

# DIRECTIONS

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## BASICS



# DIRECTION

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- WHAT IS DIRECTION ?

The direction is the information contained in the relative position of one point with respect to another point





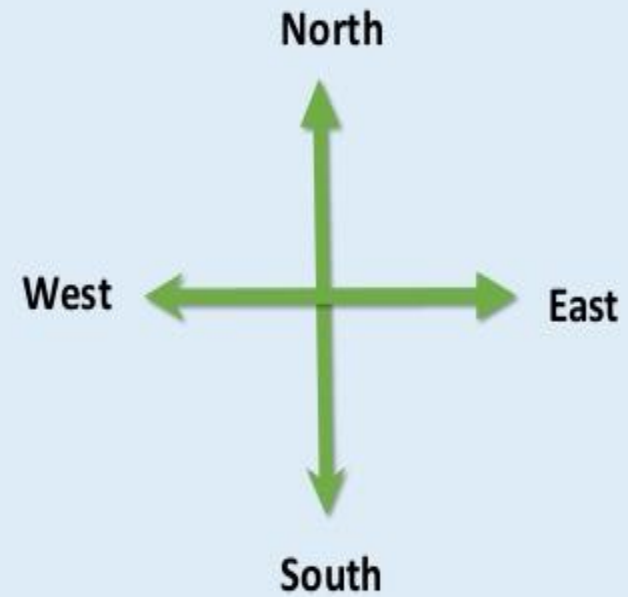
