
SBI Clerk/ RBI Assist. Mains – Reasoning

5. Three persons are sitting between the son of M and the brother of M.
6. The daughter of M sits second to the left of the brother of M.

CASE1:

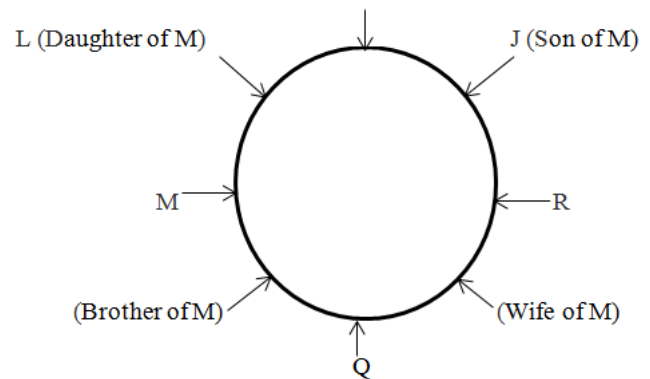


CASE2:

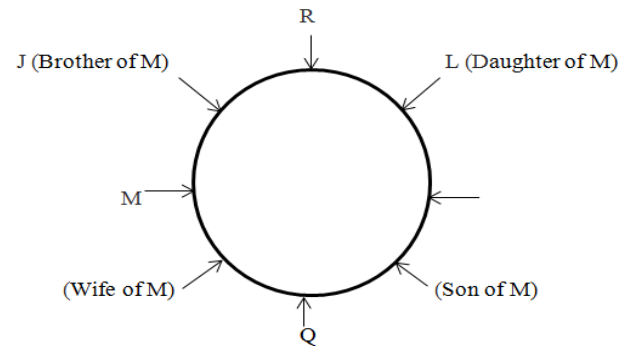


7. J sits to the immediate right of R.
8. R is neither son nor wife of M.

CASE1:

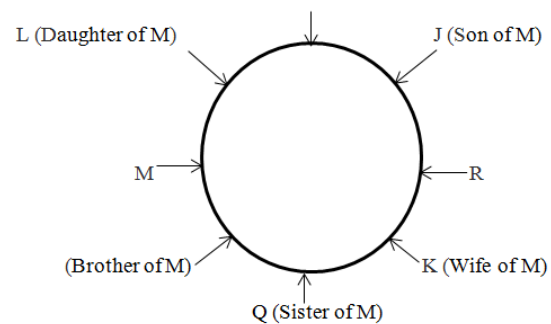


CASE2:



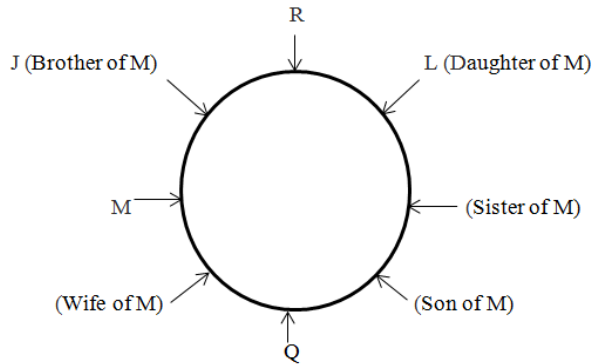
9. The sister of M is sitting second to the left of R.
10. K sits to the immediate right of the sister of M.

CASE1:



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CASE2:

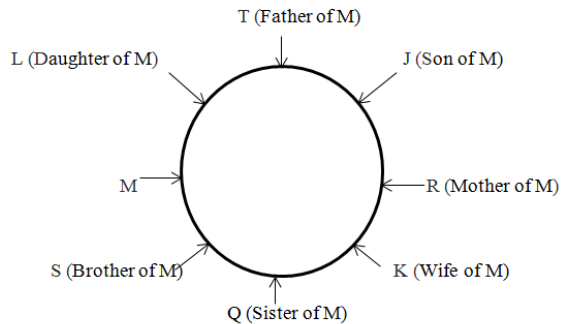


So there is no space for K in CASE2 so CASE2 is cancelled out.

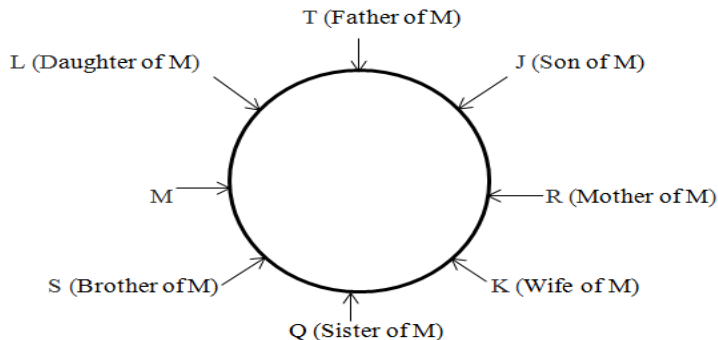
11. Two persons are sitting between K and the father of M.

12. T sits second to the right of the mother of M.

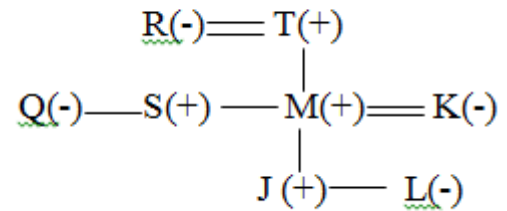
CASE1:



Final arrangement:



Blood relation:



36. a

37. c

38. b

39. c

40. e

SOLUTION (41-45):

Explanation in detail:

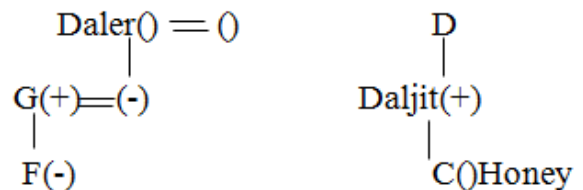
26. F is unmarried female who likes Badshah.

27. E and F belongs to the same gender.

28. G who is son in law of who likes Daler, likes Tony.

29. F is daughter of the person who likes Tony.

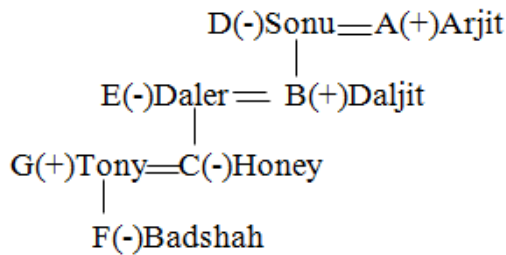
30. D's son likes Daljit whose daughter is C, who likes Honey.



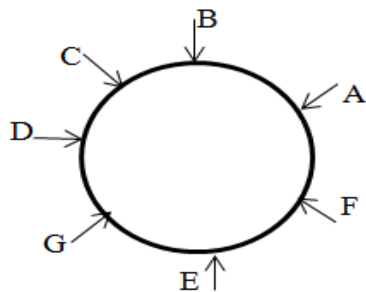
31. The father of who likes Badshah is not sitting near to any male person.

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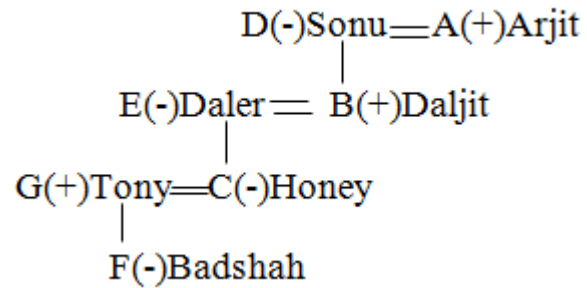
32. The son in law of who likes Daljit is not an immediate neighbor of who likes Badshah and Daljit.
33. A, the eldest person in the family likes Arjit but the wife of A does not likes Daler.
34. The person who likes Sonu is sitting second to the right of father of the person who likes Honey.
35. The one who likes Daljit is second to the right of the person who is unmarried female.



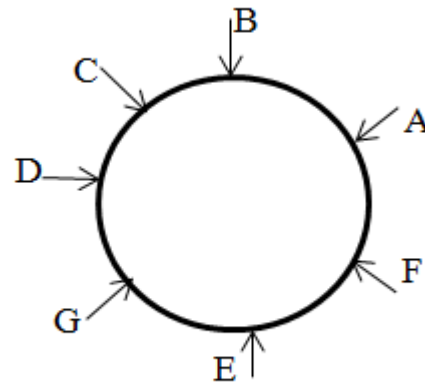
36. No spouse sitting together.
37. G is not sitting near to any male person.
38. G is not an immediate neighbor F and B.
39. D is sitting second to the right of B.
40. B is second to the right to the F.



Blood relation:



Final arrangement:



41. d
42. a
43. c
44. a
45. b

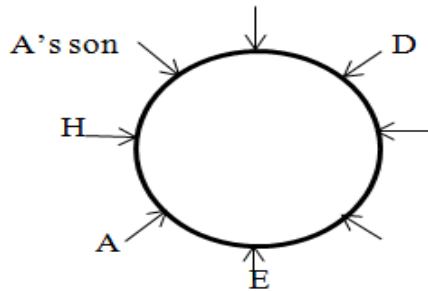
SOLUTION(46-50):

Explanation in detail:

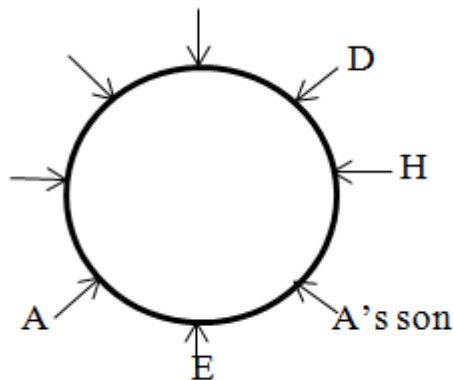
20. A sits to the immediate left of E.
21. D sits third to the right of E.
22. Only one person sit between A's son and D.
23. H sits to the immediate right of A's son.

