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Direction Sense Questions for SBI PO Pre and IBPS PO Pre Exams.

Direction Sense Quiz 39

Directions (1-2): Study the following information and answer the given questions carefully.

Six people A, B, M, N, X and Y started from a market together and reached their respective houses.

The house of M is 5 km north to the market.

X's house is to the west of A's house and the distance between them is 5 km.

N's house is 10 km north to X's house and the house of N is towards east of M's house.

The distance between Y's and B's houses is 10 km, and Y's house is to the north of B's house.

B's house is 2 km east of A's house.

1. In which direction is house of X with respect to house of Y?

- | | | |
|--------------|--------------|---------|
| A. Southwest | B. Southeast | C. West |
| D. South | E. Northeast | |

2. What is the shortest distance between M and A?

- | | | |
|--------------------|------------------------|----------|
| A. $10\sqrt{2}$ km | B. 10 km | C. 20 km |
| D. 15 km | E. Can't be determined | |

Directions (3-4): Study the following information and answer the given questions carefully.

One day two friends Anuj and Manu, planned to meet at boating point. Anuj started walking from a club, in south west direction, he walked for 10m and reached a stadium. Then he went west from there, walked for 7m and reached at point U. Then he took a left turn,

walked 8m and reached boating point. Meanwhile, Manu started walking in west direction from a temple which is towards west of club, after walking 14m, he reached a street A. Then he took a left turn went 16m and reached a post office, at last he took a left turn, walked 7m and reached boating point which is at the half way of distance between A and Temple. There he met Anuj.

3. What is the direction of A with respect to boating point?

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

4. If Anuj takes four 45 degree turns in clockwise direction and one 90° turn in anticlockwise direction after reaching boating point, then in which direction he is facing now?

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

Directions (5-8): Study the following information carefully and answer the questions given beside.



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Rajiv started walking from point A to point B, which is 5m south of A. Then he took a left turn and walked for 15m to reach point C. Then he took a right turn and walked for 25m to reach point D. From there he took a left turn and walked for 25m to reach point E. Then he took a left turn and walked for 30m to reach point F. Then again, he took a right turn to reach point G, which is 15m from point F. Finally, he took a right turn and walked for 5m to reach point H.

5. What is the direction of Point A with respect to Point H?

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

6. What is the direction of Point C with respect to Point F?

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

Correct Answers:

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

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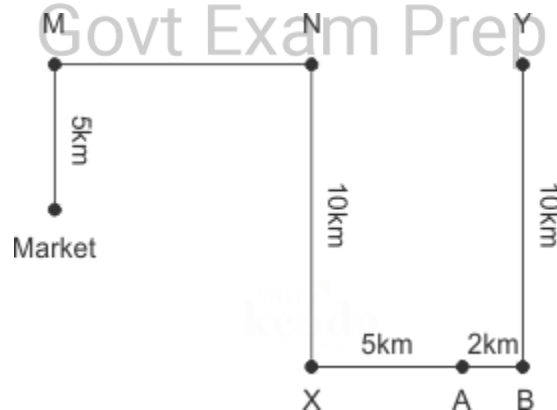
Common Explanation (1-2)

References:

- The house of M is 5 km north to the market.
- X's house is to the west of A's house and the distance between them is 5 km.
- N's house is 10 km north to X's house and the house of N is towards east of M's house.
- The distance between Y's and B's houses is 10 km, and Y's house is to the north of B's house.
- B's house is 2 km east of A's house.

Inferences:

Follow above conditions and we get following diagram:



1. Hence, option A is correct.
2. As we don't know the distance between M and N, we can't find the shortest distance between M and A.

Hence, option E is correct.

Common Explanation (3-4)

References:

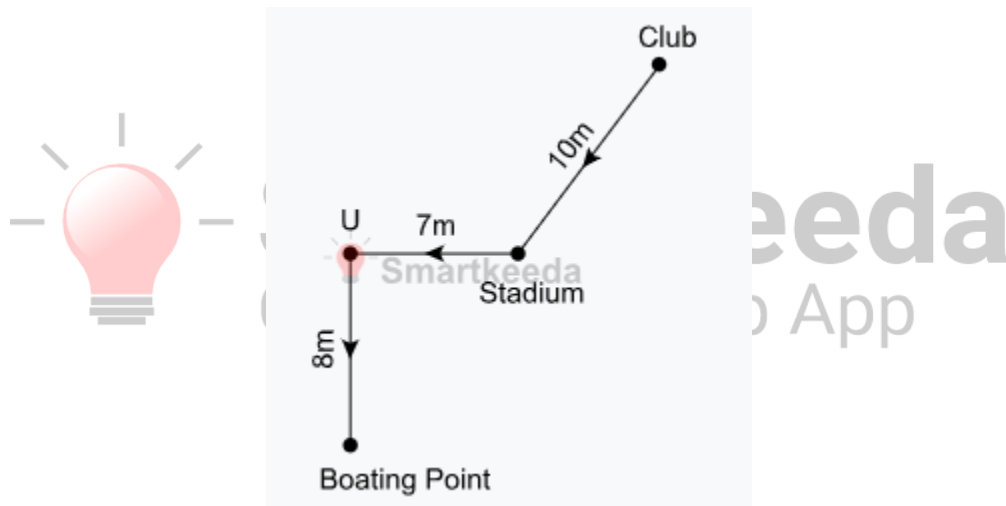
Anuj started walking from a club, in south west direction, he walked for 10m and reached a stadium.