# DIRECTION - TYPES

## Main Directions

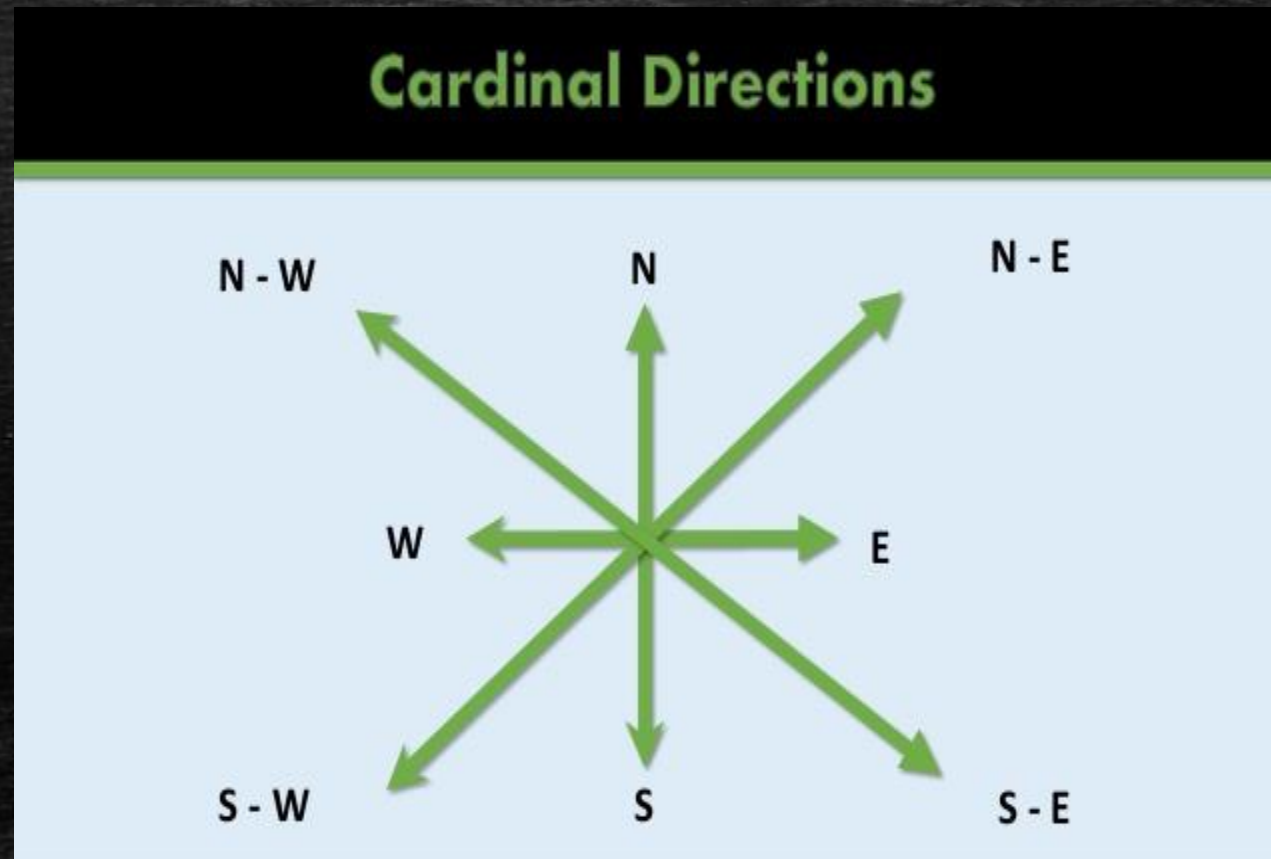
- ➡ North
- ➡ South
- ➡ East
- ➡ West



## Main Directions

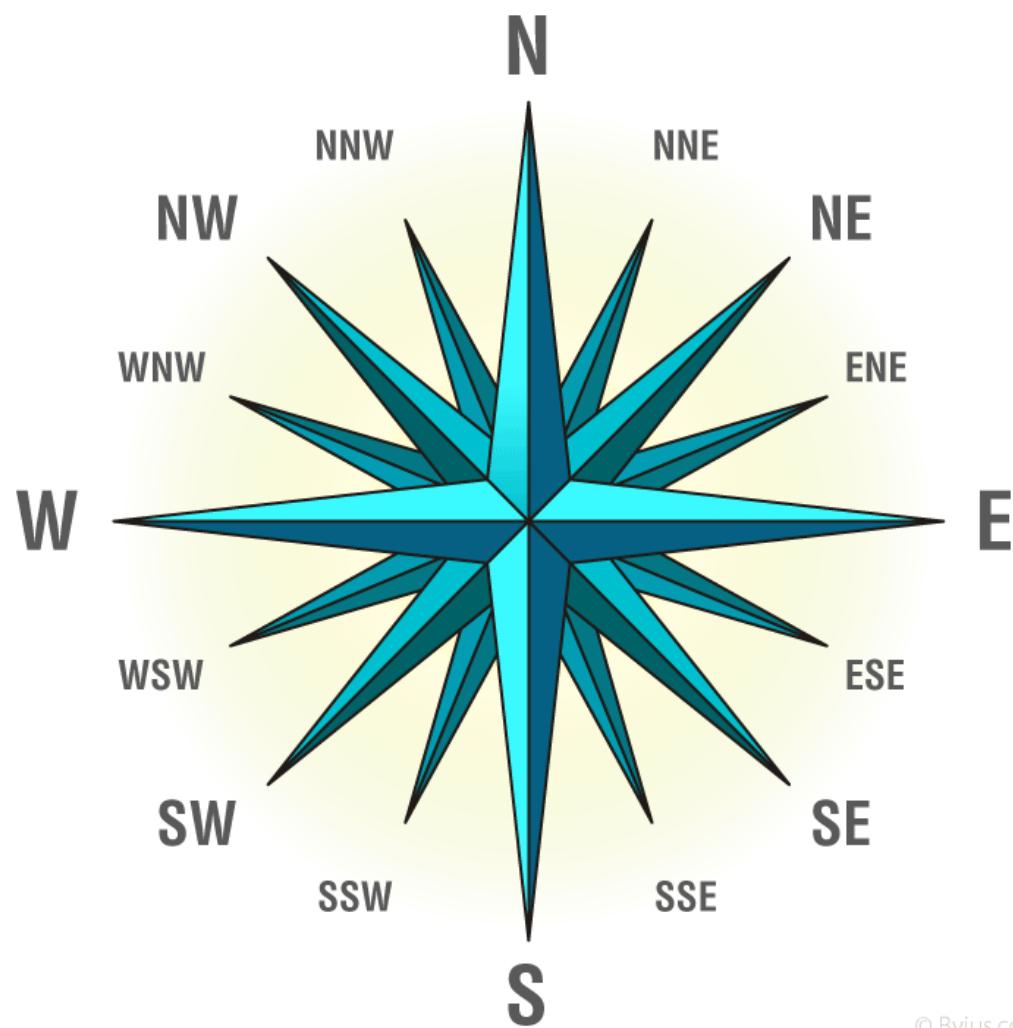


# DIRECTIONS - 8



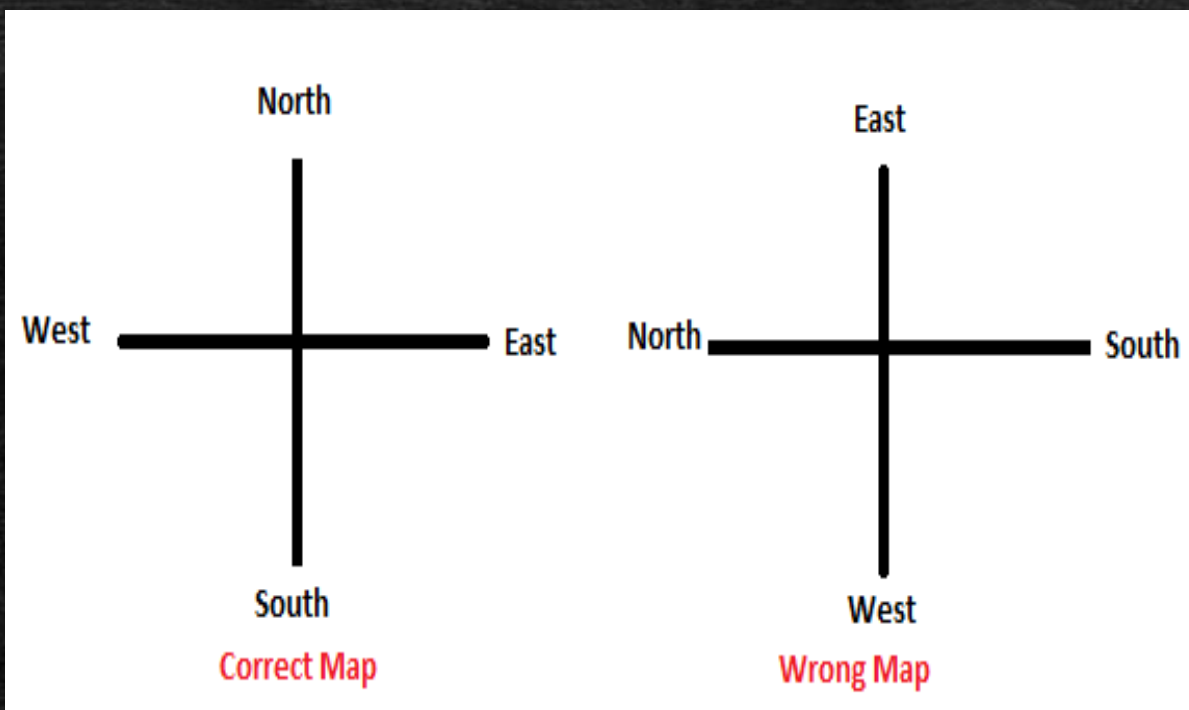


# DIRECTIONS - 16



# CORRECT MAP VS WRONG MAP

