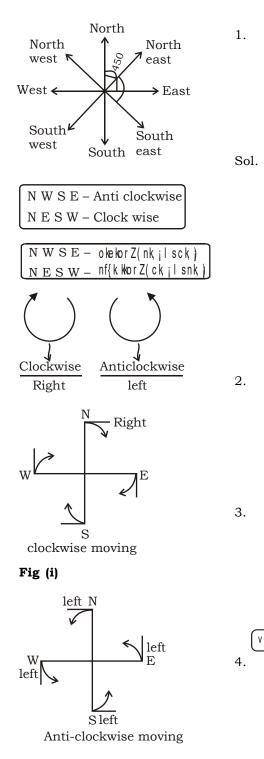
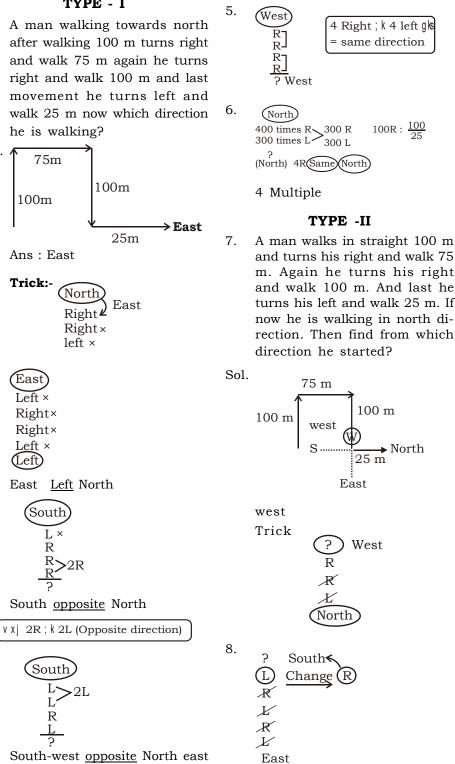
DIRECTION



TYPE - I



and turns his right and walk 75 m. Again he turns his right and walk 100 m. And last he turns his left and walk 25 m. If now he is walking in north direction. Then find from which direction he started?

 $100R: \frac{100}{25}$

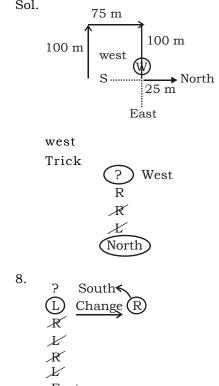


Fig (ii)

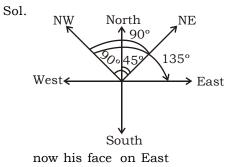
9. ? East
Change
$$\mathbb{R}$$

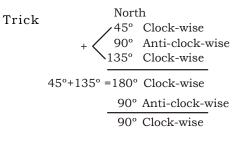
 \mathbb{R}
 \mathbb{K}
 \mathbb{K}
 \mathbb{K}
 \mathbb{K}
 \mathbb{K}
 \mathbb{K}
 \mathbb{K}
 \mathbb{R} 2 \mathbb{R} change direction 2 L
South west
 \mathbb{N}
 \mathbb{K}
 \mathbb{K}

North-west

TYPE -III

 A man faces towards north first he turns is 45° clockwise then he turns 90° Anticlockwise. At last he turns 135° clockwise. Now his face on which side?





[Those digit higher, C.W and A.C.W depends on that] East

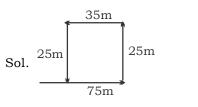
12. East $\begin{array}{r}
45^{\circ} \text{ c.w} \\
90^{\circ} \text{ c.w} \\
180^{\circ} \text{ A.c.w} \\
\underline{135^{\circ} \text{ c.w}} \\
\underline{135^{\circ} \text{ c.w}} \\
\underline{130^{\circ} \text{ A.c.w}} \\
\underline{180^{\circ} \text{ A.c.w}} \\
90^{\circ} \text{ c.w} \\
\end{array}$ South

> [Those digit higher, C.W and A.C.W depends on that] East

- 13. East $\begin{array}{r}
 45^{\circ} \text{ c.w} \\
 90^{\circ} \text{ A.c.w} \\
 45^{\circ} \text{ A.c.w} \\
 \underline{45^{\circ} \text{ c.w}} \\
 180^{\circ} \text{ A.c.w} \\
 \underline{135^{\circ} \text{ A.c.w}} \\
 45^{\circ} \text{ c.w} \longrightarrow \text{ North-east}
 \end{array}$
- 14. A man is walking towards east. He walks 75m and turn left and again walks 25 m. Again he turn left he walks 35 m. At last he walk 25 m and turn left.

Types

- 1. Now, he is going in which direction
- 2. Now he is on which direction from the initial point?
- 3. Now he is how far distance from the initial point?
- 4. Now he is how far and in which direction from the initial point?