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CASE1:



CASE2:

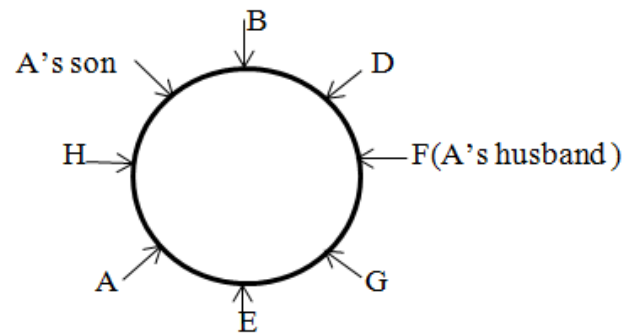


24. A's husband and H are sitting opposite to each other.

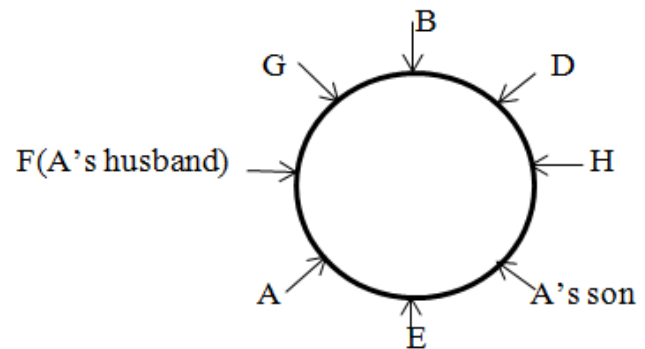
25. F sits to the immediate right of G.

26. Only one person sits between A's husband and B.

CASE1:



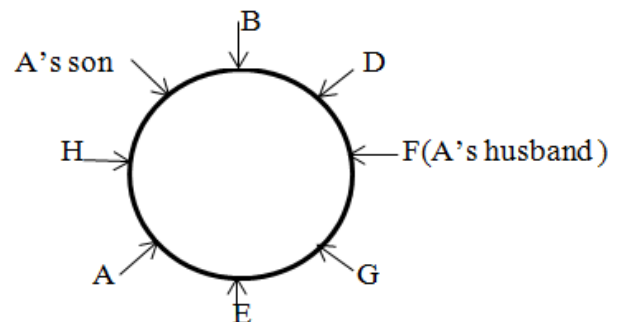
CASE2:



27. C sits to the second to the left of A's daughter.

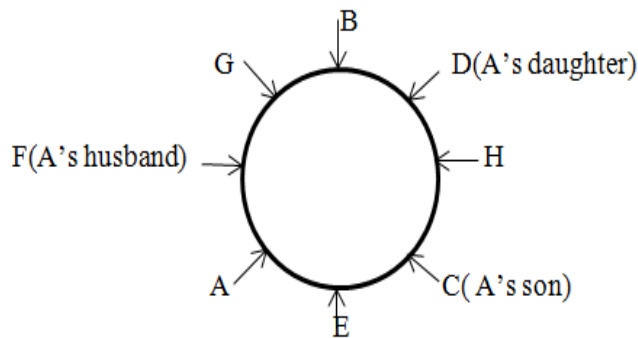
So CASE1 is cancelled out

CASE1:

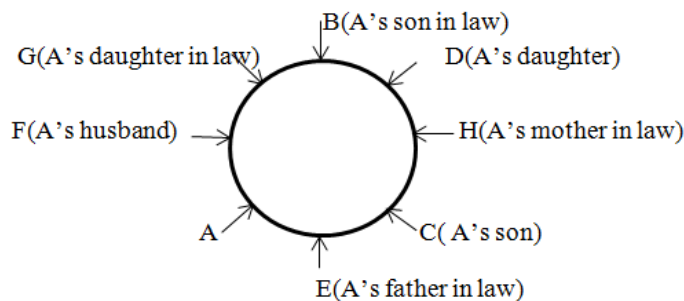


CASE2:

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28. A's daughter in law sits third to the right to the A's mother in law.
29. A's father in law sits second to the right of F.
30. A's father in law and A's son in law are sitting opposite to each other.

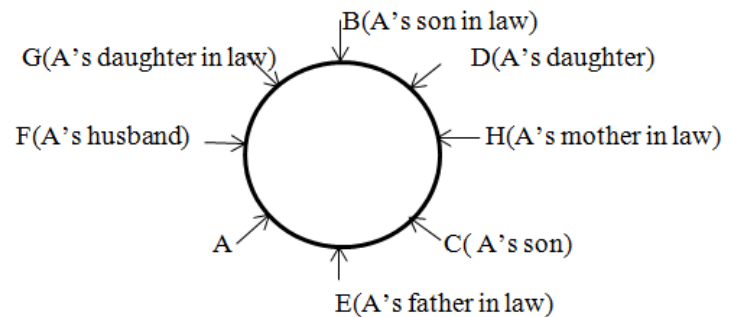


Blood relation:

$$\begin{array}{c} E(+)=H(-) \\ | \\ F(+)=A(-) \\ | \\ B(+)=D(-) \quad \text{---} \quad C(+)=G(-) \end{array}$$

Final

arrangement:



46. b
47. d
48. a
49. a
50. e

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Seating Linear with Distance

Directions: Study the following information and answer the questions following.

Sports Council meeting is going on in a school about the football matches which will be conducted. 6 members from two teams are sitting facing each other around a rectangular table of dimensions (15m x 4m). Team 1 is facing South side. All the members are at equidistant points.

i) P, Q, R, S, T and U constitute of Team 1. A, B, C, D, E and F constitute Team 2.

ii) P and U are at extreme ends of the table and are 15m apart.

iii) R sits 6m to the East of P and 9m to the West of U.

iv) T is not an immediate neighbor of R, but sits exactly opposite to D, which is 12m to the East of A.

v) Q sits 5m to the North East of A and 5m to the North West of B.

vi) C is not an immediate neighbor of D.

vii) F sits to $\sqrt{52}$ m South West of S and is 6m to the left of E.

1) Who among the following sits at the extreme end of the table?

- a. P, T
- b. T, A

c. U, B

d. P, F

e. A, Q

2) How far is U from A?

a. 16 m

b. 225 m

c. $\sqrt{241}$ m

d. 241 m

e. 15 m

3) If E and R interchange their positions, then how far is E from U?

a. 7 m

b. 9 m

c. 6 m

d. 8 m

e. 5 m

4) If E gets up from his position and walks towards Q, What will be the shortest possible distance covered by E?(neglecting practical cases)

a. $\sqrt{52}$ m

b. 10 m

c. 6 m

d. 9 m

e. None of these

5) If T and C leaves the meeting, and Q changes his seat such that, Q is now 5m to North West of F, then, what is the distance between Q and B?

- a. $\sqrt{52}$ m
- b. 36 m
- c. 6 m
- d. 4 m
- e. 3 m

Directions 6-10: Answer the questions based on the information given below:

Eight persons A, B, C, D, E, F, G and H are sitting in a row facing north direction. Each of them sits in a row with certain distance from one other viz. 5, 10, 15, 35, 45, 75, 90 and 125. They can be shifted as per the given information and create two arrangements – before and after arrangements.

The number of persons between C and F, before rearrangement, are three less than the number of persons between C and F, after rearrangement.

B, who is 10 meters away from the neighbor, sits to the immediate left of C, before rearrangement. Distance of F is 25 times the distance of the immediate left of A. F never sits adjacent to B. G his 15 meters away and sits to the immediate right of H, after movement. Three persons sit to the right of one, who is 125 meters away, before rearrangement. D, who is 75 meters away, shifted towards the fifth to the left of his original position. G sits adjacent to neither C nor D, after rearrangement. B moves to the

right of his original place and sits to the immediate left of E, after the movement. C sits at extreme right end after movement. A never sits adjacent to D or C. G moves to the one of the seats to his right. C sits at a distance of twice of the distance of E, who does not sit adjacent to D. The one, who is 45 meters away, is not an immediate neighbour of D. D is adjacent to F only after rearrangement.

6) Who among the following sits third to the right of the one is 125 meters away after rearrangement?

- a. H
- b. G
- c. C
- d. B
- e. None of these

7) Who among the following sits third to the left of H, after rearrangement?

- a. F
- b. The one, who is 15 meters away
- c. The one, who is 10 meters away
- d. E
- e. None of these

8) Who among the following sits at the extreme right end, before rearrangement?

- a. H
- b. F
- c. G
- d. D

e. None of these

9) Who among the following sits to the immediate left of the one, who sits at 45 meters away before arrangement?

a. H

b. E

c. G

d. C

e. None of these

10) What is the total distance to the left of G after rearrangement?

a. 940m

b. 950m

c. 960m

d. 955m

e. None of these

Directions: Answer the questions based on the information given below:

Eight persons, P, Q, R, S, T, U, V and W are sitting in a straight row. All of them are facing the north. Each person has different distance to their left.

@ A – One of the persons sitting adjacent to A is 16m away

A – Distance to the left of A is twice the distance to the left of the person sitting 2nd to the right of A.

% A- Difference in the distance to the left of A and the distance to the left of the person sitting at extreme right end is 3m

W is sitting adjacent to the person, who has 13 m distance to his left. Two persons are sitting between R and the person, who has 13m distance to his left. Three persons are sitting between P and T who is immediate neighbor of W. S is sitting immediately right of V who sits fourth from the right end. One person is sitting between the persons, who have 9m distance to his left and who have 13m distance to his left. 9. One of the persons sitting at the extreme end has 5m distance to his left. Two persons are sitting between U and the person has 9m distance to his left. Two persons are sitting between W and V and W sits to the right of V. Distance between Q and U is 12m. Distance to the left of W is 2m less than the distance to the left V.

@U #R %S

11) What is the sum of distance between T and V?

a. 20

b. 25

c. 17

d. 18

e. None of these

12) How many persons are sitting between P and Q?

a. 2

b. 3

c. 4

d. 1

e. None of these

13) ___ and ___ are sitting adjacent to R.

- a. P, V
- b. P, S
- c. S, V
- d. T, Q
- e. Cannot be determined

14) How many persons are sitting in the left of V?

- a. 3
- b. 4
- c. 2
- d. 1
- e. None of these

15) What is the total distance between W and S?

- a. 20
- b. 25
- c. 16
- d. 18
- e. None of these

Directions: Read the following information and answer the questions given below.

A certain number of children are sitting in a row facing north. The length of row is 121 m. The distance is in increasing order from left end starting from 6m, 7m, 8m and so on. They also live on a 9 storey building. The bottommost floor is numbered 1 and the topmost floor is numbered 9. Age of each of these children is different and the ages are 6, 8, 9, 10, 12, 13, 14, 16 and 18.