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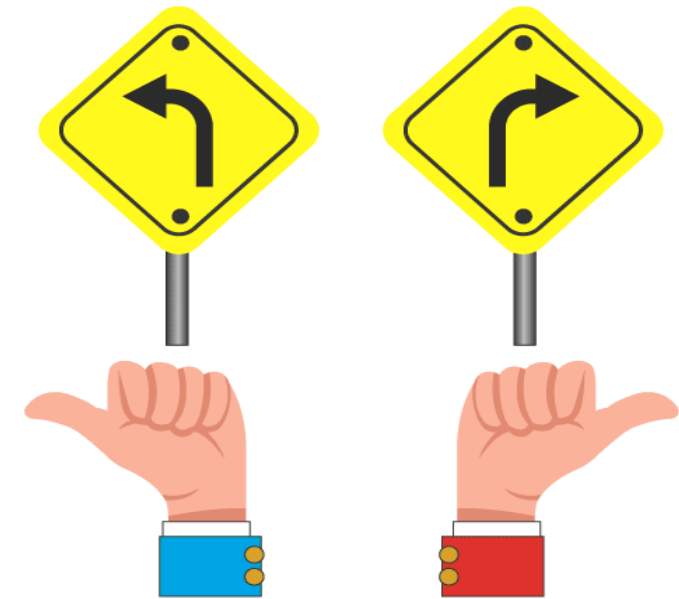




# The Right and Left directional movement

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- The right and left movement of a person is always with reference to the body moving in the scenario. It is not with respect to the person who is solving the questions.



