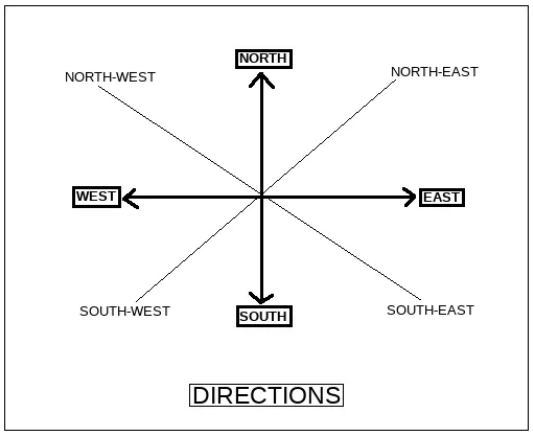
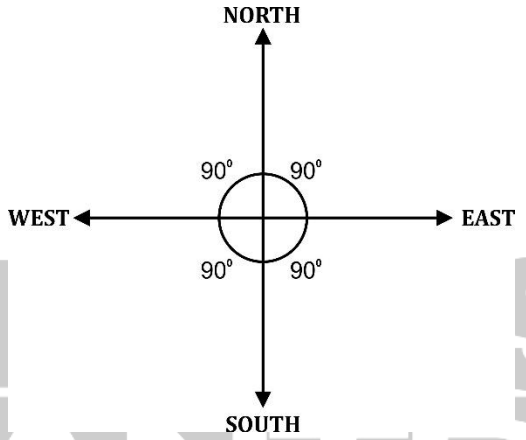
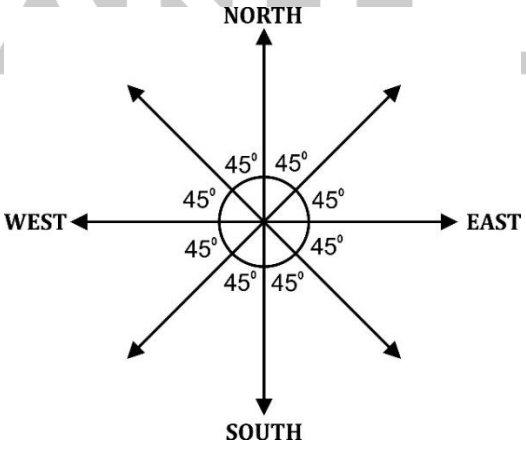


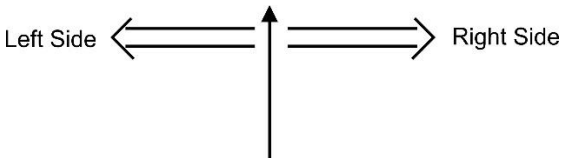
Angles between Directions



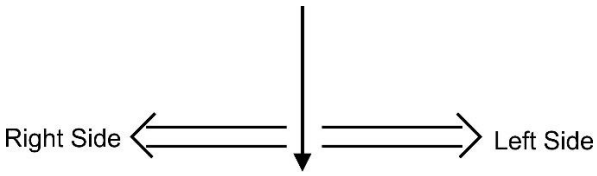


When a person turn 180 in angle, lie will face opposite side to the initial side from which he took turn.
E.g.: If a Face north, turn 180° to the Right then he will reach south after turning

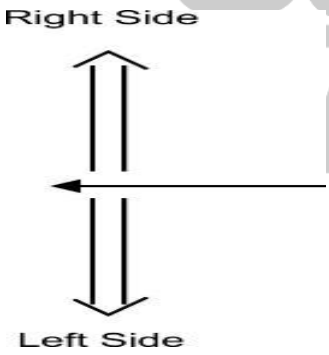
- Clockwise: Turning in the direction of clock Rotation
- Anticlockwise: Turning opposite to the direction of clock relation.
  1. When a person Facing North



