

# Direction Tests – CA Foundation Logical Reasoning Questions

March 13, 2024 / [CA Foundation](#) / By [Raju](#)

These Direction Tests – [CA Foundation Logical Reasoning Questions](#) are designed strictly as per the latest syllabus and exam pattern.

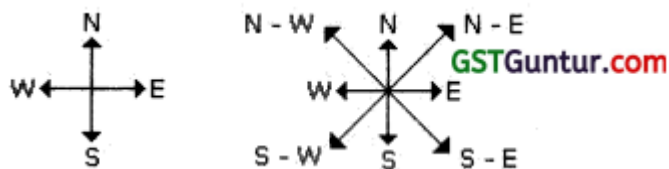
## Direction Tests – CA Foundation Logical Reasoning Questions

Direction and Distance topic is one of the easiest topic in the reasoning section and we can score full marks with great accuracy if we learn the nuances of this topic.

In this topic, we are going to discuss how to solve direction sense questions along with the shortcut tricks to solve the question within a minute. First make a sketch of the data that is provided to solve the direction test.

Directions questions asked in the exam are based on two principles- (i) Distance (ii) Direction

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



The first point you need to remember is that each main direction change undergoes a  $90^\circ$  change in direction e.g. from North to West / East it will be  $90^\circ$  change. But the change between North and North-East is only  $45^\circ$ .

Important Points To Keep In Mind In Left Right Movement:

1. Always mark the starting point and end-point different from the other points.

2. Always be attentive while taking right and/or left turns.
3. Mark distances with a scale (if your rough diagrams confuse you).
4. A person facing east, on taking left will face towards north and on taking the right turn towards south.
5. A person facing north, on taking left will face towards west and on taking the right turn towards east.
6. A person facing west, on taking left will face towards south and on taking right turn towards north.
7. A person facing south, on taking left will face towards east and on taking the right turn towards west.

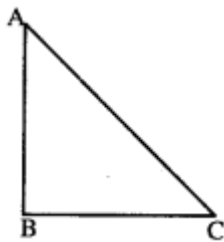
Note: When a question says moved towards left or right side, we assume that the movement is at an angle of 90 degrees.

Keep in mind that when a person moves to his left side, he will move towards anti-clockwise direction and when a person moves to his right side, he will move towards clockwise direction.

8. One should be aware of basic geometric rule, such as Pythagoras Theorem.

Pythagoras Theorem  $\Rightarrow AC^2 = AB^2 + BC^2$

$$\therefore AC = \sqrt{AB^2 + BC^2}$$



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Now, consider the following examples:

Example 1:

Neha walked 2 km west of her house and then turned south covering 4 km. Finally, she moved 3 km towards east and then again 1 km west. How far is she from her initial position?

- (a) 7 km
- (b) 3 km
- (c) 4 km
- (d) 12 km

Solution:

(c) is correct.

Neha starts from her house at A, moves 2 km west upto B, then 4 km to the south upto C, 3 km east upto D and finally 1 km west upto E. Thus, her distance from the initial position  $A = AE = BC = 4$  km.

Hence, the answer is (c).



Example 2:

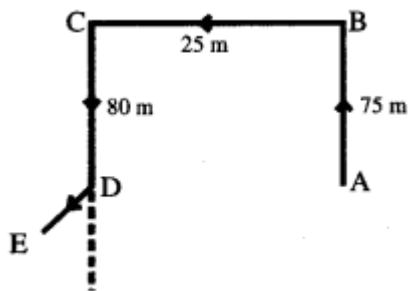
Shweta moved a distance of 75 metres towards the north. She then turned to the left and walking for about 25 metres, turned left again and walked 80 metres. Finally, she turned to the right at an angle of  $45^\circ$ . In which direction was she moving finally?

- (a) South
- (b) South-West
- (c) North-East
- (d) North-West

Solution:

(b) is correct.

Shweta started moving from A, moved 75 m upto B, turned left and walked 25 m upto C. She then turned left again and moved 80 m upto D. She turned to the right at an angle of  $45^\circ$  & finally moved in the direction DE i.e., South-West. Hence, the answer is (b).



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Example 3:

Varun 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 now from his starting point ?