**I want to know !**

Which is my **left** hand ?  
Which is my **right** hand ?

## KEY POINTS

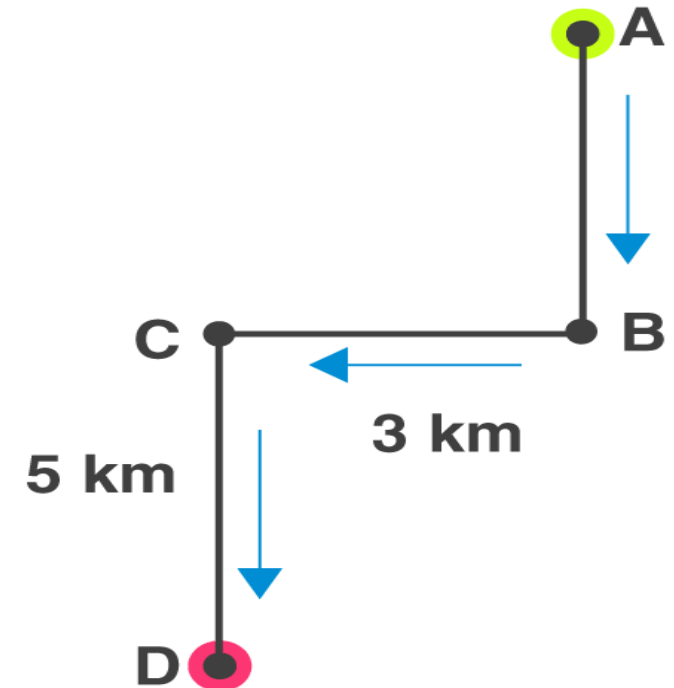
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- A person is walking towards you, and after walking for a few meters, he takes a right turn. Which direction is he moving?
- The direction we are facing is always assumed as North. Hence, if a person is walking towards us, he is walking facing(towards) South



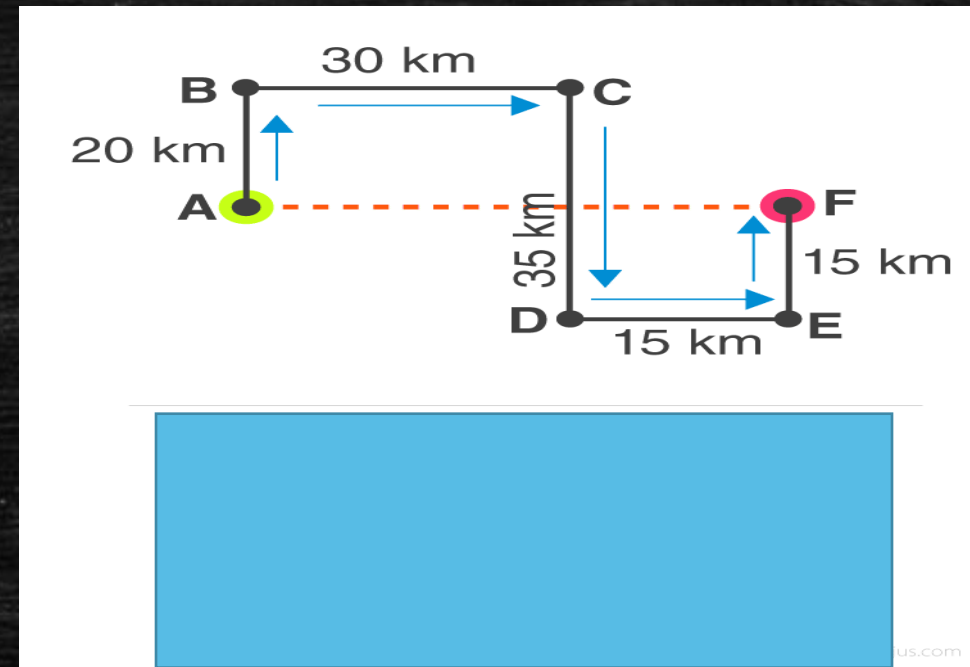
# DIRECTION

- Mr Deepak Mohan walks 5 km towards the south and then turns to the right. After walking 3 km he turns to the left and walks 5 km. What direction is he facing right now?



