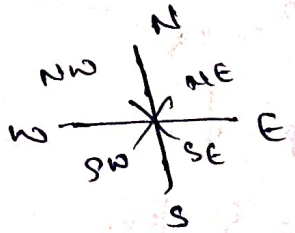
Directions

Rules

→ Mapping the plotting the given directions.

→ Calculation of distance - using Pythagoras Theorem

→ Finding the direction of shadow - based on Sunrise (East) & Sunset (West).

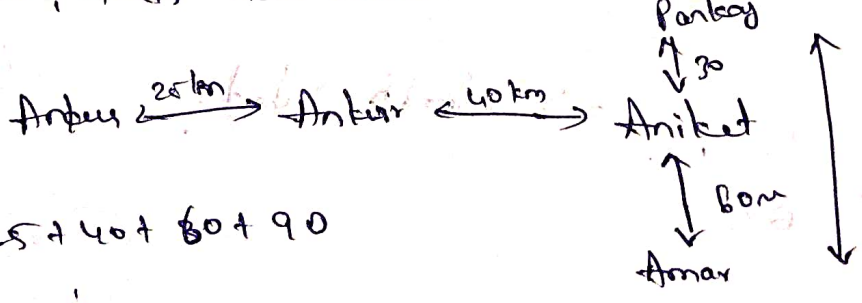


01. If South-East becomes North, North-East becomes West and so on. What will west become?

Sol: South-East.

02. Amar, Aniket, Ankush, Ankur and Pankaj are standing facing to the North in the playground such as given as: Aniket is at 40m to the right of Ankur. Amar is are 60m in the south of Aniket. Ankush is at a distance of 25m in the west of Ankur. Pankaj is at a distance of 90m in the North of Amar. If a boy starting from Ankush, met to Ankur and then to Aniket and after his he to Amar and then to Pankaj and whole the time he walked in a straight line, then how much total distance did he cover?

Sol:

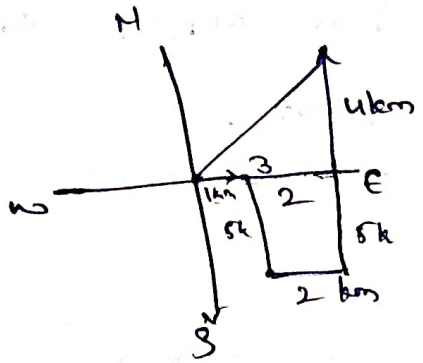


$\Rightarrow 25 + 40 + 60 + 90$

$= 215$ m

03. A Man walks 1 km to East and then he turns to South and walks 5 km. Again he turns to East and walks 2 km. After this he turns to North and walks 9 km. Now how far he is from his starting point?

Sol



$\Rightarrow 3^2 + 4^2 = 9 + 16$

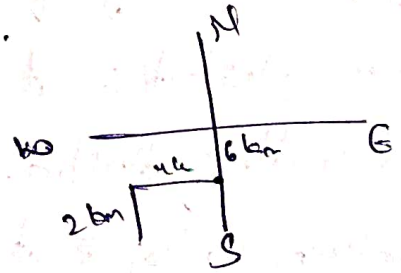
$hy^2 = 25$

$hyp = \sqrt{25}$

$= 5$ km

04. Rita walks 6 km towards south then she turns right & walks 4 km. again she turns left and walks 2 km. In which direction is she from her starting point

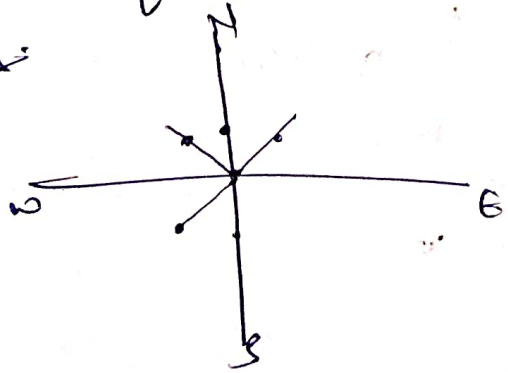
Sol.



$\Rightarrow$ South west direction.

05. A Man is facing North. He turns to 180 degrees in the clockwise direction and another 45 degrees in the same direction and 270 degrees in the Anticlock wise direction. which direction is he facing now?

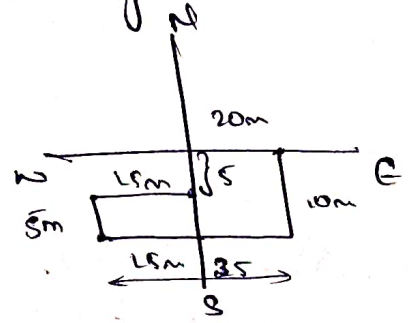
Sol.



$\Rightarrow$ North - West.

06. A man leaves from his office for the Hom. He walks towards East. After moving a distance of 20m, he turns South & walks 20m. Then he walks 35m towards the west & further 5 m towards the north. He then thurns towards east & walks 15m. what is the straight distance b/w initial & final position.