- (a) South-East
- (b) South-West

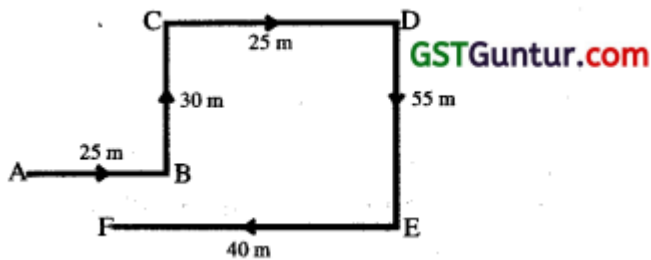
- (c) South
- (d) North-West

Solution:

(a) is correct.

Varun face is towards north. He turns towards right from north direction & walks 25 m towards east upto B, turns left and moves 30 m upto C, turns right and goes 25 m upto D. At D, he turns to right towards the south and walks 55 m upto E. Next, he again turns to right and walks 40 m upto F, which is his final position. F is to the south-east of A. So, he is to the south-east from his starting point.

Hence, the answer is (a).



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Example 4:

Pankaj is facing west. He turns  $45^\circ$  in the clockwise direction and then again another turns with  $180^\circ$  in the same direction i.e. clockwise direction, after that he turns  $270^\circ$  in the anti-clockwise direction. Which direction is he facing now ?

- (a) North-West
- (b) West
- (c) South-West
- (d) South

Solution:

(c) is correct.

Pankaj is facing towards west means initially facing in the direction OA. He turned with  $45^\circ$  in clockwise & faces in the direction OB. After that moving  $180^\circ$  clockwise, he faces in the direction OC. Finally, he turned with  $270^\circ$  anti-clockwise, he faces in the direction OD, which is South-West. Hence, the answer is (c).



**Previous Year Exam Questions**

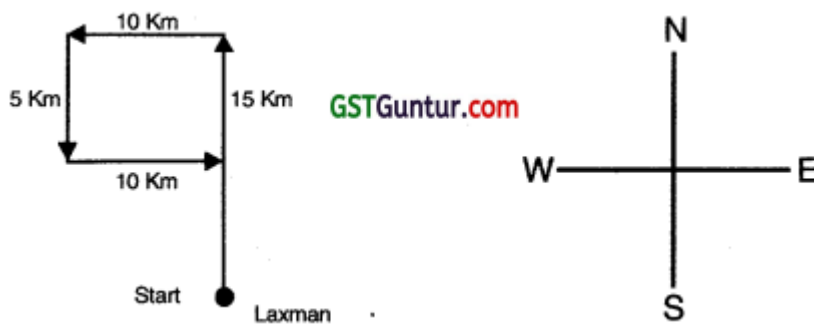
Question 1.

Laxman went 15 Kms. to North then he turned West and covered 10 Kms. Then he turned South and covered 5 kms. finally turning to East he covered 10 Kms. In which direction is he moving now ? [1 Mark, May 2018]

- (a) East
- (b) West
- (c) North
- (d) South

Solution:

(a)



Laxman is moving towards East.

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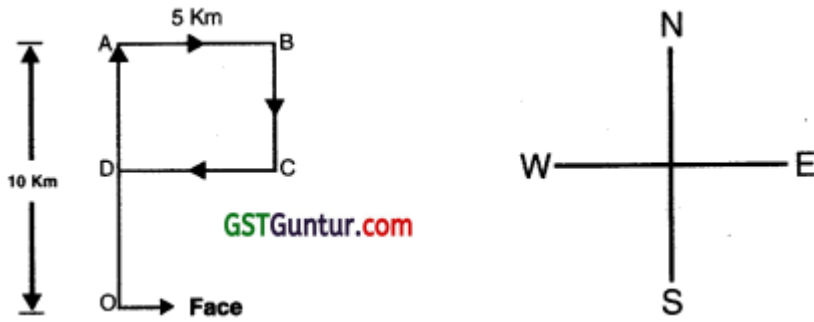
Question 2.

A man is facing East, then he turns left and goes to 10 metres then turns right and goes 5 metres then goes 5 metres to the South and from there 5 metres to West. In which direction is he from his original place? [1 Mark, May 2018]

- (a) East
- (b) West
- (c) North
- (d) South

Solution:

(c)



He is in North direction from his original place.