# DIRECTION

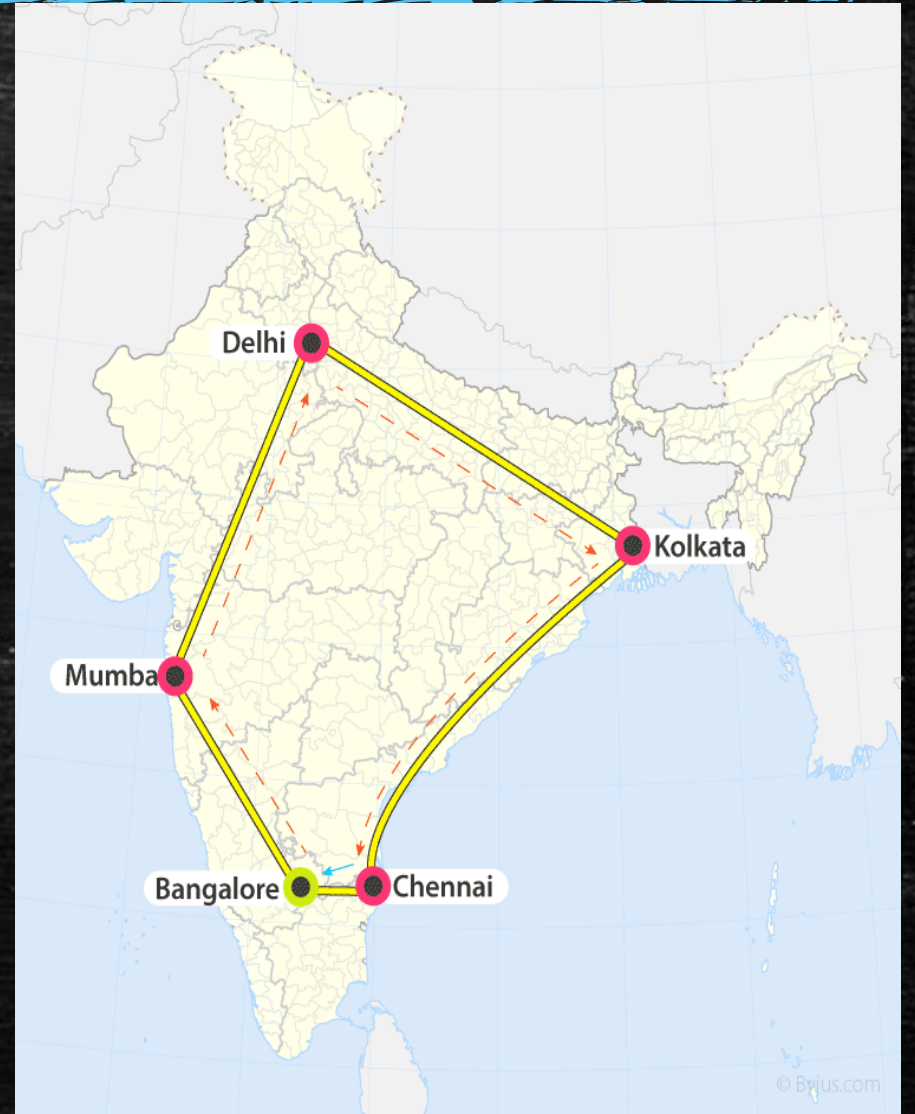
- Sowmya Krishnan walked 20 m towards the north. Then she turned right and walks 30 m. Then she turns right and walks 35 m. Then she turns left and walks 15 m. Finally she turns left and walks 15 m. In which direction and how many meters is she from the starting position?
- A. 15 m West
- B. 30 m East
- C. 30 m West
- D. 45 m East





# REFERENCE POINT

- The directional reference point of five cities
- The city Bengaluru is exactly below New Delhi, Hence Bengaluru is in South direction with respect to New Delhi whereas it is in West direction with respect to Chennai.
- Mumbai is in North West direction with respect to Bengaluru whereas Bengaluru is in South-East direction with respect to Mumbai. One should draw a cardinal direction at a reference city/place to find the direction of the other city.





