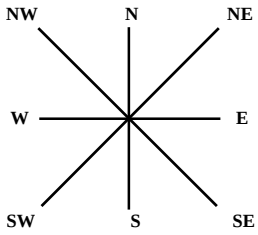
Direction Sense Test

In this test, the questions consist of a sort of direction puzzle. A successive follow-up of direction is formulated and the candidate is required to ascertain the final direction or the distance between two points. The test is meant to judge the candidate's ability to trace, follow and sense the direction correctly.



The figure shows the four main directions (North N, South S, East E, West W) and the four cardinals (North east NE, North west NW, South east SE, South west SW) to help the candidates know the directions.

Speed Developing Practice Test No. 8

1. Deepak starts walking straight towards east. After walking 75 m he turns to the left and walks 25 m straight. Again he turns to the left and walks a distance of 40m straight, again he turns to the left and walks a distance of 25 m. How far is he from the starting point?
   (1) 140 m (2) 35 m (3) 115 m
   (4) 25 m (5) None of these
2. Arun started walking towards North. After walking 30 m, he turned left and walked 40 m. He then turned left and walked 30 m. He again turned left and walked 50 m. How far is he from his original position?
   (1) 50 m (2) 40 m (3) 30 m
   (4) 20 m (5) None of these
3. Ramu went 15 km. to the west from his house, then he turned left and walked 20 km. He then turned east and walked 25 km. and finally turning left covered 20 km. How far is he from his house?
   (1) 5 km. (2) 10 km. (3) 40 km.
   (4) 80 km. (5) None of these
4. Rekha who is facing south turns to her left and walks 15 m, then she turns to her left and walks 7 metres, then facing west she walks 15m. How far is she from her original position?
   (1) 22 m (2) 37 m (3) 44 m
   (4) 7 m (5) None of these
5. Going 50 m to the south of her house, Radhika turns left and goes another 20 m. Then, turning to the north, she goes 30 m and then starts walking to her house. In which direction is she walking now?
   (1) North-west (2) North (3) South-east
   (4) East (5) None of these
6. Shailesh and Mohan start from a fixed point. Shailesh moves 3 km. northward, turns right and then covers 4 km. Mohan moves 5 km westwards, turns right and walks 3 km. The distance between Shailesh and Mohan now is
   (1) 10 km (2) 9 km (3) 8 km
   (4) 6 km (5) 4 km
7. A man walks 30 metres towards south. Then, turning to his right, he walks 30 metres. Then turning to his left, he walks 20 metres. Again, he turns to his left and walks 30 metres. How far is he from his initial position?
   (1) 30 metres (2) 20 metres (3) 80 metres
   (4) 60 metres (5) None of these
8. Suresh starts from his house towards west. After walking a distance of 30 m, he turned towards right and walked 20 metres. He then turned left and moving a distance of 10 metres, turned to his left again and walked 40 metres. He now turns to the left and walks 5 metres. Finally he turns to his left. In which direction is he walking now?
   (1) North (2) South (3) East
   (4) South-West (5) West
9. Raj travelled from a point X straight to Y at a distance of 80 m. He turned right and walked 50 m, then again turned right and walked 70 metres. Finally he turned right and walked 50 m. How far is he from the starting point?
   (1) 20 metres (2) 50 metres (3) 70 metres
   (4) 10 metres (5) None of these

10. A man walks 10 km towards north. From there he walks 6 km towards south. Then he walks 3 km towards east. How far and in which direction is he with reference to his starting point?
(1) 7 km east (2) 5 km west (3) 5 km north-east
(4) 7 km west (5) None of these

11. One morning after sunrise, Sumesh and Ratheesh were standing on a lawn with their backs towards each other. Sumesh's shadow fell exactly towards his left hand side. Which direction was Ratheesh facing?
(1) East (2) West (3) North
(4) South (5) North-east

12. A watch reads 4.30 if the minute hand points east, in what direction does the hour hand point?
(1) North (2) North-west (3) South-east
(4) North-east (5) None of these

13. Five students A, B, C, D and E are sitting in a row, D is on the right of E. B is on the left of E but is on the right of A. D is on the left of C. Who is sitting on the extreme left?
(1) A (2) B (3) C
(4) D (5) E

14. Five persons were playing card game sitting in a circle all facing the centre. Ashish was to the left of Milan Nitin was to the right of Anupam and between Anupam and Mukesh. Who was to the right of Mukesh?
(1) Nitin (2) Milan (3) Mukesh
(4) Ashish (5) Cannot be determined

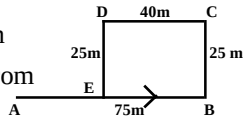
15. Facing the east, Rajesh turned left and walked 10 metres, then he turned to his left again and walked 10 m. He then turned 45° towards his right and went straight to cover 25 metres. In which direction from his starting point is he?
(1) South-west (2) South-east (3) North-west
(4) North-east (5) East