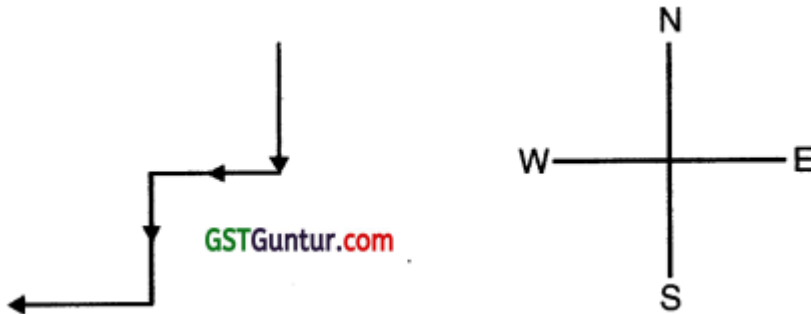
Question 3.

X walks southwards and then turns right then left and then right. In which direction is he moving now ? [1 Mark, May 2018]

- (a) South
- (b) North
- (c) West
- (d) South-west

Solution:

- (c)



Clearly Mr. X is moving in West direction.

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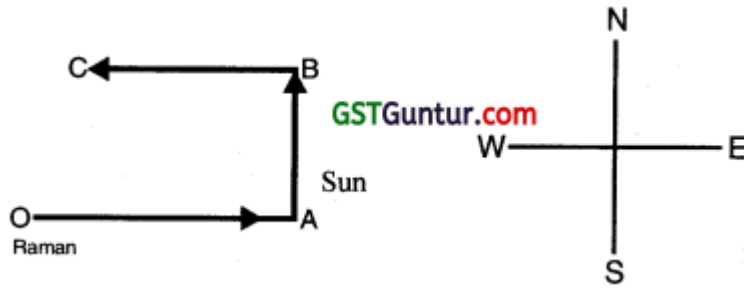
Question 4.

Mr. Raman starts walking in the morning facing the Sun. After sometimes, he turned to the left. After sometimes later again he turned to his left. In what direction is he moving now? [1 Mark, May 2018]

- (a) East
- (b) North
- (c) West
- (d) South

Solution:

- (c)



Now Raman is moving towards West.

Question 5.

I stand with my right hand extended side-ways towards South. Towards which direction will my back be ? [1 Mark, May 2018]

- (a) East
- (b) South
- (c) North
- (d) West

Solution:

- (d)



Clearly my right hand extended towards South side – means Left hand towards North. Face towards East & back will be towards West direction.

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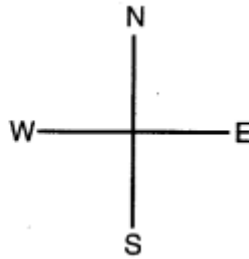
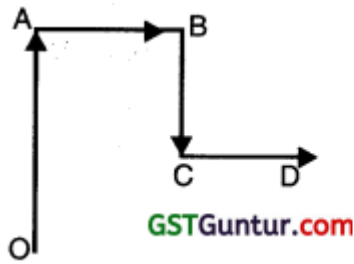
Question 6.

You go towards North, after sometimes turn right, then right then go to the left. In which direction are you now moving ? [1 Mark, May 2018]

- (a) East
- (b) South
- (c) West
- (d) North

Solution:

- (a)



Clearly in East direction.

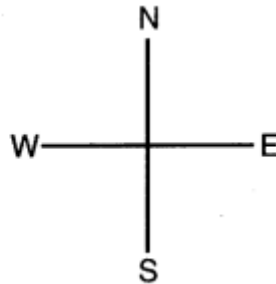
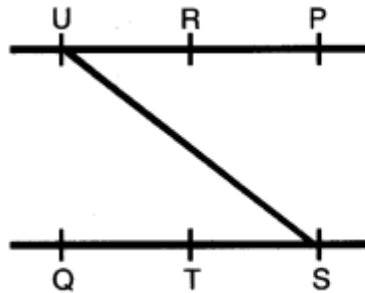
Question 7.

Six flats on a floor in two rows facing North and South are allotted to P, Q, R, S, T and U. If Q gets a North facing flat and is not next to S. S and U get diagonally opposite flat. R next to U gets a South facing flat and T gets a North facing flat. Whose flat is between Q and S ? [1 Mark, Nov. 2018]

- (a) T
- (b) U
- (c) R
- (d) P

Solution:

(a)



Clearly Flat 'T' is lying between Q & S.

