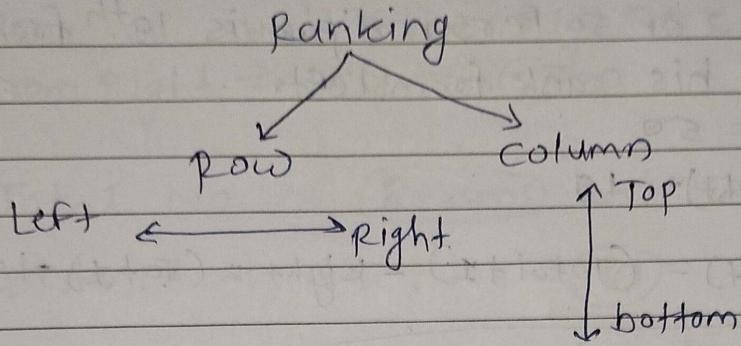


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## 23. Order and Ranking

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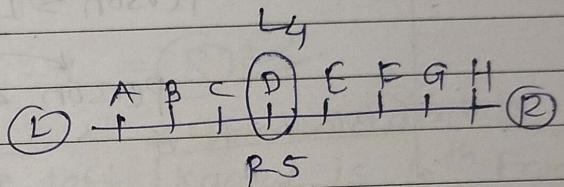


# Row :-

$$\text{Total} = (\text{Lrank} + \text{Rrank}) - 1$$

$$\text{Left} = (\text{Total} + 1) - \text{Right}$$

$$\text{Right} = (\text{Total} + 1) - \text{Left}$$



$$(4+5) = 9 - 1 = 8 \text{ Total}$$

# Column :-

$$\text{Total} = (\text{Tp} + \text{Bt}) - 1$$

$$\text{Top} = (\text{Total} + 1) - \text{Bottom}$$

$$\text{Bottom} = (\text{Total} + 1) - \text{Top}$$

1] In a row mohan is 18<sup>th</sup> from left. if he is 15<sup>th</sup> from right then how many person are there in row.

$$\Rightarrow \text{mohan (Left)} = 18$$

$$\text{mohan (right)} = 15$$

$$\text{Total} = (\text{L} + \text{R}) - 1 \Rightarrow (18 + 15) - 1 = 32 \checkmark$$

Q) On a row of 50 person Dipak is 19<sup>th</sup> from right then find his rank from left.

$$\Rightarrow \text{Total} = 50$$

$$\text{Dipak(Right)} = 19$$

$$\text{Dipak(Left)} = (\text{Total} + 1) - \text{Right} = (50 + 1) - 19 = 32$$

~~IMP~~

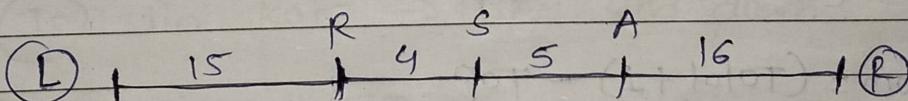
~~Best + Accurate + Fast~~ method :-

$$\text{Rank} = \text{Distance}$$

$$\text{Person} = \text{Distance} - 1$$

$$\text{Person} = \underbrace{\text{Distance}}_{+1} - \underbrace{1}_{-1}$$

Q) In a row Ravi is 15<sup>th</sup> from Left, Amit is 16<sup>th</sup> from Right. If Sumit is 4<sup>th</sup> to the right of Ravi and is 5<sup>th</sup> to the left of Amit then find



