

GOUR INSTITUTE

PSC, Bank (Clerk/PO), SSC, Railways, S.I., Classes

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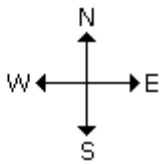
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DIRECTION SENSE TEST

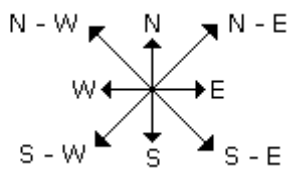
INTRODUCTION

Introduction:

There are four main directions - East, West, North and South as shown below:



There are four cardinal directions - North-East (N-E), North-West (N-W), South-East (S-E), and South-West (S-W) as shown below:



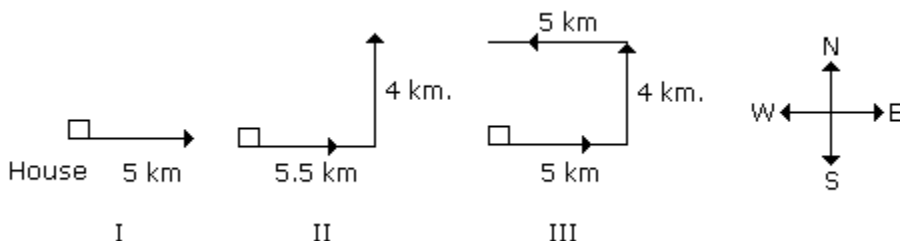
1. At the time of sunrise if a man stands facing the east, his shadow will be towards west.
2. At the time of sunset the shadow of an object is always in the east.
3. If a man stands facing the North, at the time of sunrise his shadow will be towards his left and at the time of sunset it will be towards his right.
4. At 12:00 noon, the rays of the sun are vertically downward hence there will be no shadow.

Main types of questions are given below:

Type 1:

Siva starting from his house, goes 5 km in the East, then he turns to his left and goes 4 km. Finally he turns to his left and goes 5 km. Now how far is he from his house and in what direction?

Solution:



From third position it is clear he is 4 km from his house and is in North direction.

Type 2:

Suresh starting from his house, goes 4 km in the East, then he turns to his right and goes 3 km. What minimum distance will be covered by him to come back to his house?

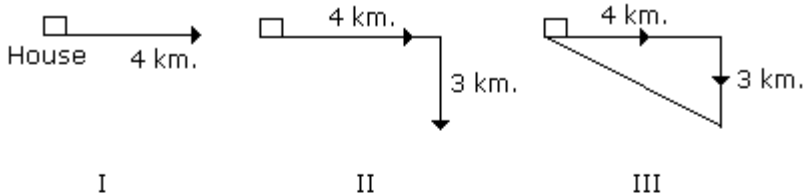
Solution:

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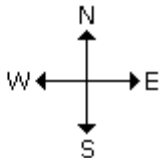


$$\begin{aligned} \text{Minimum distance} &= \sqrt{(4)^2 + (3)^2} \\ &= \sqrt{16 + 9} \\ &= \sqrt{25} \\ &= 5 \text{ km.} \end{aligned}$$

Type 3:

One morning after sunrise Juhi while going to school met Lalli at Boring road crossing. Lalli's shadow was exactly to the right of Juhi. If they were face to face, which direction was Juhi facing?

Solution: In the morning sunrises in the east.



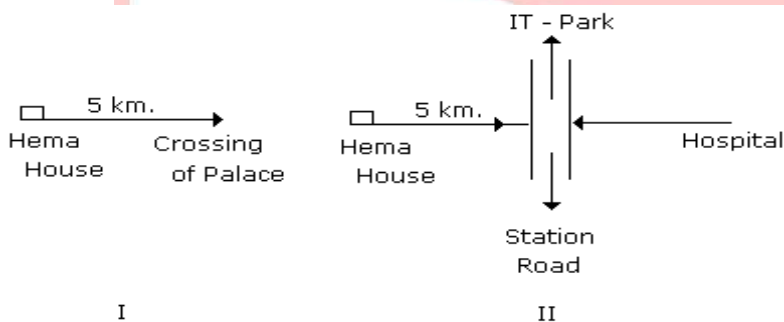
So in morning the shadow falls towards the west.

Now Lalli's shadow falls to the right of the Juhi. Hence Juhi is facing South.

Type 4:

Hema starting from her house walked 5 km to reach the crossing of Palace. In which direction she was going, a road opposite to this direction goes to Hospital. The road to the right goes to station. If the road which goes to station is just opposite to the road which goes to IT-Park, then in which direction to Hema is the road which goes to IT-Park?

Solution:



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DIRECTION SENSE TEST

EXERCISE

- Anoop starts walking towards south. After walking 15m he turns towards North. After walking 20m, he turns towards East and walks 10m. He then turns towards South and walks 5m. How far is he from his starting point and in which direction ?
(a) 10m, North (b) 10m, South (c) 10m, West (d) 10m, East (e) None
- A rat runs 20m towards East and turns to right, runs 10m and turns to right run 9m and again turns to left, run 5m and then turn to left, runs 12m and finally turns to left and runs 6m. which direction is the rat facing ?
(a) East (b) North (c) West (d) South (e) None
- If a boy walks from Nilesh, meets Ankur followed by kumar, Dev and then Pintu, how many metres has he walked, if he has traveled the straight distance all through ?
(a) 215 (b) 155 (c) 245 (d) 185 (e) None
- Vijayan started walking towards South, After walking 15m, he turned to the left and walked 15m. He again turned to his left and walked 15m. How far is he from his original position and in which direction.
(a) 15m, North (b) 15m, South (c) 30m, East (d) 15m, West (e) None
- Rakesh is standing at a point. He walks 20m towards the East and further 10m towards the South, then he walks 35m towards the West and further 5m towards the North, then he walks 15m towards the East. What is the straight distance in meters between his starting point and the point where he reached last ?
(a) 0 (b) 5 (c) 10 (d) Can't be determined (e) None
- Rahim started from point X and walked straight 5km West, then turned left and walked straight 2km and again turned left and walked straight 7km. in which direction is he from the point X ?
(a) North-East (b) South-West (c) South-East (d) North-West (e) None
- Ravi travelled 4 km towards South. He turned left and travelled 6 km, then turned right and travelled 4 km. How far is he from the starting point ?
(a) 8 km (b) 10 km (c) 12 km (d) 18 km (e) None
- Mohan started from point 'A' and proceeded 7 km straight towards East, then he turned left and proceeded straight for a distance of 10 km. He then turned left again and proceeded straight for a distance of 6 km, and then turned left again and proceeded straight for another 10 km. In which direction is Mohan from his starting point ?
(a) East (b) West (c) North (d) South (e) North-East
- A policeman left his police post and proceeded South 4 km on hearing a loud sound from point A. On reaching the place, he heard another sound and proceeded 4 km to his left to the point B. From B he proceeded left to reach another place C 4 km away. In which direction, he has to go to reach his police post ?
(a) North (b) South (c) East (d) West (e) None
- B is to the South-West of A, C is to the East of B and South-East of A and D is to the North of C in line with B and A. In which direction of A is D located ?
(a) North (b) East (c) South-East (d) North-East (e) None

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ANSWER SHEET

DIRECTION SENSE TEST EXERCISE

1	2	3	4	5	6	7	8	9	10
B	B	A	E	B	C	B	A	D	D