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Question 8.

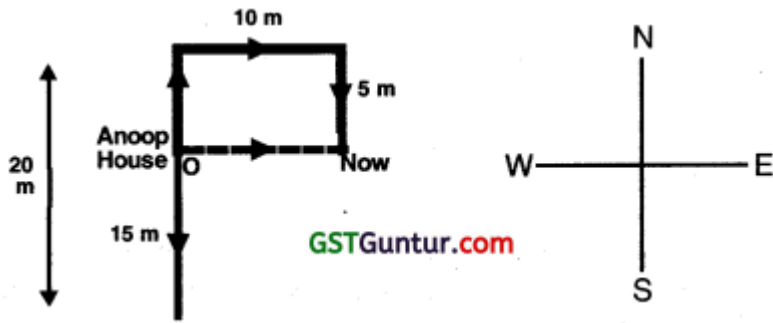
Anoop Starts walking towards South. After walking 15 metres he turns towards North. After walking 20 metres he turns towards East and walks 10 metres. He then turns towards South and walks 5 metres. In which direction is he from the original position ? [1 Mark, Nov. 2018]

- (a) North
- (b) South
- (c) East
- (d) West

Solution:



(c)



Now Anoop is in 'East direction' with respect to his original Position O.

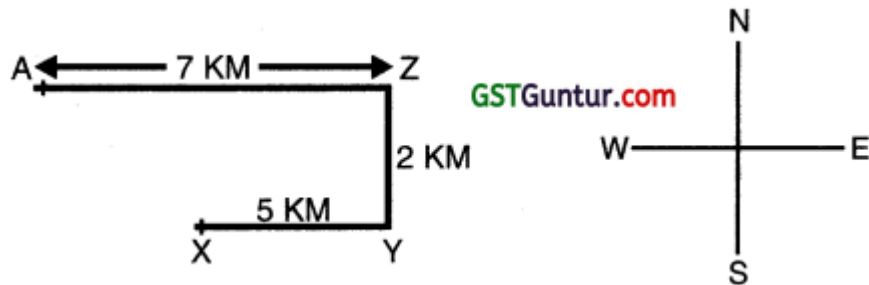
Question 9.

Rahim started from point X and walked straight 5 km. East, then turned left and walked straight 2 km. and again turned left and walked straight 7 km. In which direction is he from the point X ?

- (a) North-East
- (b) South-West
- (c) South-East
- (d) North-West

Solution:

(d)



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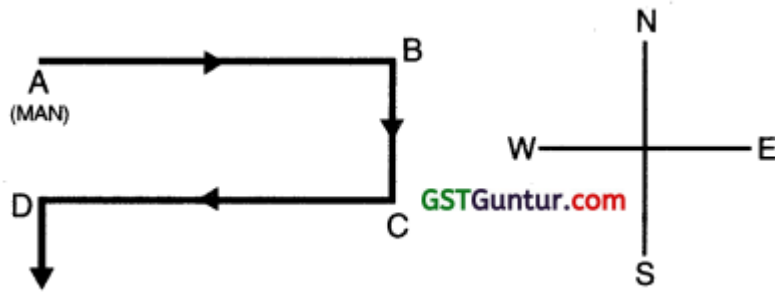
Question 10.

A man started walking towards East. After moving a certain distance, he turns to his right. After moving some distance, he turns to his right again. After moving a little he turns now to his left currently, he is going in \_\_\_\_\_ direction. [1 Mark, Nov. 2018]

- (a) East
- (b) West
- (c) South
- (d) North

Solution:

(c)



The man is going towards South.

Question 11.

Manu wants to go to the market. He starts walking from his house towards North reaches at a crossing after 30 m. He turns towards East, goes 10m till the second crossing and turns again, moves towards South straight for 30 m where marketing complex exists. In which direction is the market from his house ? [1 Mark, Nov. 2018]

- (a) North
- (b) South
- (c) East
- (d) West

Solution:

(c)



Clearly the Market exists towards East from his house.

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Question 12.