Then he went west from there, walked for 7m and reached at point U.

Then he took a left turn, walked 8m and reached boating point.

Inference:

From above statements, we get following figure:



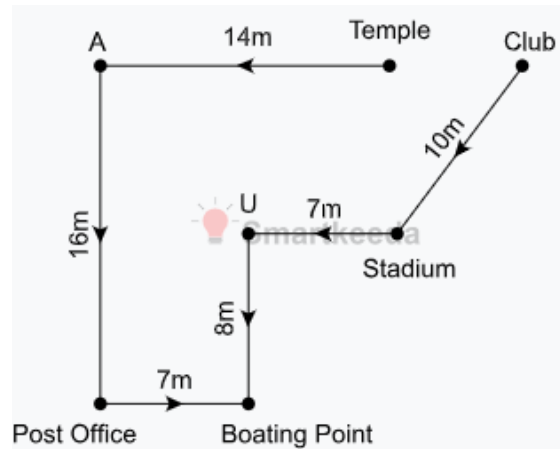
Reference:

Manu started walking in west direction from a temple which is towards west of club, after walking 14m, he reached a street A.

Then he took a left turn went 16m and reached a post office, at last he took a left turn, walked 7m and reached boating point which is at a half way distance between A and Temple.

Inference:

From above statement, we get following figure:



Final arrangement:

3. Following the common explanation, we get **“North West”**.

Hence, option D is correct.

4. Following the common explanation, we get **“West”**, because at boating point he is facing south, so after four 45 degree turns in clockwise direction, he will face north, then after one 90 degree turn in anticlockwise direction, he will be facing west.

Hence, option E is correct.

Common Explanation (5-8)

References:

Rajiv started walking from point A to point B, which is 5m south of A. Then he took a left turn and walked for 15m to reach point C. Then he took a right turn and walked for 25m to reach point D. From there he took a left turn and walked for 25m to reach point E. Then he took a left turn and walked for 30m to reach point F. Then again, he took a right turn to reach point G, which is 15m from point F. Finally, he took a right turn and walked for 5m to reach point H.

Inference:

So, following the instructions, we will draw the diagram as follow:

5. We can see that Point A is in the North West direction of Point H.

Hence option B is correct.

6. We can see that Point C is in the South West direction of Point F.

Hence option D is correct.

7. We can see that using Pythagoras's theorem, we can calculate the distance in between Point F and Point D.

So, $DF = \sqrt{(30^2 + 25^2)} = \sqrt{(900 + 625)} = \sqrt{1525} = 39.01 \approx 39$ m approximately.

Hence option E is correct.

8. We can see that A, F and G while B C and H lie on the same straight line.

Hence option E is correct.



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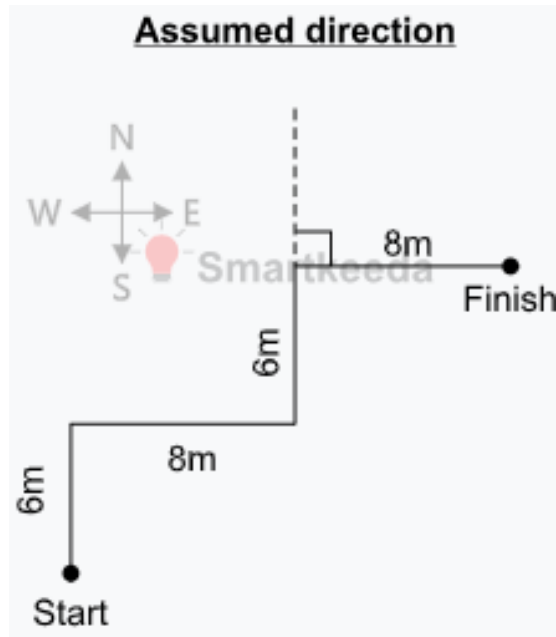
9. **References:**

- Rajesh starts walking towards north and covers 6 m.
- He turns towards his right and walks 8 m.
- He then takes a left turn and walks 6 m again.
- From there he turns 90° clockwise and walks 8 m.