1) Rank of Ravi from Right :-

$$\text{From Right} \Rightarrow 16 + 5 + 4 = 25$$

2) Rank of Amit from Left :-

$$\text{From Left} \Rightarrow 15 + 4 + 5 = 24$$

3) Rank of Sumit from Left :-

$$\text{From Left} \Rightarrow 15 + 4 = 19$$

4) Rank of sumit from Right :-

$$\text{from Right} \Rightarrow 16 + 5 = 21 \quad \swarrow$$

5) Total No. of Persons in Row :-

$$\text{Distance} = 15 + 4 + 5 + 16 = 40$$

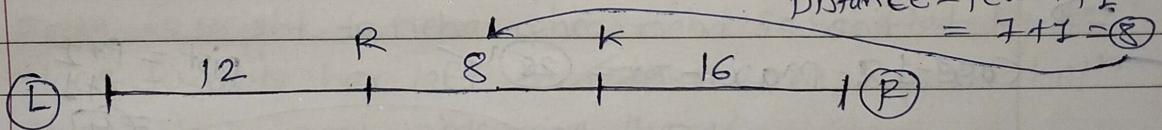
$$\text{Person} = \text{Distance} - 1 = 40 - 1 = 39 \quad \swarrow$$

6) Person between Ravi and Amit :-

$$\text{Distance} = 5 + 4 = 9$$

$$\text{Person} = \text{Distance} - 1 = 9 - 1 = 8 \quad \swarrow$$

7) In a row Rohan is  $12^{\text{th}}$  from left, Kamal is  $16^{\text{th}}$  from right, Kamal is right to Rohan. if there are 7 Person between them then find rank of Rohan from right and total no. of persons in row.



• Rank of Rohan from right 8 -

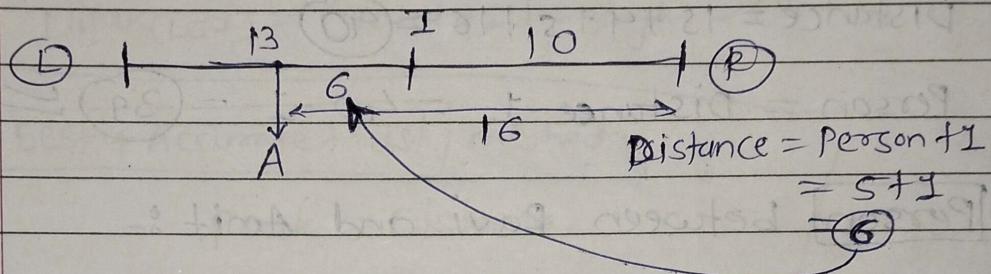
$$16 + 8 = 24 \quad \swarrow$$

• No. of persons in row :-

$$\text{Distance} = 12 + 8 + 16 = 36$$

$$\text{Person} = \text{Distance} - 1 = 36 - 1 = 35 \quad \swarrow$$

- (5) In a Row Isha is 13<sup>th</sup> from Left. Abhay is 16<sup>th</sup> from Right. Abay is left to Isha. If there are 5 Person between them. Then find total No. of Person in Row.



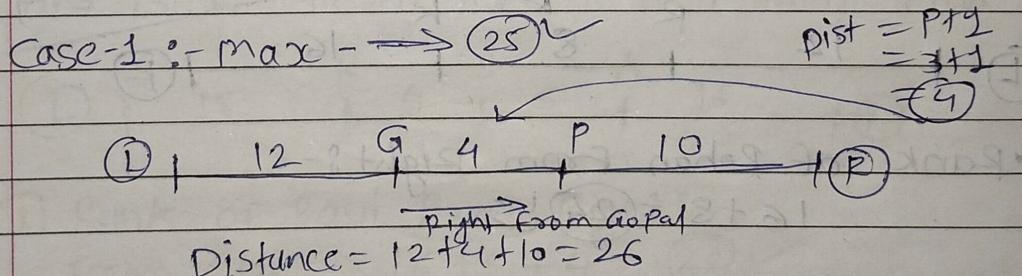
Total No. of Person in Row

$$\text{Distance} = 13 + 16 = 29$$

$$\text{Person} = \text{Distance} - 1 = \boxed{28}$$

- \* (6) In a row Gopal is 12<sup>th</sup> from left. Prince is 10<sup>th</sup> from right. If there are three persons between them then find the total no. of Persons.