Distance between I and F is 10m. Distance between K and G is 2m more than the distance between I and F. K is the immediate neighbor of G but doesn't sit at the extreme end. H is sitting 2nd to the right of D. F is sitting 2nd to the right of H. E is sitting adjacent to B and the distance between them is 16m. F is sitting 2nd to the left of K. Distance between D and F is 30m. Distance between A and G is equal to the distance between H and I. G is sitting 3rd to the left of E. The bottommost floor is numbered 1 and the topmost floor is numbered 9.

2nd eldest child lives on floor 8. Child, who lives on floor 7, is seven years younger than I. Four children live above the 13 years old child. I is not 16 years old. D lives three floors below I. Eldest child lives two floors above H, who is not the youngest. H doesn't live adjacent to D's floor. More than two children live between eldest child and E, who is 10 years old. B lives three floors above C. Neither A nor B is 8 years old. F lives immediately below the 8 years old child. A lives above G. F is elder than B but younger than D.

16) What is the position of I with respect to H?

- a. 3rd to the right
- b. 4th to the right
- c. 2nd to the left
- d. 5th to the right
- e. None of these

17) How many persons are sitting in the row?

- a. 11
- b. 9
- c. 14
- d. 10
- e. 7

18) What is the position of A with respect to I?

- a. 3rd to the left
- b. 4th to the right
- c. 2nd to the left
- d. 5th to the right
- e. None of these

19) How many children live between F and 9 years old child?

- a. Four
- b. Five
- c. Two
- d. Six
- e. None of these

20) Who lives immediately above the 12 years old child?

- a. B
- b. C
- c. A
- d. H
- e. None of these

Directions: Answer the questions based on the information given below:

There are seven members P, Q, R, S, T, U and V in a family consist of three generations. None of the

parent has three or more than three children. Every person sits at different position with respect to each other having different number of chocolates. There is no single parent and two married couples in the family.

V sits 12m west to the only son of P. U is one of the two daughters of R and has 5 chocolates less than V. Mother of S sits 3m west to the person, who is 10m south of S, who is not married. S is not in the 3rd generation but has 2nd highest number of chocolates. P sits 4m north to the person who has 2nd lowest number of chocolates. Q has more chocolates than only R. T is not a female. The person who sits 10m north of U is U's sister. T has more chocolates than P but less than U. The person with 3rd highest number of chocolates sits 5m south west of T. R does not belong to the 1st generation. T is not in the same generation as P. T is not the son of P. Q is not in 3rd generation. Q and R have same gender. One of the person sits exactly to the west of P. U doesn't have highest number of chocolates.

21) What is the direction of the person who has 4th lowest number of chocolates with respect to the sister of U?

- a. North east
- b. South east
- c. North west
- d. South west
- e. None of these.

22) If difference between the number of chocolates with U and the father of S is 8 and P has 9 chocolates, how many chocolates does V have?

- a. 20
- b. 17
- c. 22
- d. 23
- e. None of these.

23) What is the shortest distance between the point which is 6m south of the person with highest number of chocolates and the point which is 4m north of the person with least chocolates?

- a. 12m
- b. 14m
- c. 17m
- d. 13m
- e. None of these.

24) What is the direction of the person with 3rd highest number of files with respect to T's brother-in-law?

- a. North-east
- b. South-east
- c. South-west
- d. North-west
- e. None of these.

25) Who is the father of U?

- a. S
- b. P

- c. T
- d. R
- e. Q

Directions: Answer the questions based on the information given below:

10 persons A, B, C, D, E, P, Q, R, S and T sit in two parallel rows in such a way that persons sitting in row 1 faces in south while persons sitting in row 2 faces in north. Persons of Row 1 exactly face the another person of row 2. Every person have different age i.e. 20, 24, 27, 31, 32, 36, 37, 39, 42 and 45. Distance between any two adjacent persons is equal. The distance between the two parallel rows is 10m. 36 years old faces the person who sits 2nd to the right of B. T sits 2nd to the left of 5th eldest person.

C sits to the immediate right of E and faces north. A faces north. A faces the person, who sits to the immediate left of 2nd eldest person. Q sits to the immediate right of the person, who is 31 years old.

P sits 2nd to the right of R. Two persons sit between T and the person, whose age is a prime number.

R is 27 years old, faces South and sits opposite to the one, who sits to the immediate right of D. 3rd youngest person sits to the immediate right of 37 years old person. D is 2nd youngest person.

By making the above arrangement, every person moves in a certain direction according to the following conditions given below-

1. E, who is 8 years older than D, moves 18m straight, then turns left of 12m. He walks another 8m towards south and meets the person, whose age is less than 36 years. He exchanges his seat with that person.

2. After that, the person who sits to the immediate right of E, turns right and walks for 3m to turn left and walks another 15m. After that he again turns left and covers 9m to turn left and walks 5m and meets the person, who is elder than him. He exchanges his seat with him.

3. After that, C, who is not the youngest person, turns back and moves 4m to turn right. He walks 18m and turns right to walk another 14m. He meets a person with whom he exchanges his seat.

26) What is the position of the youngest person with respect to P after all the replacements?

- a. 4th to the left
- b. Immediate right
- c. 2nd to the right
- d. 3rd to the left
- e. None of these.

27) Who among the following doesn't form a group after the 3rd replacement?

- a. B
- b. P
- c. E
- d. T
- e. A

28) What is the shortest distance between the eldest and the 2nd youngest person after the 3rd replacement?

- a. 18m
- b. Between 18m and 21m
- c. Between 21m and 24m.
- d. Between 15m and 18m
- e. None of these.

29) After the 1st replacement, what is the distance between P and A?

- a. 12m
- b. 18m
- c. Between 18m and 23m
- d. 6m
- e. None of these.

30) After the 2nd replacement, what is the distance between C and Q?

- a. 12m
- b. 18m
- c. Between 18m and 23m
- d. 6m
- e. None of these.

Directions: Answer the questions based on the information given below.

Directions: Answer the questions based on the information given below.

Six persons P, Q, R, S, T and U sit in a row facing north. The persons are sitting from left to right such that there is a gap of 5m between two adjacent

persons. The distance between leftmost and rightmost person is 25m. Four persons move from their seats. Each of them has different number of pens from 5 to 10. No person moves beyond the leftmost and rightmost person. They are standing according to increasing order of number of pens from left to right.

R moves 5m in the north and walks 15m in either west or east direction.

P has 2 pens lesser than R but more than that of Q.

S has highest number of pens and after movement he stands 10m from east of T.

P moves 10m in north and then moves 10m in the east.

S can only walk in south direction.

T walks 8m in south and then moves 5m in east or west direction.

31) Who among the following has lowest number of pens?

- a. U
- b. T
- c. Q
- d. R
- e. P

32) What is the shortest distance between the final position of P and T?

- a. 10m
- b. 8m
- c. 16m

d. 17m

e. 23m

33) Who among the following has 9 pens?

- a. T
- b. U
- c. S
- d. Q
- e. Cannot be determined

34) Who is in the north of Q after movement?

- a. P
- b. T
- c. R
- d. S
- e. None of these

35) How many pens does S have?

- a. 5
- b. 10
- c. 6
- d. 7
- e. None of these

Directions: Answer the questions based on the information given below.

Eight persons L, M, N, O, P, Q, R and S are sitting at random places with some distance from each other. Each of them has different number of boxes.

L is sitting 12m north to the person, who has the second lowest number of boxes. P has lesser boxes than one of the persons sitting in the south west of P.

Q has more boxes than at least two persons. R is

sitting 6m east to Q, who is sitting 11m north to P. L is sitting north west to P and has less number of boxes than P. O is sitting 8m west to P. N is sitting 6m east to M. R is sitting 25m north to S, who has the highest number of boxes. L has more boxes than O, who has more boxes than Q. N is sitting 10m in the south of O. N has more boxes than O.

36) What is the shortest distance between M and the person, who has the lowest number of boxes?

- a. 28m
- b. 26m
- c. 29m
- d. 19m
- e. None of these

37) If Q has 39 boxes, then what is the possible number of boxes with M?

- a. 40
- b. 45
- c. 30
- d. 41
- e. Cannot be determined

38) How many persons have less number of boxes than the person, who is sitting North West to the person, who has 2nd highest number of boxes?

- a. 4
- b. 3
- c. 1
- d. 5
- e. 2

39) What is the direction of the person, who has 3rd lowest number of boxes with respect to O?

- a. North
- b. South west
- c. North east
- d. South
- e. None of these

40) How many persons have more boxes than the person, who is sitting south east to M?

- a. Three
- b. Zero
- c. Four
- d. Six
- e. None of these

Directions: Read the given information carefully and answer the questions.

A certain number of persons are sitting in a straight row. All of them are facing north. Six of them have six different cars among, Audi, Baleno, Porsche, Bolero, Swift and Rexton.

Person, who has Rexton, is sitting 3rd from the left end. One person is sitting between B and S and distance between both of them is 20m. Two persons sit between the persons, who have Rexton and Baleno. Four persons are sitting between S and the person, who has Baleno. M is sitting 4th to the right of B. Person, who has Swift is sitting at the right end. Five persons are sitting between R, who has Porsche and the person, who has Swift. Five persons are

sitting between R and D. Two persons are sitting between K and the person, who has Audi. K is sitting 2nd to the left of D and distance between them is 20m. Two persons are sitting between M and the person, who has Audi. Number of persons sitting between M and R is a prime number. Distance between M and K is 50m. Number of persons sitting between D and the person, who has Baleno is less than 10. The number of persons sitting in the left of K is equal to the number of persons sitting in the right of the person, who has Bolero. Distance between B and M is 30m.

41) How many persons are sitting in the row?

- a. 25
- b. 27
- c. 24
- d. 31
- e. None of these

42) Who has Bolero?

- a. B
- b. S
- c. M
- d. D
- e. None of these

43) If 7 persons are sitting between D and H, then how many persons are sitting between H and S?

- a. 21
- b. 20
- c. 25

d. 19

e. 16

44) What is the total distance between S and K?

- a. 90m
- b. 80m
- c. 100m
- d. 110m
- e. None of these

45) How far is B from D?

- a. 90m
- b. 80m
- c. 100m
- d. 110m
- e. None of these

Directions: Answer the questions based on the information given below.

Seven candidates P, Q, R, S, T, U and V like different colors and stand at different places. Each of them appeared for PO Mains exam and scored different marks (in integers).