Answers: Speed Developing Practice Test No. 8

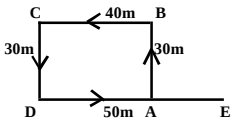
1. (2) 2. (5) 3. (2) 4. (4) 5. (1) 6. (2) 7. (5) 8. (1) 9. (4) 10. (3) 11. (4) 12. (4) 13. (1) 14. (4) 15. (3)

Explanatory Answers: Speed Developing Practice Test No. 8

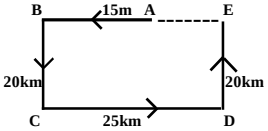
1. (2) The movements of Deepak are as shown in the figure
Clearly, EB = DC = 40 m
∴ Deepak's distance from the starting point A = (AB - EB) = (75 - 40) = 35 metres



2. (5) The movements of Arun are as shown in figure from A to E, clearly Arun's distance from his original position = AE = (DE - DA)
= (DE - BC) = 10 m.

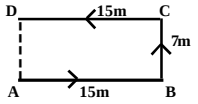


3. (2) The movements of Ramu are as shown in figure.

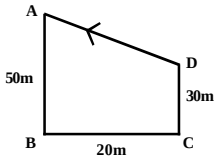


∴ Ramu's distance from his house at A = AE
= (BE - AB) = (CD - AB) = (25 - 15)km = 10 km

4. (4) The movements of Rekha are as shown in figure
∴ Rekha's distance from the starting point A = AD = BC = 7 m.



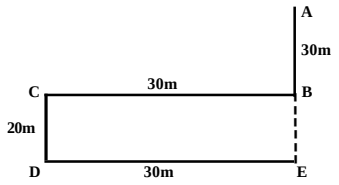
5. (1) The movements of Radhika are as shown in the figure. Thus she is now moving in the direction DA i.e. North-west.



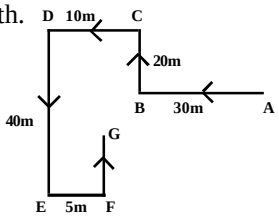
6. (2) Clearly, after travelling their total distances, Shailesh and Mohan are in the same horizontal line at E & C respectively. So distance between them is EC = EB + BC = DA + BC = 5 + 4 = 9 km.

7. (5) The movements of the man are as shown in the figure.

∴ The man's distance from the initial position
= AE = (AB + BE) = (AB + CD) = (30 + 20) m = 50 m.

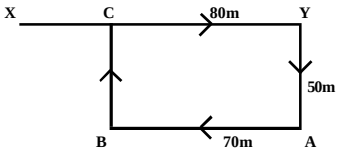


8. (1) The movements of Suresh are as shown in figure from A to G. Clearly, Suresh is walking in the direction FB, ie, North.

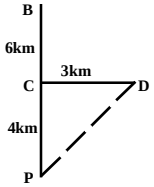


9. (4) The movements of Raj are as shown in figure. (X to Y, Y to A, A to B and B to C)

∴ Raj's distance from the starting point
= XC = (XY - YC) = (XY - BA) = (80 - 70) m = 10 m.



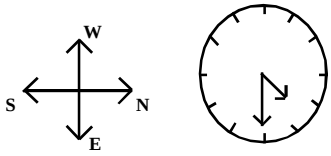
10. (3) The movements of the man are as shown in the figure. (P to B, B to C, C to D)
PC = (PB - BC) = (10 - 6) = 4 km.
Clearly D is to North-east of P.



∴ The man's distance from the starting point PD = $PC^2 + CD^2$
= $4^2 + 3^2$ = 16 + 9 = 5 km.

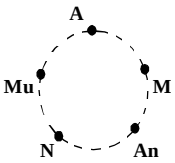
11. (4) Since Sumesh's shadow fell towards left, Sumesh is facing north. As, Ratheesh is standing with his back towards Sumesh, he will be facing south.

12. (4) Clearly to show 4.30, the position of the minute and hour hands of the clock will be as shown, if the minute hand points east, the hour hand will point to the North-east direction.



13. (1) D is to the right of E means the order is ED. B is on the left of E but right of A means ABE. D is to the left of C means DC. Combining the arrangements, we have ABEDC. So, A is to the extreme left.

14. (4) Ashish (A) is to the left of Milind (M) means that the order is A, M. Nithin N is to the right of Anupam (An) means An, N. So Nithin is between Anupam and Mukesh (Mu) means An, N, Mu. So the two possible arrangements are A, M, An, N, Mu and An, N, Mu, A, M. But in a cyclic arrangement both will be considered the same. So Ashish will be to the right of Mukesh.



15. (3) Clearly the route followed by Rajesh is as shown in figure. So matching his final direction with the direction diagram, he will be in North-west direction from the starting point.