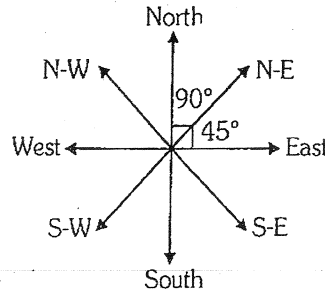


12. Direction Sense Test

These questions are designed to test candidate's ability to sense direction. Questions on direction are simpler than other questions if student possesses the right knowledge of the direction. Confusion is created in the question by giving frequent right and left turns to a specific direction. Students are, therefore, advised to use the diagram as given in the figure for the purpose of sensing direction.



Solved Examples

Directions (Q.1 to Q.2) Study the information and answer the questions given below:

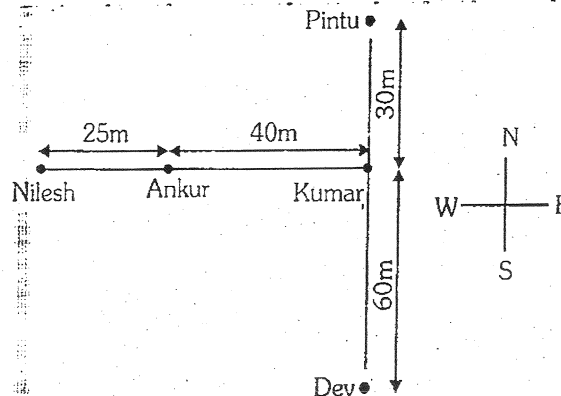
On a playing ground Dev Kumar, Nilesch, Ankur and Pintu are standing as directed below facing the North:

- (i) Kumar is 40 m to the right of Ankur.
- (ii) Dev is 60 m to the South of Kumar.
- (iii) Nilesch is 25 m to the West of Ankur.
- (iv) Pintu is 90 m to the North of Dev.

Ex.1 Who is the North-East of the person, who is to the left of Kumar?

- (1) Nilesch
- (2) Ankur
- (3) Dev
- (4) Pintu

Sol.



From fig: it is very clear that the person to the left of Kumar is Ankur and Pintu is to the North-East of Ankur. Therefore, Pintu is our answer. Hence, option (4) is the correct answer.

Ex.2 If a boy walks from Nilesch, meets Ankur followed by Kumar, Dev and then Pintu, how many metres has he walked if he has travelled the straight distance all through?

- (1) 215 m
- (2) 155 m
- (3) 245 m
- (4) 185 m

Sol. Following the instructions as given in the question, the total distance covered by the boy

$$= 25 + 40 + 60 + 90 = 215 \text{ m}$$

Hence, option (1) is the correct answer.

Ex.3 Ankit started walking towards North. After walking 30 m, he turned towards left and walked 40 m. He then turned left and walked 30 m. He again turned left walked 50 m. How far is he from his original position?

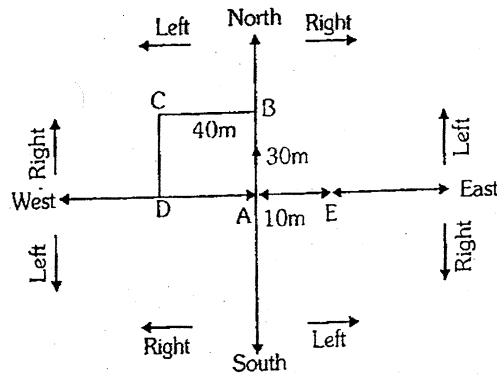
(1) 50m

(2) 40m

(3) 30m

(4) 10 m

Sol.



From fig. the final position of Ankit is E and starting point is A. Therefore, he is only 10 m away from his starting point. Hence, option (4) is the correct answer.

Ex.4 Lakshman went 15 km to the west from his house, then 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 now from his house?

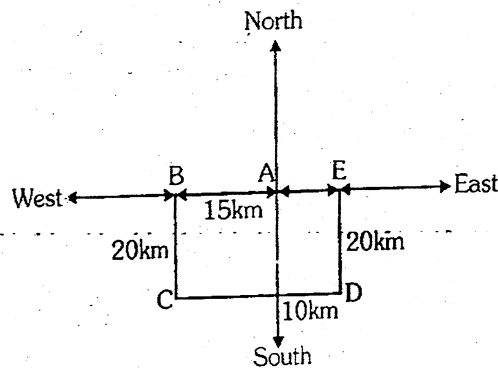
(1) 15 km

(2) 20 km

(3) 25 km

(4) 10 km

Sol.



Points A and E show the starting and end position respectively of Lakshman. It is clear that E is 10 km away from A. Hence option (4) is the correct answer.