One of the candidates likes Pink. Three candidates score more than S, who stands 6m north of Q. The candidate who likes Violet and sits 7m east of S, scores less than S. Candidate who scores the 2nd lowest scores 97 marks. The highest scorer stands 8m east of T, who likes Red. P scores more than S and sits 6m south of T. More than two candidates score less than T. Difference between the marks of S and the one who likes Violet is less than the

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difference of marks of S and Q. R doesn't score the highest marks. Neither U nor V likes Violet. U stands 9m south of R, who scores 105 marks. V scores 3 marks less than U. The candidate, who stands at extreme east, likes Green and sits at a distance of 6m from the person, who likes Blue. Person who stands at the extreme south likes neither Magenta nor Yellow. Candidate who likes Yellow scores more than the one, who likes Magenta.

46) How many marks does T score?

- a. 96
- b. 84
- c. 94
- d. 125
- e. 105

47) What is the shortest distance between the candidate who likes Green and the one who likes Magenta?

- a. Between 12m and 17m.
- b. Between 17m and 21m.
- c. Between 21m and 24m
- d. Less than 12m
- e. More than 24m.

48) If the difference between the marks of P and U is 44 marks and T scores 53 marks more than

V then what is the difference between the marks of highest scorer and T if the difference between the marks of the candidate who likes Yellow and T is two marks more than the difference between the 2nd and 3rd highest scorer?

- a. 6 marks
- b. 8 marks
- c. 11 marks
- d. 13 marks
- e. None of these

49) The person, who stands in the north east of Q, likes ____ color.

- a. Red
- b. Pink
- c. Violet
- d. Magenta
- e. None of these

50) Who likes Yellow color?

- a. S
- b. R
- c. Q
- d. U
- e. V

Seating Linear with Distance - Answer and Explanation

Answers: 1-5

- 1) D
- 2) C

- 3) B
- 4) A
- 5) A

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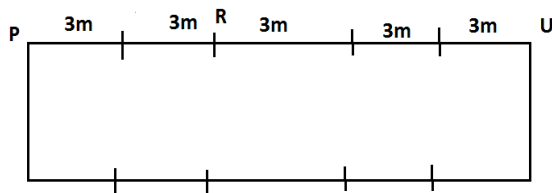
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Solution: 1-5

i) P, Q, R, S, T and U constitute of Team 1. A, B, C, D, E and F constitute Team 2.

ii) P and U are at extreme ends of the table and are 15m apart.

iii) R sits 6m to the East of P and 9m to the West of U.



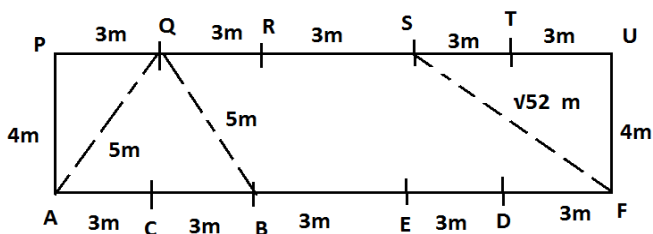
iv) T

is not an immediate neighbor of R, but sits exactly opposite to D, which is 12m to the East of A.

v) Q sits 5m to the North East of A and 5m to the North West of B.

vi) C is not an immediate neighbor of D.

vii) F sits to $\sqrt{52}$ m South West of S and is 6m to the left of E.



Answers:

6. b

7. e

8. d

9. e

10. d

Solutions: 6-10

1. B, who is 10 meters away from the neighbor, sits to the immediate left of C, before rearrangement.

2. F distance is 25 times the distance of the immediate left of A. F never sits adjacent to B.

So, F and A have 125 and 5 meters respectively.

3. G is 15 meters away and sits immediate right of H, after movement.

4. Three persons sit to the right of one, who is 125 meters away, before rearrangement.

5. D, who is 75 meters away, shifted fifth to the left of his original position.

6. C distance is 2 times than that of E.

So, C and E are 90 and 45 meters away respectively.

So, there are three cases,

Before arrangement			B(10)	C	F(125)			D
After arrangement			D	F(125)	H	G	B	C

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SBI Clerk/ RBI Assist. Mains – Reasoning

Case 1

Before arrangement	G	B(10)	C(90)	A	F(125)		D(75)	
After arrangement	A	D(75)	F(125)	H	G	B	E	C

Case 2

Before arrangement	B(10)	C(90)	G	A(5)	F(125)			D
After arrangement	A(5)	F(125)	D(75)		G(15)	B		C

Case 3

7. The one, who is 45 meters away, does not sit adjacent to D.

8. C sits at extreme right end only after movement.

9. D is adjacent to F only after rearrangement.

10. B moves to the right of his original place and sits immediate left of E, after the movement.

Before arrangement	B(10)	C(90)	G(15)	A(5)	F(125)	E(45)	H(35)	D(75)
After arrangement	A(5)	F(125)	D(75)	H(35)	G(15)	B(10)	E(45)	C(90)

So, case 1 is rejected.

11. A never sits adjacent to D or C.

So, case 2 is rejected.

The final arrangement is shown below:

Answer:

11) C

12) D

13) A

14) B

15) A

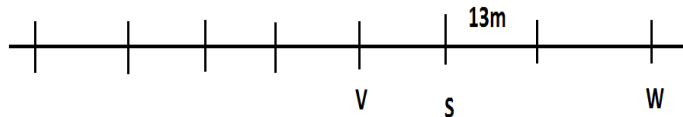
Solutions 11-15

SBI Clerk/ RBI Assist. Mains – Reasoning

1. S is sitting immediately right of V who sits fourth from the right end.

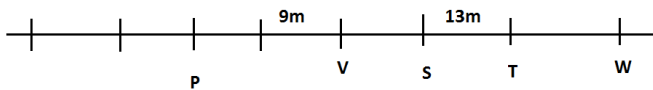
2. Two persons are sitting between W and V and W sits to the right of V.

3. W is sitting adjacent to the person, who has 13 m distance to his left.



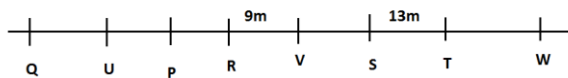
4. Three persons are sitting between P and T who is immediate neighbor of W.

5. One person is sitting between the persons, who have 9m distance to his left and who have 13m distance to his left.



6. Two persons are sitting between R and the person, who has 13m distance to his left.

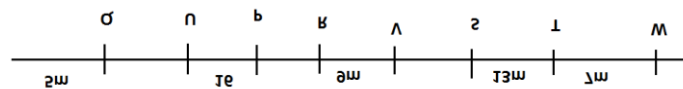
7. Two persons are sitting between U and the person has 9m distance to his left.



8. Distance to the left of W is 2m less than the distance to the left V.

9. One of the persons sitting at the extreme end has 5m distance to his left.

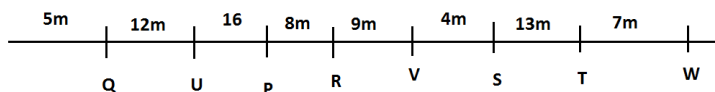
@U- One of the persons sitting adjacent to U is 16m away



#R – Distance to the left of R is twice the distance to the left of the person sitting 2nd to the right of R.

%S - Difference in the distance to the left of S and the distance to the left of the person sitting at extreme right end is 3m

10. Distance between Q and U is 12m.



Answers:

16) A

17) B

18) B

19) B

20) D

Solutions: 16-20

The length of the table is 121 m as given. As we know, the distance between the adjacent persons is in increasing order from 6m, 7m and so on. By adding 6m to 16m, it sum up to 121m as per question.

1. Distance between I and F is 10m.

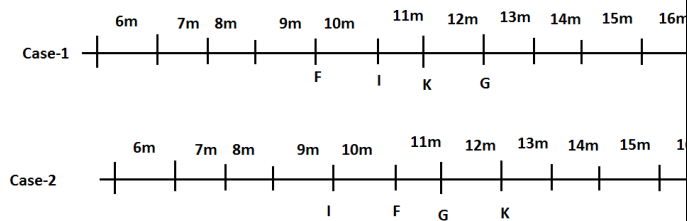
2. Distance between K and G is 2m more than the distance between I and F.

Distance between K and G = 10 + 2 = 12m

3. F is sitting 2nd to the left of K.

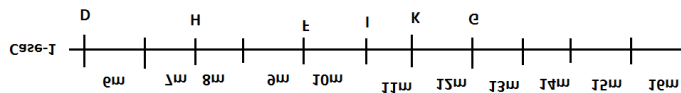
Here, we have two cases-

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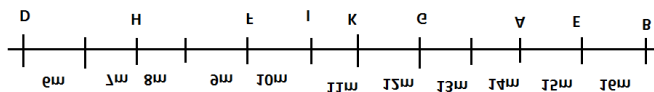
4. H is sitting 2nd to the right of D.
5. F is sitting 2nd to the right of H.
6. Distance between D and F is 30m.

Hence, Case-2 is eliminated because no distance between D and F sums up to make distance of 30 m



7. E is sitting adjacent to B and the distance between them is 16m.
8. G is sitting 3rd to the left of E.
9. Distance between A and G is equal to the distance between H and I.

The final arrangement:



10. 2nd eldest child lives on floor 8.
11. Child, who lives on floor 7, is seven years younger than I.
12. I is not 16 years old, so I must be 13 years old.
13. Four children live above the 13 years old child, so

Floors	Children	Ages
9		

8		16
7		6
6		
5	I	13
4		
3		
2		
1		

14. D lives three floors below I, so D lives on floor 2.
15. Eldest child lives two floors above H, who is not the youngest.
16. H doesn't live adjacent to D's floor, so 18 years old child lives on floor 6 and H lives on floor 4.
17. More than two children live between eldest child and E, who is 10 years old, so E lives on floor 1.
18. B lives three floors above C, so B either lives on floor 9 or floor 6.

Case I: B lives on floor 9:

Floors	Children	Ages
9	B	
8		16
7		6

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6	C	18
5	I	13
4	H	
3		
2	D	
1	E	10

Case II: B lives on floor 6:

Floors	Children	Ages
9		
8		16
7		6
6	B	18
5	I	13
4	H	
3	C	
2	D	
1	E	10

19. F lives immediately below the 8 years old child.

20. Neither A nor B is 8 years old.

21. A lives above G, this is not possible in case II, so case II is rejected.

22. F is elder than B but younger than D, so F is 12 years old, B is 9 years old and D is 14 years old.

The final table is given below:

Floors	Children	Ages
9	B	9
8	A	16
7	G	6
6	C	18
5	I	13
4	H	8
3	F	12
2	D	14
1	E	10

Answers:

21. B

22. C

23. A

24. C

25. C

Solutions: 21-25

As per the given instructions, first we form the blood relation among the family members-

1. U is one of the two daughters of R and has 5 chocolates less than V. R is not in 1st generation.

2. V sits 12m west of the only son of P, so

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Case 1 – P may have one son and one daughter.