1st East

$$\begin{array}{c} L \\ L \\ L \\ L \\ \hline \\ South \end{array} \xrightarrow{\text{oppsite Driection west}} west \\ west d k \text{ left south} \\ g k k \\ \end{array}$$

2nd Ans. east

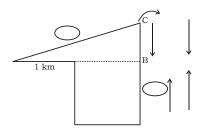
3rd Ans. 40 m

4th Ans. 40 m, east

TYPE -IV

15. A man walk in 1 km East. Now he turns south and walk 5 km again he turns East and walk 2 km. At last he turns north and walk 9 km. Now find that he in which direction and how far from the initial point?

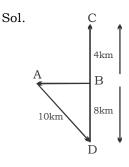
Sol.

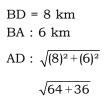


In D ABC : AB = 3km BC : 4 km AC : $\sqrt{(3)^2 + (4)^2}$ $\sqrt{9+16} : \sqrt{25} : 5$ km

5 km, North. east

16. A is 6 km West from B. And C is 4 km north to B. D is 12 km south from C. now D on which direction and how far from A.

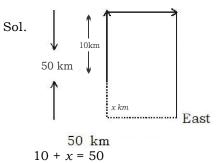




 $\sqrt{100} = 10 \text{ km}$

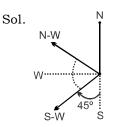
10 km, South-West

17. A man walks 10km in north and turns his right. And walk 20 km. Again he turn right and walk 50 km if he is 20 km west from he initial point. Now find that he how much walk initially?

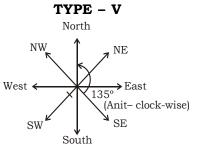


$$x = 50 - 10 = 40 \text{ km}$$

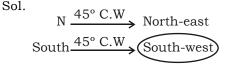
18. A man walks in south direction. After he walks 1 km he turn his right 45° and walk 2 km again he turn his right and walk same distance. Now find that in which direction is he going?



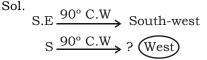
A man is going in to south direction from there he turns 45° right means in sout west direction and from there right (90°) direction will be north west direction.



- 19. If South-east becomes North, North-east becomes west and So on that what will west becomes?
- Sol. S.E $\xrightarrow{135^{\circ} AC.W}$ North N.E \longrightarrow West West______South-east
- 20. If North becomes North-east, South becomes?

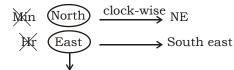


21. If South-east becomes South- Sol. 4:30 west, then South becomes ?



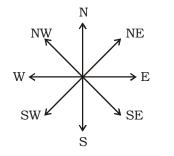
22. It is <u>3 O' clock</u> if at into time the minute hand points towards North-east than in which hours would be?

Sol. 3:00



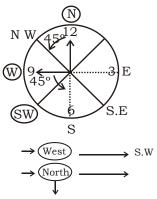
Actual direction

12 Min N



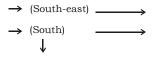
23. It is <u>9 O' clock</u>, if at this time the hours hand points towards South-west than in which direction Minute would be?

Sol. 9:00



24. It is <u>4:30 O' clock</u> if at this time <u>hours</u> hand points towards South-west than in which direction minute would be?





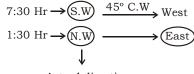
Ex.1

9:00

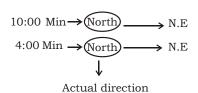
9:00 Min \rightarrow North <u>45° C.W</u> N.E 3:00 Hr \rightarrow East 45° C.W \rightarrow S.E

Ex2.

Ex3.

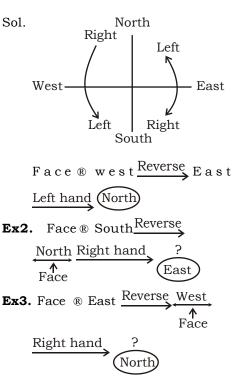


Actual direction



TYPE -VI

25. In the morning A man was performing Yoga with (i) Head down and legs up, if at this time his face towards west than which direction his left hand would be?



TYPE – VII

Shadow (opposite to sun)E/W

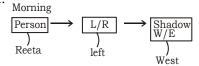
Morning \rightarrow Sun Rise \rightarrow	East	opposite	West) Morning
	Actual		\smile	Shadow

 $\begin{array}{l} \text{Evening} \rightarrow \text{Sun set} \rightarrow \underbrace{\text{West}}_{\text{Actual}} \underbrace{\text{opposite}(\text{East})}_{\text{Shadow}} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{l} \text{Evening}\\ \text{Shadow} \\ \end{array}$

- 1. Right hand ® west face ® South
- 2. Left hand ® west face ® North
- 3. Right hand
 R East face
 North
- 4. Left hand
 East face
 South

26. A morning two friend Reeta and Kavita talks to each other. If at the time Kavita shadow from the left side of Reeta, now find that Kavita face on which direction?

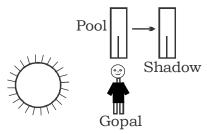
Sol. Morni



 $\begin{array}{c} \text{Kavita} \longrightarrow \text{face} \longrightarrow \text{South} \\ \text{27. An evening Gopal saw a pool . If} \\ \text{at the time a pool shadow made} \end{array}$

his right, now find that Gopal face which direction?

Sol. Evening-Sun-West Shadow-East



Gopal face in north