# TRY

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- Mrs.Veena wants to go to the Krishna Rajendra market. She moved northwards and after covering some distance turned left and moved 4 km and reached a crossing. The road in front of her led to Jaynagar while the road on to her left led to Bangalore Medical College and the road on to her right led to the Krishna Rajendra market. In which direction the Krishna Rajendra market is located with reference to the starting point?
- A. West
- B. North-West
- C. South-West
- D. East



# SUN RAYS & SHADOW

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## Directions Problem Tricks

### At The Time of Sunrise

- ➡ If a man stands facing the east, then his shadow will be towards the west.
- ➡ If a man stands facing the North, his shadow will be towards his left.

## Directions Problem Tricks

### At The Time of Sunset

- ➡ The shadow of an object is always in the east.
- ➡ If a man stands facing the North, his shadow will be towards his right.

# SUN RAYS & SHADOW

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## Directions Problem Tricks

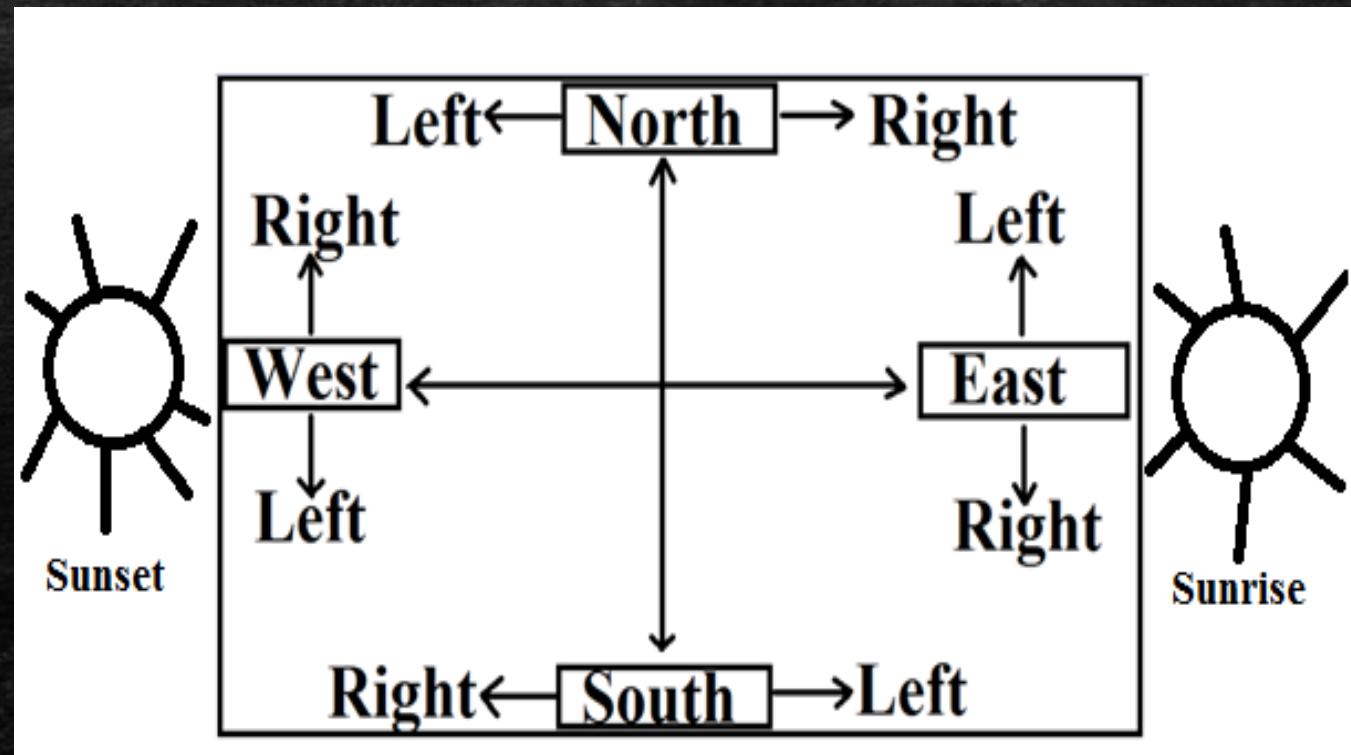
### At 12:00 Noon



The rays of the sun are vertically downward hence there will be no shadow.