(1a case) – R is a son of P.

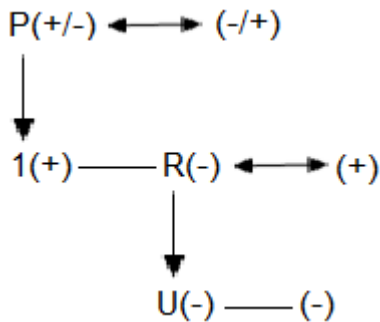
(1b case) – R is a daughter of P.

Case 2 – P may have only one son.

Case 1a: R is male member with one sister.

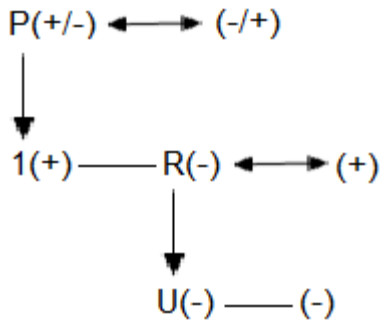
Let the daughter of P is denoted as 1.

Family Tree:



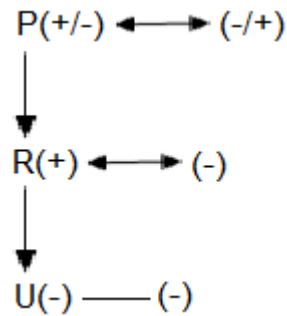
Case 1b – R is the daughter of P having one brother.

Family Tree:



Case 2: R is the only son of P.

Family Tree:



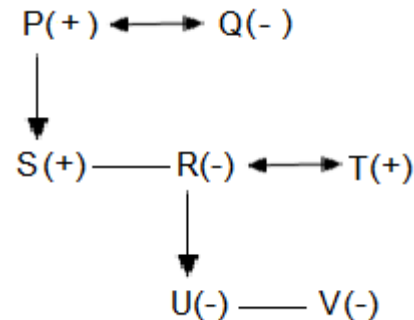
3. Q is not in 3rd generation. Q and R have same gender.

4. S is not in the 3rd generation but has 2nd highest number of chocolates. Mother of S sits 3m west of the person, who is 10m south of S, who is not married.

5. T is not in the same generation as P. T is not the son of P. T is not a female member.

By the above conditions, Case 1a and case 2 are eliminated.

Family Tree:



Now, we solve the other part of the question means direction sense and number of chocolates they have.

6. V sits 12m west to the only son of P means V sits 12m west of S.

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7. Mother of S sits 3m west to the person, who is 10m south of S, who is not married.

Mother of S is Q.

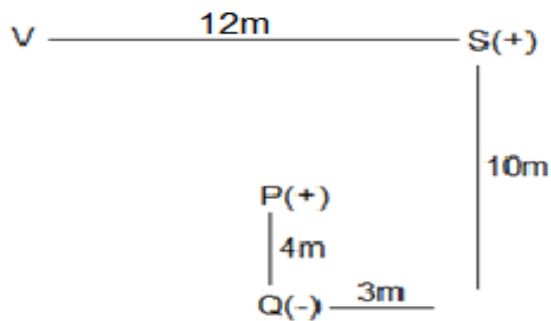
8. S is not in the 3rd generation but has 2nd highest number of chocolates.

9. P sits 4m north to the person who has 2nd lowest number of chocolates. Q has more chocolates than only R

Distribution of number of chocolates-

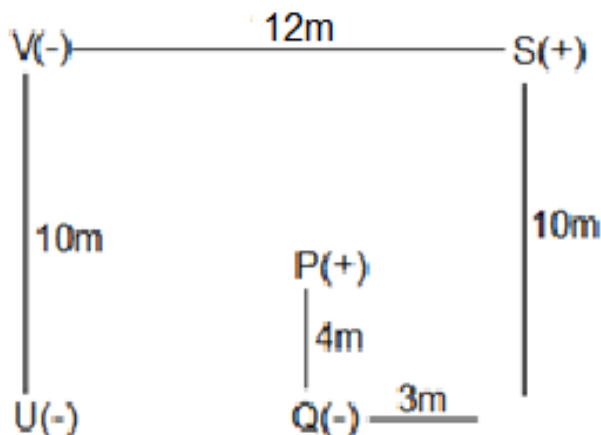
___ > S > ___ > ___ > ___ > Q > R

Direction Diagram:



10. The person who sits 10m north of U is U's sister.

Direction Diagram:



11. T has more chocolates than P but less than U.

12. U doesn't have highest number of chocolates.

Number of Chocolates:-

$V > S > U > T > P > Q > R$

12. The person with 3rd highest number of chocolates sits 5m south west of T.

13. Remaining position to the 10m south of S is allotted to R.

14. One of the persons sits exactly in the west of P.
It means T sits west of P.

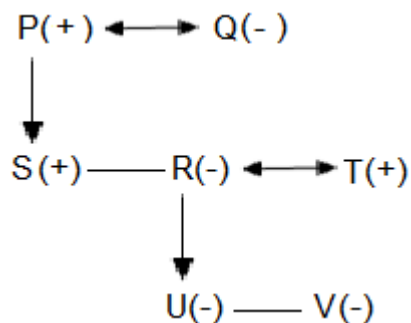
Distance between T and P can be calculated by Pythagorean Theorem-

$$(\text{Hypotenuse})^2 = (\text{Height})^2 + (\text{Base})^2$$

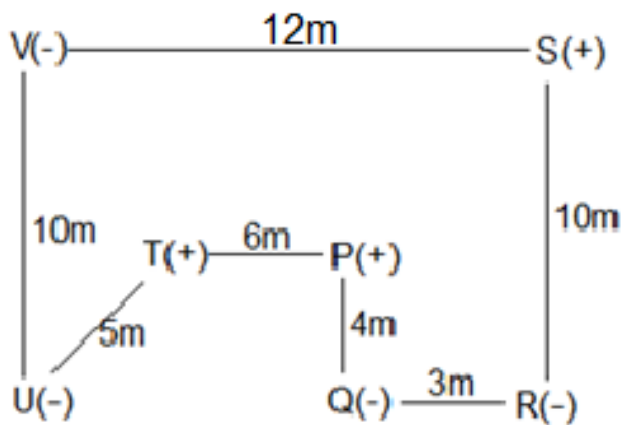
$$(5)^2 = (4)^2 + (\text{Base})^2$$

$$\text{Base} = 3\text{m}$$

$$\begin{aligned} \text{Distance between T and P} &= (\text{Distance between V and S}) - (\text{Base} + \text{distance between Q and R}) \\ &= 12\text{m} - 6\text{m} = 6\text{m} \end{aligned}$$



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$V > S > U > T > P > Q > R$

Answers:

26. D

27. B

28. D

29. A

30. B

Solutions: 26-30

1. As 36 years old faces the person, who sits 2nd to the right of B.

2. T sits 2nd to the left of 5th eldest person. (5th eldest person is 36 years old.)

3. Two persons sit between T and the person, whose age is a prime number.

Case 1-

Row 1		31/37	36		T
Row 2	B				

Case 2:-

Row 1					B
-------	--	--	--	--	---

Row 2	T		36	31 / 37	
-------	---	--	----	---------	--

4. R is 27 years old, faces south and faces the person who sits to the immediate right of D.

5. P sits 2nd to the right of R

6. 3rd youngest person sits immediate right of 37 year old person. (3rd youngest person means 27 years old i.e. R)

7. Q sits immediate right of the person, who is 31 years old.

Case I:

Row 1	Q	P (31)	36	R(27)	T(37)
Row 2	B		D		

Case 2(a):

Row 1		P		R(27)	B(37)
Row 2	T		D(36)	31	Q

Case 2(b):

Row 1	P		R(27)	(37)	B
Row 2	T	D	36	31	Q

8. C sits immediate right of E and faces north.

9. E is not 31 years old. A faces north.

In case 2a and 2b, C, E and A doesn't face North direction. So these cases are eliminated.

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10. A faces the person, who sits immediate left of 2nd eldest person (42 years old).

11. D is the second youngest person.

Case I:

Row 1	Q(42)	P(31)	36	R(27)	T(37)
Row 2	B	A	D(24)	E	C

12. Remaining S is 36 years old.

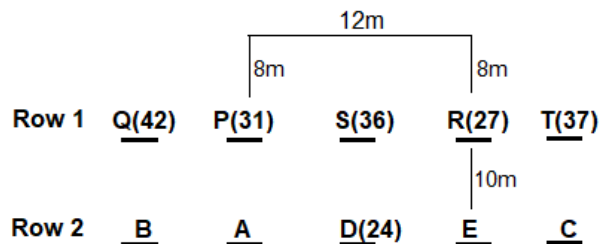
Row 1 Q(42) P(31) S(36) R(27)

Row 2 B A D(24) E

After the arrangement:

E, who is 8 years elder than D, moves 18m straight, then turns left and move another 12m to turn left again. He walks another 8m and meets the person, whose age is less than 36 years. He exchanges his seat with that person.

Age of E becomes $24 + 8 = 32$ years old.



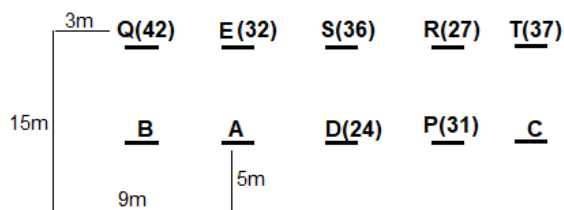
After 1st replacement:

Row 1 Q(42) E(32) S(36) R(27) T(37)

Row 2 B A D(24) P(31) C

After that the person who sits immediate right of E, turn right and walks for 3m to turn left and walks another 15m. After that he again turns left and covers 9m to turn left and walks 5m and meets the person, who is elder than him. He exchanges his seat with him.

A is elder than Q, it means A must be 45 years old.