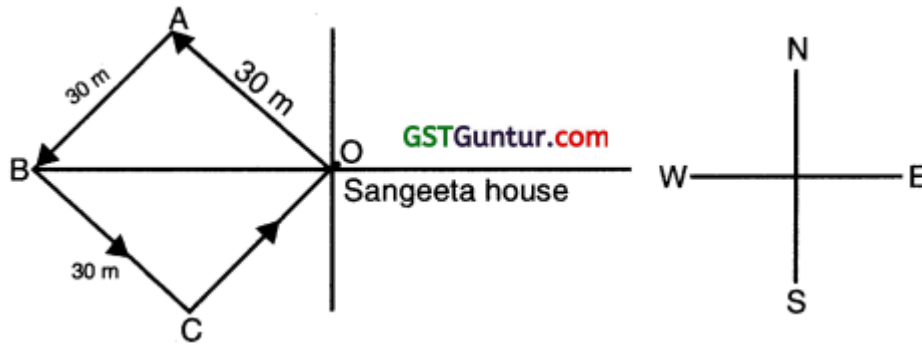
Sangeeta leaves from her home. She first walk 30 metres in North-West direction, and then 30m in South West direction, next she walks 30 metres in South-East direction.

Finally she turns towards her house. In which direction is she moving? [1 Mark, June 2019]

- (a) North-West
- (b) North-East
- (c) South-East
- (d) South-West

Solution:

(b)



Finally Sangeeta is moving towards North-East direction.

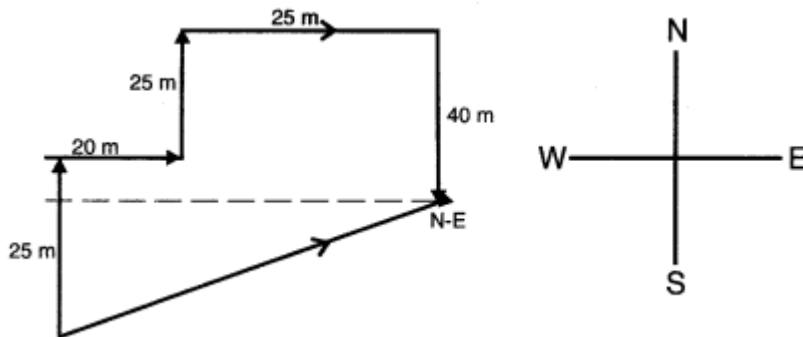
Question 13.

When a person faces north and walk 25m and he turn right and walk 20m and again turns left and walk 25m, and turns right 25 m and turns right and walks 40m. In which direction is he now from his starting point? [1 Mark, June 2019]

- (a) North-West
- (b) North-East
- (c) South-East
- (d) South-West

Solution:

(b)



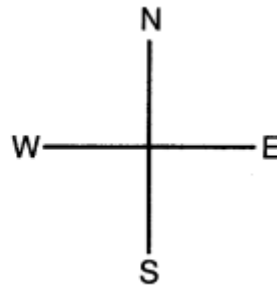
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Question 14.

Madhuri moved a distance of 75 metres towards North. She then turned to her left and walked about 25m, turned left again and walked 80m. Finally she turned to the right at an angle of 45°. In which direction was she moving finally? [1 Mark, June 2019]

Solution:

(c)



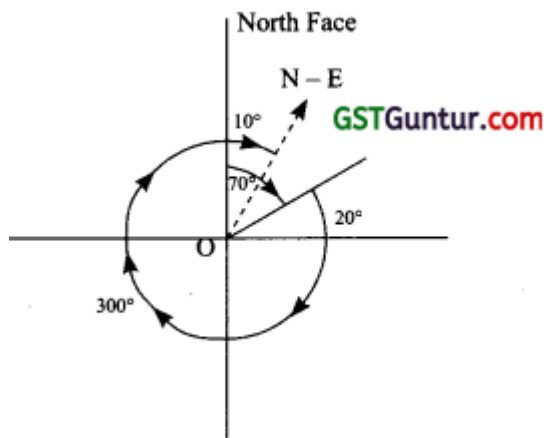
Question 15.

A person is facing towards North. He moves  $70^\circ$  clock-wise direction. Again he is moving  $300^\circ$  clock-wise direction. Now, in which direction is he presently facing ? [1 Mark, June 2019]

- (a) North-West
- (b) South-East
- (c) North-East
- (d) South-West

Solution:

(c)



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