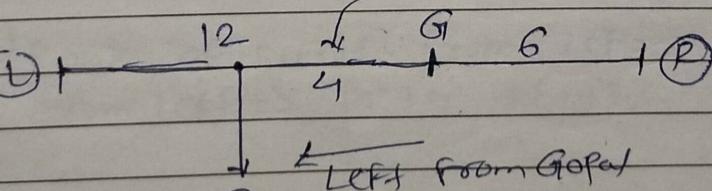
⇒



$$\text{Person} = \text{Distance} - 1 = 26 - 1 = \boxed{25}$$

Case 2:- min →  $\boxed{17}$

$$\text{Distance} = P+1$$
  
 $= 3+1$   
 $\boxed{4}$



$$\text{Distance} = 12 + 6 = 18 \quad , \quad \text{Person} = \text{Distance} - 1$$

$$= 18 - 1 = \boxed{17}$$

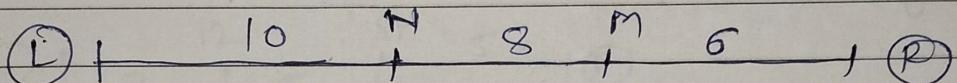
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- 7) In a row Neeraj is 10<sup>th</sup> from left. Manish is 6<sup>th</sup> right. If there are 7 persons betw them then how many persons are there?

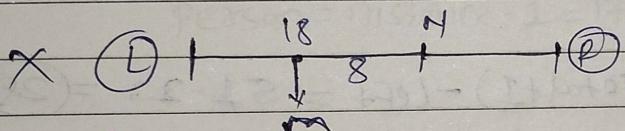
⇒ Case-1 : max



$$\text{Distance} = 10 + 8 + 6 = 24$$

$$\text{Person} = \text{Dist} - 1 = 24 - 1 = 23$$

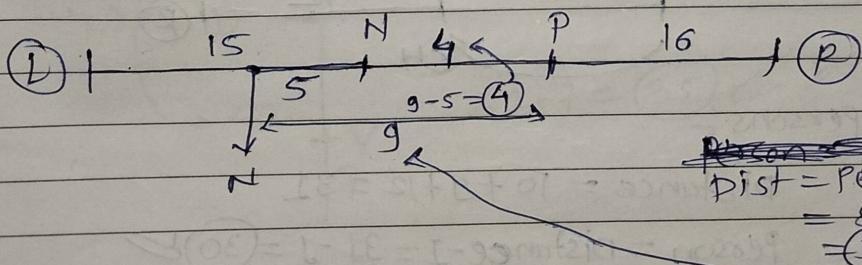
Case-2 : min



No these case occurs so only max case

- 8) In a row Neha is 15<sup>th</sup> from left. Priti is 16<sup>th</sup> from right. Neha's parity is right to Priti. When Neha is shifted by 5 places towards her left then there are 8 girls betw them. How many girls are there?

⇒

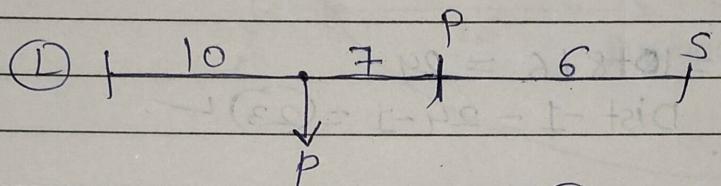
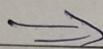


$$\begin{aligned}\text{Person} &= \text{Person} + 1 \\ &= 8 + 1 \\ &= 9\end{aligned}$$

$$\text{Distance} = 15 + 4 + 16 = 35$$

$$\text{Person} = \text{Distance} - 1 = 35 - 1 = 34$$

- 9) In a row of 50 girls, if Priyanka is shifted to her left by 7 place then her number from left become 10. what is the rank of Sonam from the right if sonam is 6<sup>th</sup> place to the right of Priyankas original position.