EXERCISE

1. Siva Reddy walked 2 km west of his house and then turned south covering 4 km. Finally, He moved 3 km towards east and then again 1 km west. How far is he from his initial position?
 (1) 10 km (2) 9 km (3) 2 km (4) 4 km
2. A man walks 6 km to the east and then turn to the south 2 km. Again he turns to the east and walks 2 km. Next he turns northwards and walks 8 km. How far is he now from his starting point?
 (1) 18 km (2) 10 km (3) 16 km (4) 12 km
3. Rajesh's school bus is facing North when reaches his school. After starting from Rajesh's house, it turning twice and then left before reaching the school. What direction the bus facing when it left the bus stop in front of Rajesh's house?
 (1) East (2) North (3) South (4) West
4. Anil wants to go the university. He starts from his house which is in the East and comes to a crossing. The road to his left ends in a theatre, straight ahead is the hospital. In which direction is the University?
 (1) East (2) North (3) South (4) West
5. If South-East becomes North: North-East becomes West and so on, what will West be come?
 (1) North (2) East (3) South-East (4) North-West
6. Starting from a point X, Ravi walked 20 m towards South. He turned left and walked 30m. He then turned left and walked 20 m. He again turned left and walked 40 m and reached at a point Y How far and in which direction is the point Y from the point X?
 (1) 15m East of X (2) 10m West of X (3) 15m West of X (4) 10m East of X
7. Lakshman went 15 kms to the West of his house, then turned left and walked 20 kms. He then turned East and walked 25 kms and finally turning left covered 20 kms. How far was he from his house?
 (1) 5 kms (2) 10 kms (3) 40 kms (4) 80 kms
8. Starting from a Point P, Ramu walked 40 m towards South. He turned left and walked 60 m. He then turned left and walked 40 m. He again turned left and walked 70 m and reached a point Q. How far and in which direction is the point Q from the point P.
 (1) 20 m West (2) 10 m East (3) 10 m North (4) 10 m West
9. Going 50m to the south of her house, Lata turns left and goes another 20m. Then, turning to the North, she goes 30m and then starts walking to her house. In which direction is she walking now?
 (1) North-West (2) North (3) South-East (4) East
10. Sahithi who is facing South turns to her left and walks 15 m, then she turns to her left and Walks 7m, then facing West she walks 15m. How far is she from her original position?
 (1) 10m (2) 7m (3) 30m (4) 15m
11. A,B,C and D are playing cards. A and B are partners. D faces towards North. If A faces towards West, then who faces towards south?
 (1) C (2) B (3) D (4) E
12. A person walks facing north 10m and the he turn left and walks 5m. He again turns left and walks 10m. How far is he from his original position and towards which direction?
 (1) 20m South (2) 15m West (3) 10m East (4) 5m West
13. Anitha started from home and walked some distance towards North-East and then turned 90 degrees left. After sometime she again turned 90 degrees left. In what direction is she walking now?
 (1) North-West (2) South-West (3) South (4) East

14. Amar was facing North. He turns right and walks 20m. Then he turns again and walks 10m. Then he turns again and walks 60m. In which direction is he from the starting point?
 (1) North (2) North-East (3) North-West (4) East
15. Sunil started walking from a point 'P' towards South. After walking 40m, he took a turn. He then walked 30m and reached a point Q. What is the straight line distance between P and Q, and Q is towards which direction of P?
 (1) 60 meters, South east (2) 50 meters, South West
 (3) 50 meters, South east (4) None of these
16. A man is facing west. He turns 45° in the clockwise direction and then another 180° in the same direction and then 270° in the anticlockwise direction. Which direction is he facing now?
 (1) South (2) North-West (3) West (4) South-West
17. A watch reads 4 : 30. If the minute - hand points to East, in which direction does the hour-hand point?
 (1) North-East (2) South-East (3) North-West (4) North
18. Kunal and Vikram start from a fixed point. Kunal moves 4 km to the South, then turns left and moves 3 km. Vikram moves 3 km towards West, then turns right and moves 4 km further. How far apart are they now?
 (1) 7 km (2) 13 km (3) 10 km (4) 14 km
19. A man drove his car 5 km towards eastward direction. He turned right and went for 3 km, then he turned west and drove for 1 km. How far is he from the starting point?
 (1) 5 km (2) 6 km (3) 10 km (4) 20 km
20. A man walks 10 m in front and then walks 10 m towards right. Again turning to the left each time, he walks 5m, 15 m and 15 m respectively. At present, how far is he standing from the starting point?
 (1) 20 m (2) 23 m (3) 10 m (4) 5 m
21. A is to the South-East of C, B is to the East of C and North-East of A. If D is to the North of A and North-West of B, in which direction of C is D located?
 (1) North-West (2) South-West (3) North-East (4) South-East
22. A man starts from his house and walks 10 km in South direction, then he turns right and goes 6 km, again he turns right and goes 10 km and finally turns right and goes 6 km. At what distance is he from the starting point and in which direction?
 (1) 2 km, North (2) 3 km, South (3) At the starting point (4) 4 km, East
23. A man is facing south. He turns 135° in the anti clockwise direction and then 180° in the clockwise direction. Which direction is he facing now?
 (1) North-east (2) North-west (3) South-east (4) South-west
24. A man is facing north-west. He turns 90° in the clockwise direction and then 135° in the anti clockwise direction. Which direction is he facing now?
 (1) East (2) West (3) North (4) South
25. I am facing east. I turn 100° in the clockwise direction and then 45° in the anti clockwise direction. Which direction am I facing now?
 (1) East (2) North-east (3) North (4) South-west

EXERCISE

ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ans.	4	2	4	2	3	2	3	4	1	2	4	4	2	2	3	4	1	3	1	4
Ques.	21	22	23	24	25															
Ans.	3	3	4	2	2															