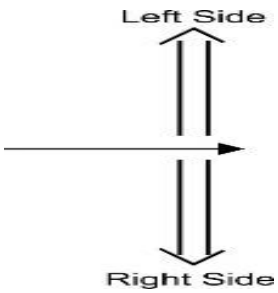
2. When a person facing SOUTH



3. When a person facing West

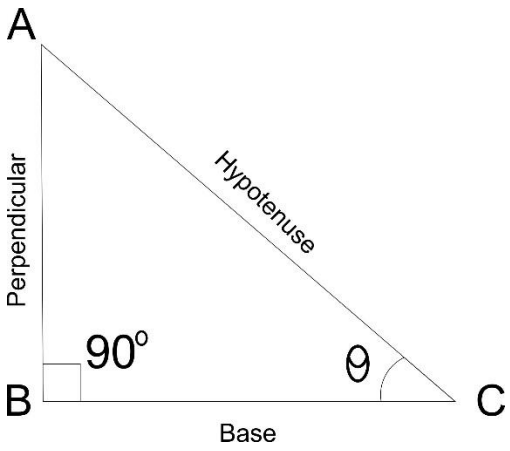


4. When a person facing east



Pythagoras Theorem (Used in Direction question)

#Right Angled Δ ABC



$AC^2 = AB^2 + BC^2$
In Δ ABC, ∠C is given θ

Then

- Side opposite to given angle (θ present case) will be perpendicular
- Side opposite to Right Angle [Angle = 90°] will be hypotenuse
- Remaining side of Right AngleΔ, will be base.

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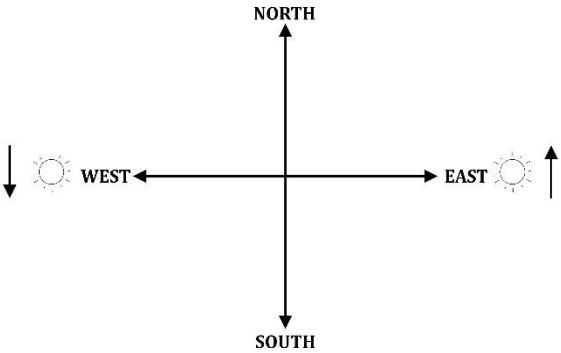


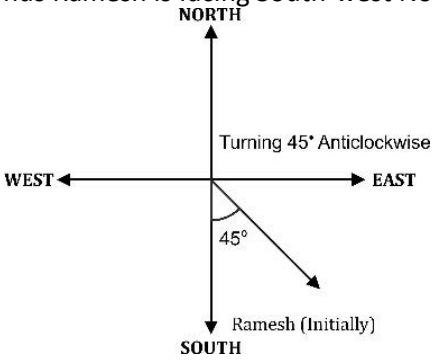
- Since sun Rises in the East
  ∴ During Sunrise (i.e., in Morning) → shadow is on west direction
- Since sun sets in the west
  ∴ During Sunset (i.e., in Evening) → shadow in on East direction
- At 12:00 Noon (sun is top of our head i.e., on North)
  ∴ there will be no shadow at 12 noon. Became shadow is hide below our feet.

Q.1. Ramesh is facing south and turn 45° anticlockwise he turns 180° in anticlockwise direction. Now he turns 270° clockwise which direction facing now?

a) East b) West c) North-east d) South-west

Option (d) Thus Ramesh is facing South-west Now.

I.



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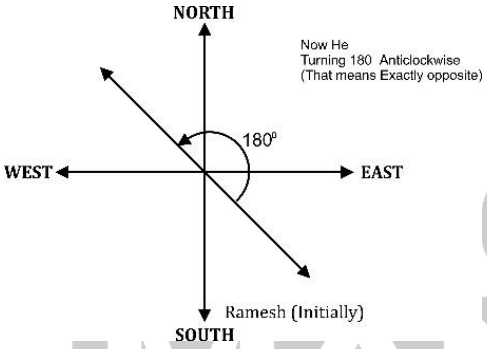
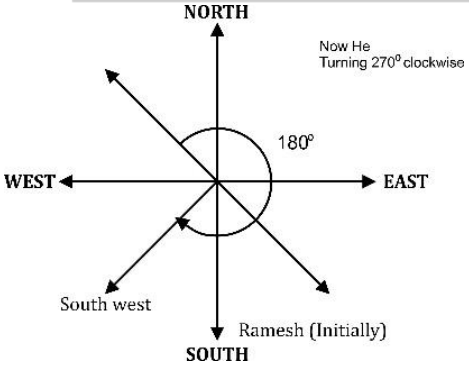


III.



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