Inferences:

From the given statements,

When Rajesh starts his journey from walking towards North, his final journey ends facing East. Follow the diagram,

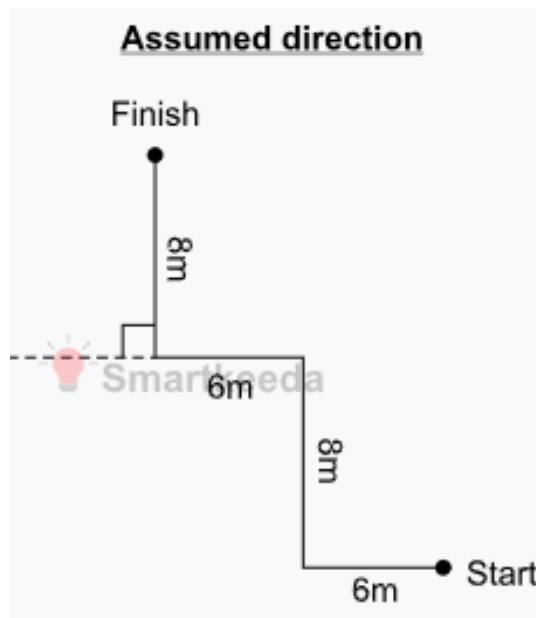


References:

- He realises that the direction which he was considering north is actually west.

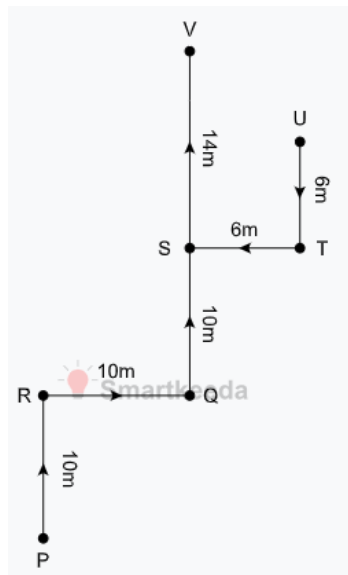
Inferences:

Instead of starting his journey from North, it starts from West. So the actual final direction is North.



Hence, option C is correct.

10. From information given in question we get following arrangement:



Distance between V and U:

As per above arrangement $VS = 14$ m, $TU = 6$ m and TS is also 6 m.

If we draw a line from U to a point A (as given below), a right angle triangle UAV will form.

Where:

$UA = 6$ m (parallel to TS)

$VA = VS - AS = 14 - 6 = 8$ m

According to Pythagoras theorem:

$$VU = \sqrt{6^2 + 8^2}$$

$$= \sqrt{36 + 64} = \sqrt{100} = 10 \text{ m}$$



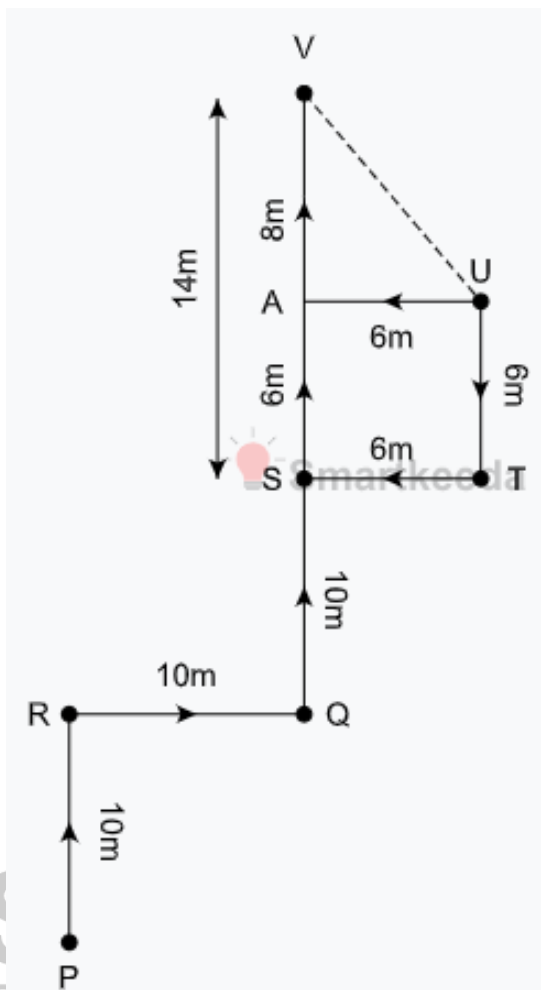
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From above arrangement we get "10 m".

Hence, option A is correct.



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