After 2nd replacement:

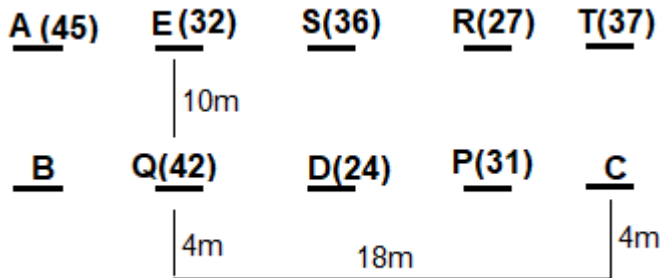
A(45) E(32) S(36) R(27) T(37)

B Q(42) D(24) P(31) C

After that, C, who is not the youngest person, turns back and moves 4m to turn right. He walks 18m and turn to walk another 14m. He meets a person with whom he exchanges his seat.

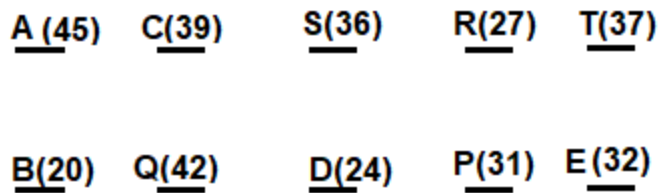
C is not the youngest among all, it means C is 39 years old and remaining B becomes 20 years old.

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After 3rd replacement:

Final arrangement



Answers:

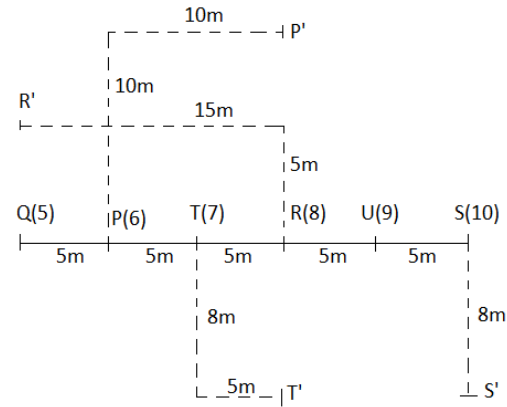
31. C
32. E
33. E
34. C
35. B

Solutions 31-35

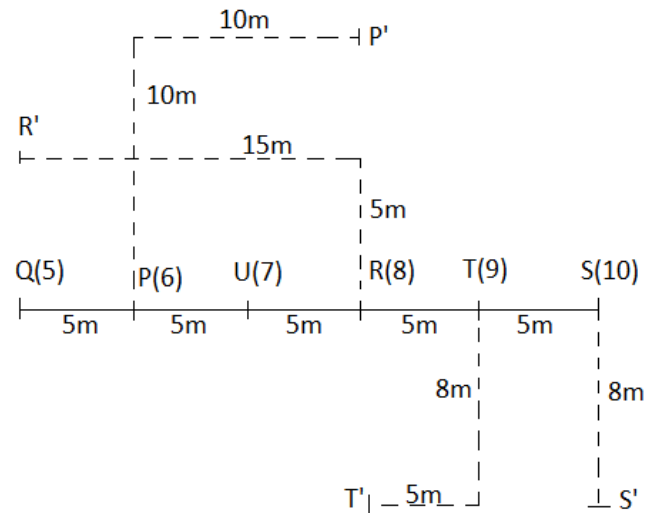
1. R moves 5m in the north and walks 15m in either west or east direction.
2. P has 2 pens lesser than R but more than that of Q.
3. P moves 10m in north and then 10m in the east.
So, P can have either 6 or 7 pens.
4. T walks 8m in south and then 5m in east or west direction.
5. If P has 7 pens then T must have 8 pens but then S cannot be 10m away in the west of T.

So, P must have 6 pens and R must have 8 pens.

Also, then T can have 7 or 9 pens. So, we have two possibilities,



Or



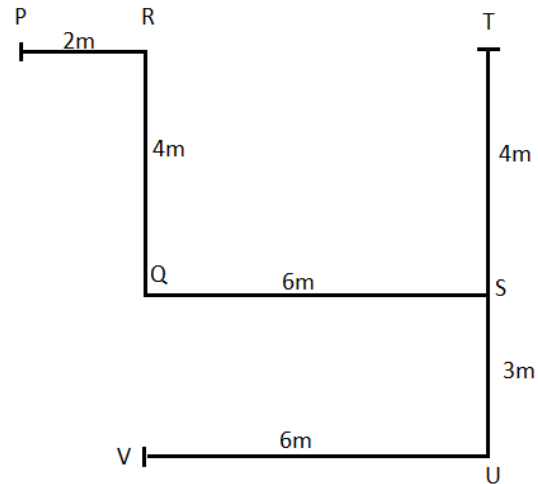
Answers: 36-40

36. C
37. C
38. A
39. C
40. B

Solutions: 36-40

1. V, who secures better marks than S and U and is 6m to the west of U.
 2. P secures better marks than only one, who is 2m to the east of him.
 3. R is 6m west of T. T secures better marks than R but not S.
- So, R must secure the worst marks.
4. T is 7m north of one, who secures better marks than three persons only.
- So, U must be the one, who secures better marks than three persons only.
5. Number of persons, who score more marks than S are not equal to the number of the persons, who score less marks than S.
 6. S is 6m to the east of one, who secures highest marks.

Therefore, Q secures highest marks. So, we have,
 $Q > V > S > U > T > P > R$



Answers: 36-40

36. C
37. C
38. A
39. C
40. B

Solutions: 36-40

1. L is sitting 12m north to the person, who has the second lowest number of boxes.
2. R is sitting 25m north to S, who has the highest number of boxes.
3. L has more boxes than O, who has more boxes than Q.
4. Q has more boxes than at least two persons.
5. R is sitting 6m east to Q, who is sitting 11m north to P.
6. L is sitting north west to P and has less number of boxes than P.

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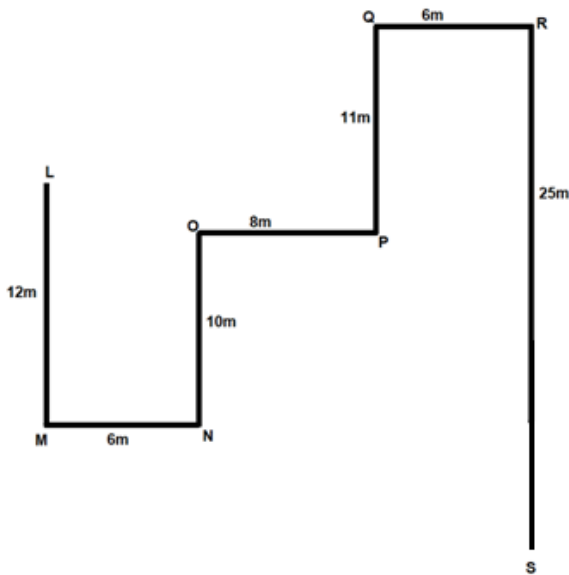
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7. O is sitting 8m west to P. N is sitting 6m east to M.

8. N has more boxes than O and is sitting 10m in the south of O, so M must have the 2nd lowest number of boxes.

The final arrangement is as follows:



9. P has lesser boxes than one of the persons sitting in the south west of P.

10. P doesn't have the lowest number of boxes.

The final ranking arrangement is as follows:

$S > N > P > L > O > Q > M > R$

Answers:

41. b

42. d

43. a

44. c

45. a

Solutions 41-45

1. Person, who has Rexton, is sitting 3rd from the left end.

2. One person is sitting between B and S and distance between both of them is 20m.

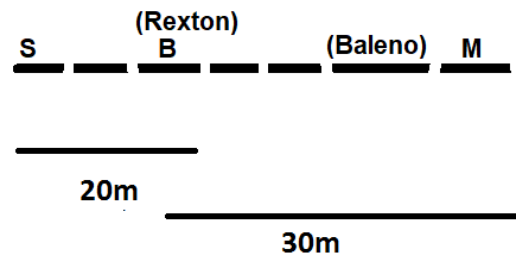
3. Two persons sit between the persons, who have Rexton and Baleno.

4. Four persons are sitting between S and the person, who has Baleno.

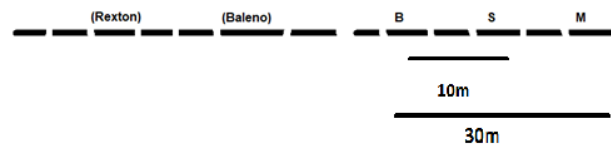
5. M is sitting 4th to the right of B.

The following are the possible cases from the left end.

Case 1:



Case 2a:



Case 2b:



6. Person, who has Swift is sitting at the right end.

7. Five persons are sitting between R, who has Porsche and the person, who has Swift.

8. Five persons are sitting between R and D.

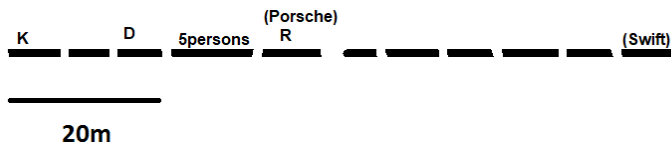
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9. Two persons are sitting between K and the person, who has Audi.

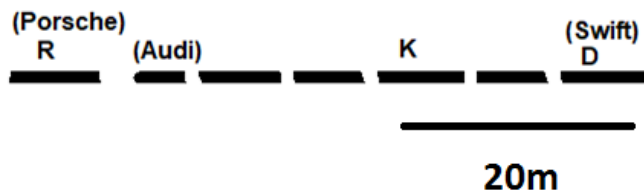
10. K is sitting 2nd to the left of D and distance between them is 20m.

The following are the possible cases from the right end.

Case 3:



Case 4:



11. Two persons are sitting between M and the person, who has Audi.

12. Persons sitting between D and the person, who has Baleno is less than 10, so case 2a and 2b are not possible.

13. Distance between M and K is 50m.

By combining the cases from the left end and the right end, we only combine case 1 and case 4 to satisfy every condition.

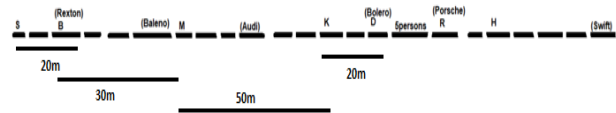
13. Persons sitting in the left of K are equal to the persons sitting in the right of the person, who has Bolero.

14. Distance between B and M is 30m.

Case 5 is not possible because Number of persons sitting between M and R is a prime number.

The final arrangement can be the combination of case 1 and case 4.