# SUN RAYS & SHADOW



# TRY

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- One morning after sunrise, Nandita and Ravi were sitting in a lawn with their backs towards each other. Nandita's shadow fell exactly towards her left-hand side. Which direction was Ravi facing?
- A. East
- B. West
- C. North
- D. South



## Direction Sense Question 1

**Find the Direction & Distance, When –**

**A Person, goes 6 km in the East, then he turns to his left and goes 4 km, Finally he turns to his left and goes 6 km.**

Step 1 - A Person, goes 6 km in the East



Step 2 - then he turns to his left & goes 4 km



Step 3 - Finally he turns to his left & goes 6 km

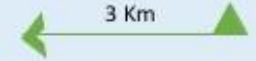


**So, 4 km is the answer & he is facing the North Direction.**

## Directions Sense Question 2

**A man starting from his house, goes 3 km in west.  
then turns to his left & walks 4 km.  
What will be the minimum distance will be covered  
by him to come back to his house?**

**Step 1 - Goes 3 km in west**



**Step 2 - he turns to his left  
& walks 4 km**



**Step 3 - Minimum Distance to come back to his house**

$$= \sqrt{(3)^2 + (4)^2}$$

$$= \sqrt{9 + 16}$$

$$= \sqrt{25}$$

$$= 5$$



**So, The Minimum Distance is = 5 km**



## Directions Sense Question 3

**After Sunrise, A met with B at a crossing point.**

**B's Shadow was exactly to right of A.**

**If they were facing each other on which direction was A facing?**

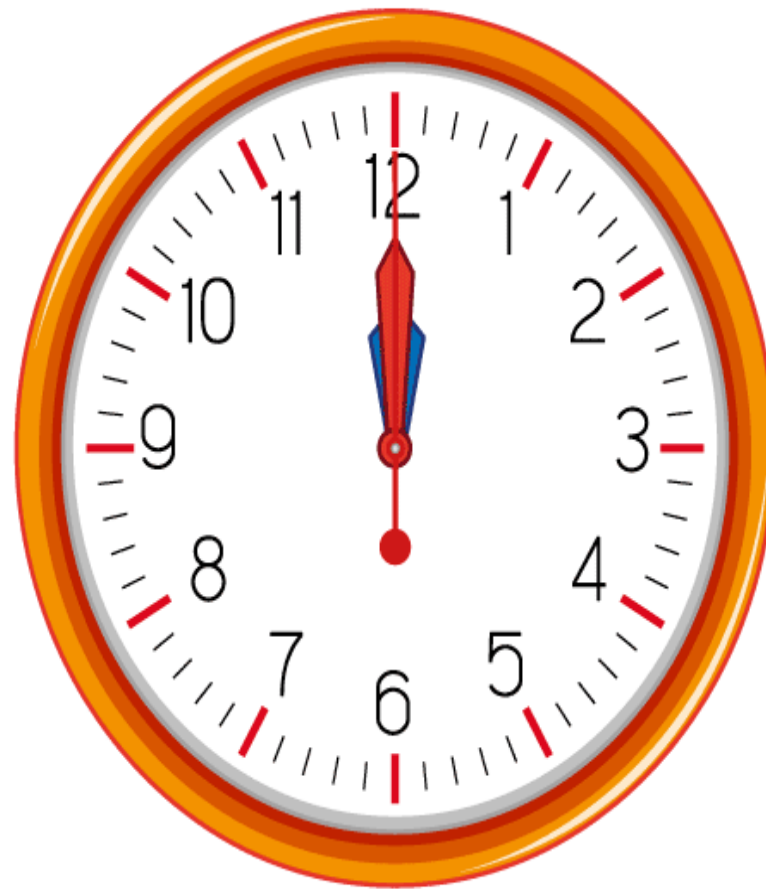
➡ Sun Always Rises in the East Direction.  
So Shadow falls towards West.

➡ B's shadow falls to the right of the A.  
Hence A is facing South.

**So, A is facing South**

clocks

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# clocks

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- A clock is so placed that at 2:00 p.m. the minute hand points towards North-west. In which direction does the hour hand point at 6:00 p.m.?
- A. North-West
- B. West
- C. North-East
- D. South-East

THANK YOU

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IYAPPAN M