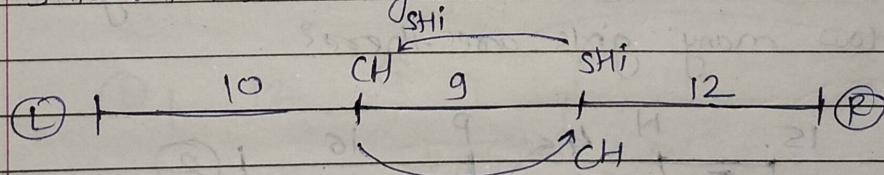
$$\text{Sonam (Left)} = 10 + 7 + 6 = 23$$

$$\text{Total} = 50$$

$$\text{Sonam (right)} = (\text{Total} - 1) - \text{Left} = 51 - 23 = 28$$



- 10) In a row Charu is 10<sup>th</sup> from left. Shwani is 12<sup>th</sup> from the right. when they interchanged their positions then Charu becomes 19<sup>th</sup> from the left. Then find total persons and new positions of shwani from right.



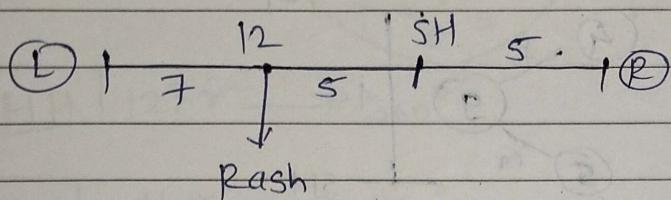
Total persons:-

$$\text{Distance} = 10 + 9 + 12 = 31$$

$$\text{Person} = \text{Distance} - 1 = 31 - 1 = 30$$

new position of shwani from right:-  
(Shwani) right = 12 + 9 = 21

11) In a row shikha is 12<sup>th</sup> from left. Rashmi is 10<sup>th</sup> from right. When they interchanged their positions then Shikha becomes 7<sup>th</sup> from left. Then how many girls are there in the row.

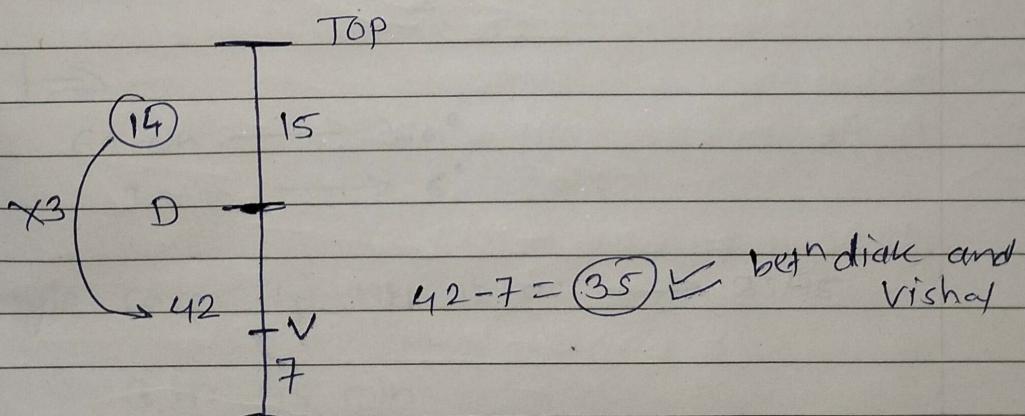
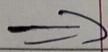


• Total girls in row:-

$$\text{Distance} = 12 + 5 = 17$$

$$\text{Person} = \text{Distance} - 1 = 17 - 1 = 16$$

12) In a column of boys Dipak is 15<sup>th</sup> from top. If there were thrice as many behind him as there were front. Then how many boys are there between Dipak and Vishal who is 7<sup>th</sup> from end of column.



(B) In a class of 45 where girls are twice to that of boys. Shweta is 10th from the top. If there are 5 girls ahead of her, then how many boys are after her?