Final Arrangement:-



Answers:

46. c

47. a

48. b

49. c

50. c

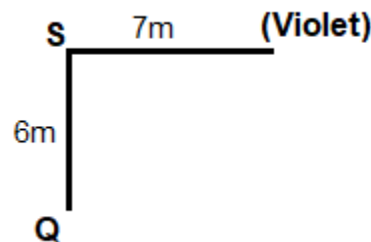
Solutions 46-50

1. As three candidates score more than S, who stands 6m north of Q.

2. The candidate who likes Violet and sits 7m east of S, scores less than S.

$S > \text{Violet}$

3. Candidate who scores the 2nd lowest scores 97 marks, so



There are three cases for the person who likes Violet color.

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Case I:

___ > ___ > ___ > S > (Violet) > (97) > ___

Case II:

___ > ___ > ___ > S > ___ > (97)(Violet) > ___

Case III:

___ > ___ > ___ > S > ___ > (97) > (Violet)

4. The highest scorer stands 8m east of T who likes Red.

5. P scores more than S and sits 6m south of T.

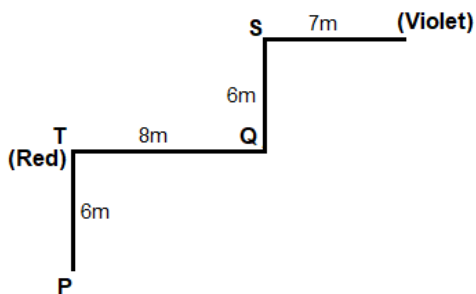
6. More than two candidates score less than T. R doesn't score the highest marks.

It means, T scores more than S to satisfy the above condition

$P / T > S$.

T cannot score highest marks as per the rule 4.

7. Difference between the marks of S and the one who likes Violet is less than the difference of marks of S and Q, so Q scores the highest marks.



Case I:

$Q > P/T > T/P > S > (Violet) > (97) > ___$

Case II:

$Q > P/T > T/P > S > ___ > (97) (Violet) > ___$

Case III:

$Q > P/T > T/P > S > ___ > (97) > (Violet)$

8. U stands 9m south of R, who scores 105 marks.

By this, R must scores third lowest number.

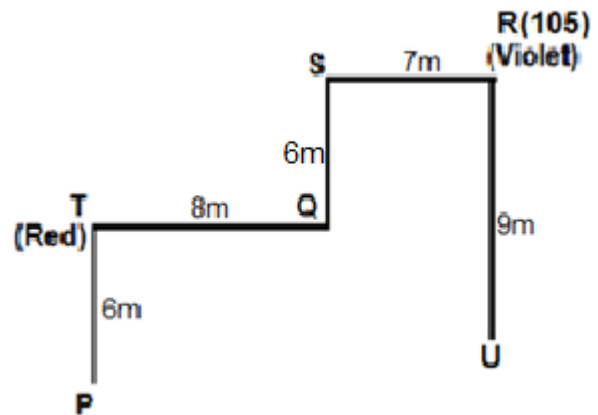
9. Neither U nor V likes Violet, so case II and case III are rejected.

10. V scores 3 marks less than U.

V secures $97 - 3 = 94$ marks.

Case I:

$Q > P/T > T/P > S > R(Violet) > U(97) > V(94)$



11. The candidate, who stands at extreme east, likes Green and sits at a distance of 6m from the person, who likes Blue.

To make Green color extreme east, the remaining V must like Green color and sits at 6m east of U.

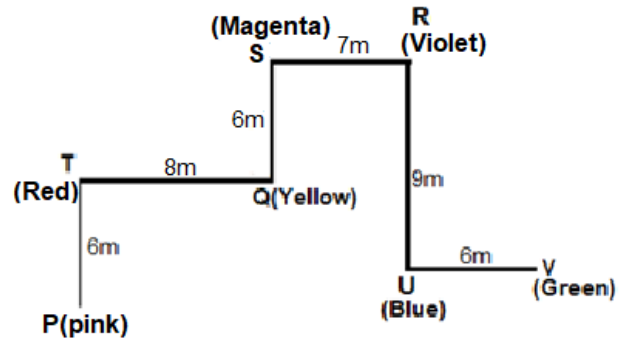
12. Person who stands at the extreme south likes neither Magenta nor Yellow, so P likes Pink.

13. Candidate who likes Yellow scores more than the one, who lives Magenta, so Q likes Yellow and S likes Magenta.

The final ranking and direction diagram is given below:

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Q(Yellow)>P(Pink)/T(Red) >T(Red)/P(Pink)
>S(Magenta) >R(105)(Violet)>U(97)(Blue)>
V(94)(Green)



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Seating Unknown Number of Person

(Direction 1-5): Study the following information carefully and answer the given questions:

Certain number of persons sit in a square table facing inside the table. Not Less than eleven persons sit in a table and not more than two persons sit on the same side of the table. Also, Atleast two of the corner of the table is vacant. M and S are immediate neighbours and M likes Black. Both of them sit on the same side of the table. W who likes Green sits diagonally opposite to the person who likes Red. W is neither an immediate neighbour of M nor S. G sits second to the right of S. Three persons sit between G and R who likes Blue. P faces A who sits to the immediate left of R but does not sit at the corner of the table. Person who likes Orange faces the person who likes Grey. P neither likes Grey nor Red. L who likes White faces the person who likes Yellow but they do not sit at the corner of the table. Two persons sit between the person whom

likes White and the person who likes Orange. Less than three persons sit between the person, who likes Orange and the person who likes Red but at least one person will sit between these two persons. L sits immediate left of W and sits alone in the side

1) How many persons are sitting in a table?

- A) 14
B) 11
C) 12
D) 15
E) 17

2) What is the square of the total number of persons sit between W and the person likes Red?

- A) 25
B) 36
C) 16
D) 49

E) None of these

3) Which of the following statement is/are true?

A) P faces the person who likes Grey

B) R does not like Blue

C) S sits fourth to the right of the person who likes Green

D) Both A and B

E) Both A and C

4) Who among the following sits tenth to the right of R?

A) Person likes White

B) Person likes Green

C) Person likes Grey

D) None

E) Person likes Orange

5) Who among the following sits exactly between M and L?

A) Person likes Orange

B) Person likes Grey

C) Person likes Blue

D) Both A and B

E) Both A and C

(Direction 6-10): Study the following information carefully and answer the given questions:

Certain number of persons sit in a rectangular table facing inside the table. Less than sixteen persons sit in a table. More than three persons sit on the longer side of the table and less than three but at least one person sit on the shorter side of the table. Also, Atleast two of the corner of the table is not vacant.

E who sits at the corner of the table faces the person whose age is 50. K whose age is 40 sits third right to the person whose age is 50. Person whose age is 29 faces K. Only one person sits between D whose age is 30 and K but not on the same side of side of the table. T whose age is 32 sits to the immediate left of G who sits at the corner of the table. No one sits between D and B. Person whose age is 8 and the person whose age is 36 are immediate neighbours of each other's. Neither E nor L are of 8years. X whose age is a prime number sits second to the left of L on the same side of the table and second to the right of E. Only one person sits between L and V whose age is 25 and does not faces S. Person whose age is 15 sits fourth to the right of the person whose age is 36. Less than three person sits between B and X.

6) What will be the square root of product of ages of both K and L?

A) $10\sqrt{5}$

B) $10\sqrt{6}$

C) $10\sqrt{7}$

D) $10\sqrt{3}$

E) None of these

7) Which of the following statement is/are true?

A) Age of X is 32

B) More than four persons sit between E and K

C) B faces the person whose age is 25

D) Both A and B

E) None

8) How many persons are sitting in a row?

- A) 15
- B) 16
- C) 13
- D) 14
- E) 17

9) Who among the following sits sixth to the right of D?

- A) Person whose age is 15
- B) Person who sits at the corner of the table
- C) Person who sits third to the left of T
- D) Both A and C
- E) Both A and B

10) What is the cube of the total number of persons sit between E and G when counted clockwise from E?

- A) 343
- B) 125
- C) 126
- D) 261
- E) 216

(Direction 11-15): Study the following information carefully and answer the given questions:

Certain number of persons are sitting in a linear row facing north. Less than eighteen persons sit in a row.

F sits at the end of the row and planted a Maple tree. Three persons sit between Q and F. Person who planted Mango tree sits third to the right of Q. T sits second to the left of the person who planted Mango tree. Six person sits between the person who planted Mango tree and Y who

planted Peepal tree. L sits second to the left of Y. Person who planted Banyan tree sits two places away from the person who is planted Palm tree who sits two places away from the person planted Peepal tree. Q does not plant Banyan tree. G who, planted Oak tree sits to the immediate right of the person who is planted Mango tree. P sits exactly between Q and D who is planted Banyan tree. Person who planted Pine tree and the person who planted Elm tree are immediate neighbours of each other. Neither T nor S planted Pine tree. S who planted Neem tree sits between D and the person who planted Palm tree. Number of persons sits to the right of Y is one more than the number of persons sits to the left of F.

11) Who among the following sits exactly between L and person who planted Pine tree?

- A) Person who planted Mango tree
- B) Person who planted Oak tree
- C) G
- D) D
- E) Both B and C

2) What is the cube of the total number of persons sit between T and Y?

- A) 521
- B) 512
- C) 343
- D) 216
- E) 125

13) Who among the following sits fifth from the right end?

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- A) Person who planted Neem tree
- B) Person who sits between D and L
- C) Person who sits third to the left of Y
- D) All A, B and C
- E) Person who sits second to the right of G

14) How many persons are sitting in a table?

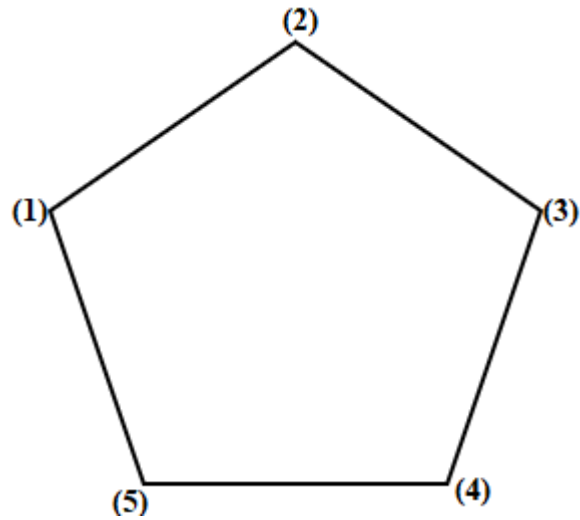
- A) Square of three
- B) 14
- C) Square of four
- D) 13
- E) 15

15) Which of the following statement is/are true?