Sol:

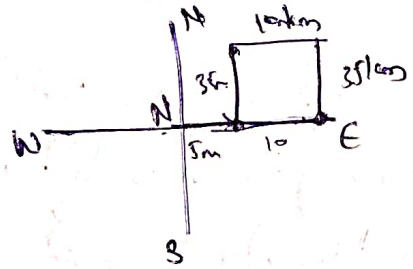


distance b/w initial & final position

$\Rightarrow$ 5 m

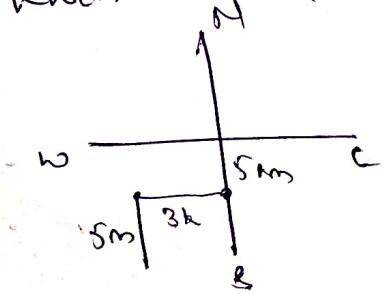
07. Rohini Goes 5 km towards East from a fixed point N, and then 35 km after turning to her left, Again she goes 10km after turning to her right. After this she goes 35 km after turning to her right. how far is she from N?

Sol:



$\Rightarrow 5+10 = 15$ km

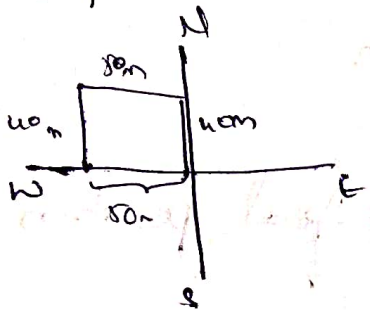
08. A Man walks 5km toward south and then turns to the right. After walking 3 km he turns to the left & walks 5 km. Now in which direction he is from the starting place.



direction $\rightarrow$ South West

09. Shyam walked 40m facing towards North. From there he walked 50m after turning to his left. After this he walked 40m after turning to his left. How far and in what direction is he now from his starting point?

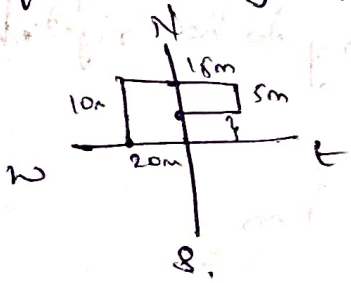
Sol.



⇒ 50 m towards West.

10. Manoj started walking 20m toward West. From there he goes 10m towards north. Then he goes 35m towards East & after this he goes 5m towards south & in end, he goes 15m towards West. How far is he from starting point?

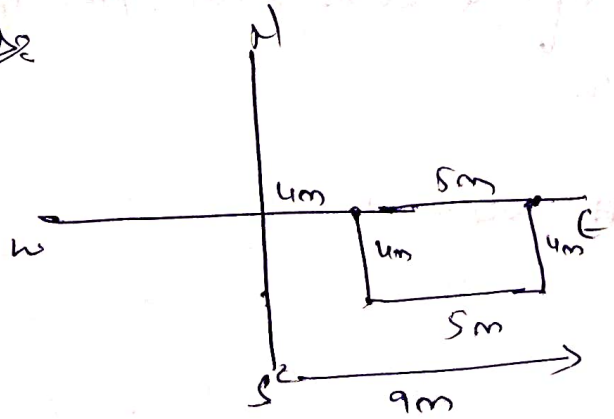
Sol:



⇒ 5m

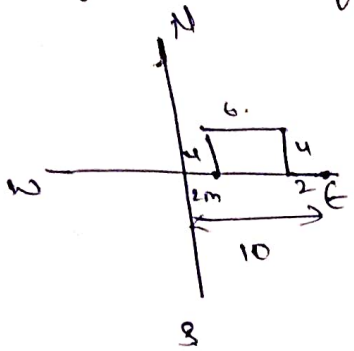
11. Shubham walked 4m towards East then turns to his right and walked 4m and then turn to his left and walks 5m. Again turning to her left he walks 4m and stopped. What is the shortest distance b/w starting point & Ending point.

Sol:



⇒ 9 m

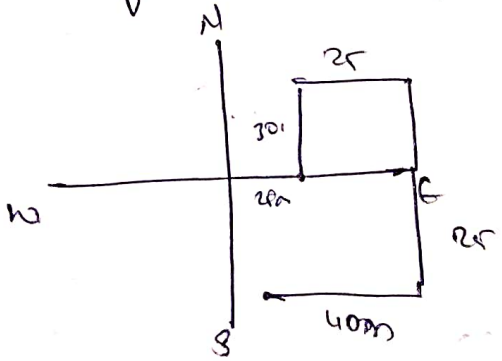
12. Ankit started from a point walks 2m East & turns left & walks 4m & turns right & walks 6m again, then he starts walking 4m to his right, from where again he walks 2m left. How far is he from starting point?



⇒ 10m.

13. A man faces towards north. Turning to his right, he walks 25 meters, he then turns to his left & walks 30 meters. Next he moved 25 m to his right. He then turns to his right again and walks 55m. Finally, he turns to the right & moves 40m. By which direction is he from his starting point?

Sol:



direction - South. East