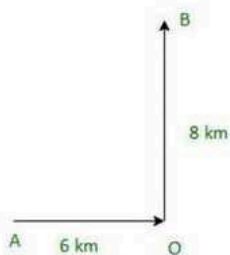


So, from the above image it is clear that ram is 7 km away from the starting point.

Q2: Sam started walking from point A towards East and walked for 6 km, then he turned to the left and walked for 8 km to reach point B. How far was he from the starting point?

Solution:

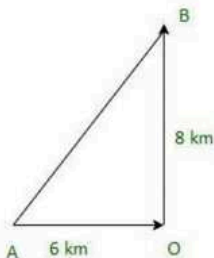
Now, according to the question,



Now, to the Distance between A and B = $\sqrt{6^2 + 8^2}$
(By Pythagoras' theorem)

$$= \sqrt{100}$$

$$= 10 \text{ km}$$



Therefore, the distance from the starting point is 10 km.

Q3: One morning after sunrise, Mahesh was standing facing a pole. The shadow of the pole fell exactly to his right. To which direction was he facing?

Solution:

The sun rises in the East (E) in the morning.

As the shadow of Mahesh falls to his right.

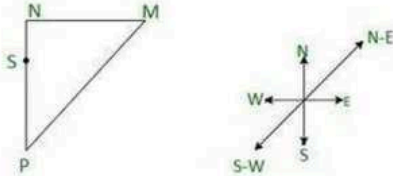
So he must be facing South.

Hence, the answer is the south.

Q4: M is in the East of N, which is in the North of S. If P is in the South of S, then in which direction of M, is P?

Solution:

Let us understand through the diagram , which will clear the question more.

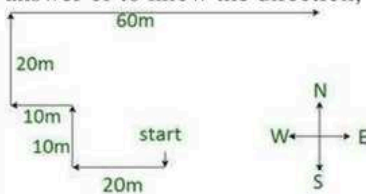


So, P is south-west of M.

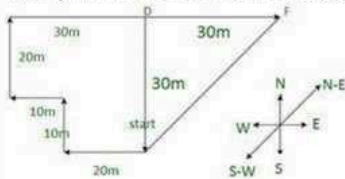
Q5: You are facing south. You turn right and walk 20 m , then you turn right and walk 10m. Then turn left and walk for 10 m. then turn right and walk for 20 m. Then you turn right again and walk 60 m. In which direction do you in from the starting point?

Solution:

First we have to make a sketch of all the given data and then we will analyze it to get the answer or to know the direction,



we start facing south, and after that follow the paths given in question above, Now, we have to find a direction from the starting point.



Here , we will also find the distance from start to F , distance = $\sqrt{(30^2 + 30^2)} = 30\sqrt{2}$. and the direction is N-E (north east).

EXERCISE

1. 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 is he from his starting point?

- A. 3 km
- B. 4 km
- C. 5 km
- D. 7 km

2. I walk 30 metres in North-West direction from my house and then 30 metres in South-west direction. After this I walk 30 metres in South-East direction. Now, I turn to my house, in what direction am I going?

- A. North-East
- B. North-West
- C. South-East
- D. South-West

3. A man faces towards north. Turning to his right, he walks 25 metres. He then turns to his left and walks 30 metres. Next, he moves 25 metres to his right. He then turns to his right again and walks 55 metres. Finally, he turns to the right and moves 40 metres. In which direction is he from his starting point ?

- A. South-West
- B. South
- C. North-west
- D. South-East

4. If South-East becomes North and South becomes North-East and all the rest directions are changed in the same manner, the what will be the direction for West ?

- A. North-East

B. North-West

C. South-East

D. South-West

5. If Rahim moves 20 metres in East direction and then turns to his left and then moves 15 metres and then he turns to his right and moves 25 metres. After this he turns to his right and moves 15 metres. Now, how far is he from starting point ?

A. 40 m

B. 50 m

C. 25 m

D. 45 m

Answer Key

1. C

2. A

3. D

4. C

5. D

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