- A) Six persons sit between P and F
- B) Q T are not an immediate neighbours
- C) D sits exactly between L and P
- D) Both A and B
- E) Both A and C

(Direction 16-20): Study the following information carefully and answer the given questions:

Certain number of persons are sitting in a Pentagon table representing the corner as 12345 as per diagram given. All are facing inside the table. Less than eighteen persons sit in a table. Number of persons sitting on each of the longer sides are equal and same will be applied for the shorter sides as well. Corners also seated by persons.



Three persons sit between P and Q who likes One plus and they are sitting at point 3 and point 4. R sits to the immediate left of Q. G sits third to left of A who likes Realme and who sits sixth to the right of Q. K and A are immediate neighbours but not on the same side. C who sits third to the right of K likes Vivo but both does not sit at the corner of table. H sits second to the right of C. R and H are not sitting on the same side of the table. W who likes Apple sits third to the right of the person who likes Realme. Two persons sit between H and R who likes Jio. Person who likes Poco sits third to the right of the person who likes Nokia. Six persons sit between the person who likes Oppo and the person who likes MI when counted from the left of the person who likes MI.

16) Which of the following statement is not correct?

- A) Q-One Plus
- B) A- Realme
- C) R-Jio
- D) G-Oppo
- E) W-Apple

17) How many persons are sitting in a table?

- A) 4×3
- B) 4×4
- C) 3×5
- D) 8×2
- E) Both B and D

18) What is the position of C with respect to P?

- A) Sixth to the right
- B) Seventh to the right
- C) Tenth to the left
- D) Both A and B
- E) Both A and C

19) Which of the following statement is/are not true?

- A) G does not like MI
- B) C likes Oppo
- C) A does not sit at the corner of the table
- D) Both A and B
- E) None is true

20) What will be the square of total number of persons sit between K and Q when counted from the left of Q?

- A) 64
- B) 49
- C) 25
- D) 100
- E) 121

(Direction 21-25): Study the following information carefully and answer the given questions:

Certain number of persons are sitting on a W shaped table facing inside the table. Less than eighteen persons sit in a table.

G who likes Kiwi sits at the centre of the table. P and B are an immediate neighbours of G. Except G no one sits at the corner of the table. Both P and B are sitting alone on a side of the table. Only one person sits between O and P but not on the same side of the table. Two persons sit between B and M who likes Mango but on different sides of the table. Person, who likes Mango is not an immediate neighbour of the person, who likes Grapes. H sits second to the left of the person who likes Mango. R who is the neighbour of H sits two places away from the person who likes Apple. Person who likes Papaya faces the person who likes Apple. Only one person sits between the person who likes Grapes and the person who likes Papaya. L who likes Malta and the person who likes Litchi are an immediate neighbours of each other. Person who likes Banana sits to the immediate left of the person who likes Orange but on the different side of the table. R who likes Guava and the person who likes Orange are an immediate neighbours. S who likes Dragon Fruit sits three places away from the person who likes Litchi, who sits alone on one of the sides of the table.

21) How many persons are sitting in a table?

- A) $2^2 + 3^2$
- B) $2^3 + 2^2$
- C) $2^2 + 3^3$
- D) $3^2 + 2^3$

E) $5 + 3^2$

22) Four of the five are alike in a certain way and hence forms a group. Which of the following does not belong to that group?

- A) F faces the person who likes Papaya
- B) L faces the person who likes Orange
- C) R faces the person who likes Litchi
- D) S faces the person who likes Mango
- E) O faces the person who likes Guava

23) What is the Cube of the total number of persons sit between O and M?

- A) 216
- B) 225
- C) 125
- D) 64
- E) 343

24) Who among the following sits third to the right of O?

- A) Person who likes litchi
- B) L
- C) Person who likes Kiwi
- D) B
- E) None of these

25) Which of the following statement is/are not true?

- A) B does not like Banana
- B) S and the person who likes Grapes are neighbours
- C) T faces the person who likes Mango
- D) Both A and B
- E) Both A and C

(Direction 26-30): Study the following information carefully and answer the given questions:

Certain number of persons are sitting on a M shaped table facing towards the center. Less than Eighteen persons sit on a table. Number of persons on each longer side are equal and same will be applied for the shorter sides as well.

A who likes Audi sits at the centre of the table. K sits two places away from A and sits at the corner of the table. Y sits to the immediate left of A and likes Honda. Two persons sit between K and a person who like Jaguar. C sits to the immediate left of the person who likes Jaguar and faces the person who likes Alto. Two persons sit between A and E who likes Toyota. E do not sit on that side of the table on which the person who likes Jaguar sits. No one sit to the right of E on the same side of the table. I who likes BMW faces the person who sits to the immediate right of the person who likes Hyundai. Person who likes Hyundai and a person who likes Alto do not sit on the same side of the table. D faces the person who sits between the person who likes Alto and S. Either K or S likes Maruti. Person who likes Ertiga does not share the side with the person who likes Toyota.

26) Who among the following sits fifth to the right of E?

- A) No one
- B) Person likes Ertiga
- C) A
- D) Person likes Hyundai

E) D

27) How many persons are sitting in a table?

A) $\sqrt{144}$

B) $\sqrt{196}$

C) $\sqrt{169}$

D) $\sqrt{225}$

E) $\sqrt{121}$

28) What is the square of the total number of persons sit between I and D?

A) 9^2

B) 8^2

C) 7^2

D) 6^2

E) 5^2

29) Which of the following statement is/are true?

A) S does not like Maruti

B) K likes Ertiga

C) T faces the person likes Hyundai

D) Both A and B

E) Both B and C

30) Who among the following sits exactly between C and the person who likes Alto?

A) Person who likes Ertiga

B) K

C) Y

D) Person who likes Audi

E) Person who likes Honda

(Direction 31-35): Study the following information carefully and answer the given questions:

Certain number of persons sit in a linear row. All are facing in the north direction. Less than eighteen persons sit in a row.

L sits second to the right of N. Two persons sit between L and K who likes Avataar. S who sits at the right end of the row sits three places away from the person who likes Dangal. Only one person sits between the person who likes 1920 and the person who likes Swadesh and the one, who likes Swadesh will sit to the left of L. T sits to the immediate left of the person who likes Dangal. P who likes Sultan sits exactly between M and T but not immediate. No one sit between the person who likes Avataar and M. Q sits third to the right of the person who likes Sultan. Person who likes 1917 sits exactly between the person who likes 1920 and T. M neither likes 1920 nor likes Joker. Person who likes Joker sits fourth to the left of the person who likes Lion. No one sits to the right of the person who likes Lion. Number of persons sits to the left of the person who likes 1920 is one less than the number of persons sits to the right of the person who likes Dangal.

31) Which of the following statement is/are not true?

A) K sits exactly between N and the person likes Joker

B) M likes 1920

C) P sits third to the left of the person who likes Dangal

D) Both A and B

E) Both A and C

32) What is the cube of the total number of persons sit between N and S?

- A) 4096
- B) 3375
- C) 1278
- D) 1331
- E) 2197

33) How many persons are sitting in a table?

- A) $5^2 - 2^3$
- B) $3^2 + 6$
- C) $2^3 + 2^2$
- D) $3^3 - 2^2$
- E) $4^2 - 2^2$

34) Who among the following sits eighth to the left of P?

- A) L
- B) M
- C) Person who likes Swadesh
- D) K
- E) Person who likes Avatar

35) Which among the following pair sits at the end of the row?

- A) L and the person who likes Lion
- B) S and the person who likes Swadesh
- C) N and the person who likes Lion
- D) Both A and B
- E) Both B and C

(Direction 36-40): Study the following information carefully and answer the given questions:

Certain number of persons sit in a E shaped table. All are facing in the north direction. Less than Eighteen persons sit in a table. Each person sits only at the horizontal sides of the table. Number of persons sit on the middle side of the table is less than the number of persons sit on the upper and lower side of the table.

H sits fourth to the right of A who was born in June and both are not sitting on the longer side of the table. B who was born in October sits to the south of F who is not an immediate neighbour of H. Only one person sits between B and D but not on the same side of the table. D sits at the left end of the lower side of the table. E sits to the east of D and born in May. B does not share the side with A. Three persons sit between the person who was born in October and the person who was born in August but on the different sides. Three persons sit between D and C who was born in March. E sits to the south of F and to the south-east of B. Person who was born in August and the person who was born in April are sitting on the upper side of the table. G who was born in January sits to the north-east of the person who was born in July who sits neither at the upper side nor at the middle side of the table.

36) Who among the following sits to the south-west of G?

- A) Person who was born in July
- B) D
- C) Person who was born in October
- D) Both A and B
- E) Both A and C

37) How many persons are sitting in a table?

- A) $3^2 + \sqrt{16}$
- B) $2^3 + 6$
- C) $7 + 3^2$
- D) $2^4 - 2^2$
- E) None of these

38) Which of the following statement is/are not true?

- A) E sits to the south of G
- B) B sits to the north-west of the person who was born in July
- C) D sits to the south-west of H
- D) Both A and B
- E) Both A and C

39) What is the square of the total number of persons sit between H and D?

- A) 64
- B) 36
- C) 25
- D) 49
- E) 81

40) What is the square root of the total number of persons sit between C and the person who was born in April?

- A) $\sqrt{12}$
- B) $\sqrt{11}$
- C) $\sqrt{7}$
- D) $\sqrt{5}$
- E) $\sqrt{9}$

(Direction 41-45): Study the following information carefully and answer the given questions:

Certain number of persons sit in a circular table facing inside the table. Less than eighteen persons sit in a table. Not more than two known persons sit adjacent to each other.

R sits second to the left of E and likes Pasta. Only one person sit between the person likes Idli and the person likes Pizza who sits four places away from R. G likes Maggie. L sits second to the left of the person who likes Maggie who sits three places away from the person who likes Idli. L who is not an immediate neighbour of R sits to the left of E who likes Idli. Only one person sits between L and the person who likes Dosa. Person who likes Samosa sits second to the left of the person who likes Dosa. Person who likes Samosa is not an immediate neighbour of E. Q sits three places away from K. K neither likes Pizza nor likes Dosa. Seven persons sit between the person who likes Maggie and the person who likes Samosa when counted anticlockwise from the person who likes Maggie. Q sits seventh to the left of L who likes Burger. P sits fifth to the right of Q.

41) Who among the following sits seventh to the right of R?

- A) Person who likes Pizza
- B) Person who likes Dosa
- C) Person who likes Samosa
- D) Person who likes Idli
- E) Person who likes Maggie