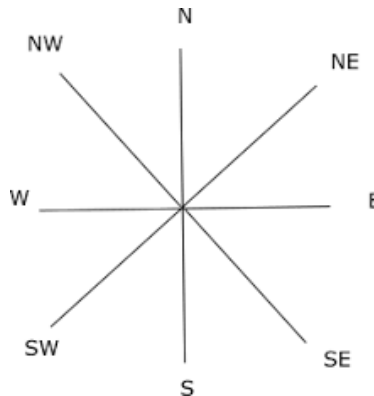


LOGICAL REASONING
DIRECTION SENSE – 1

(Answers on page 2 & 3)

- 1) Gayathri is facing the sunset. From there, she turns to face the opposite direction and another left turn, followed by a 270 degree turn in clock wise direction. Which direction is she facing now?
a) Northeast b) Southwest c) West d) Northwest
- 2) Tripathi leaves for office and he walks 30m towards East, then he turns towards South and walks 20m. He further walks 45 m towards the West and 15m towards the North. Then he turns towards East and walks another 27m. What is the straight distance in meters between his initial and final position?
a) 10 b) 13 c) 17 d) None of these
- 3) One evening before sunset Rupesh and Veena were talking to each other face to face in a park. If Veena's shadow was exactly to the left of Rupesh, which direction was Rupesh facing?
a) South b) East c) North d) West
- 4) Pooja started driving from her college, 8km towards North then 11km towards her right, then another 5km towards her left. Approximately, how far is she from her college and in which direction?
a) 17km North b) 16km Southeast c) 17km Northeast d) 16km North
- 5) Aruna is 35m South-West of Leena. If Raymond is 35m South-East of Leena, then Raymond is in which direction of Aruna?
a) Northwest b) West c) Southeast d) East
- 6) After walking 6 km, I turned to the right and walked 2 km. Then I turned to the left and walked 3 km, followed by another left turn and a 2 km walk after the turn. Finally, I have taken another right turn and walked 9km. In the end, I was moving towards the North. From which direction I was facing when I started my journey?
a) South b) North c) West d) Data Inadequ...
- 7) Lima and Harun started moving towards each other from two points 200m apart. After walking 40m, Harun turned left and goes 30m, then he turned right and walked 60m. He further turned right and came back to the road on which he started walking. If Lima walked on straight road with the same speed as Harun, then what would be the distance between them now?
a) 20m b) 60m c) 40m d) 10m
- 8) Britney started walking to east from her house, after walking 5km she turned to her left and walked another 6km. Then she turned to her left again and walked 8km. Finally, she turned south and walked 10km to reach her summer cottage in woods. How far is she from her home?
a) 30km b) 15km c) 5km d) 14km
- 9) Krishnaveni noticed her shadow just in front her immediately after sunrise. From there, she turned to her right first and turned around to face the exact opposite direction. Then she turned 30 degrees in anticlockwise direction. Which direction is she facing now?
a) Northeast b) Northeast c) Southwest d) None of these
- 10) Walton rode his bicycle towards South and took a left turn to ride 4 km. Again, he turned left and rode 10 km. Then he turned left again and rode another 4 km and found himself 2 km west of his starting point. How far did he ride east initially?
a) 8 km b) 4 km c) 12 km d) 7 km

Standard assumptions used in cracking Direction Sense questions.



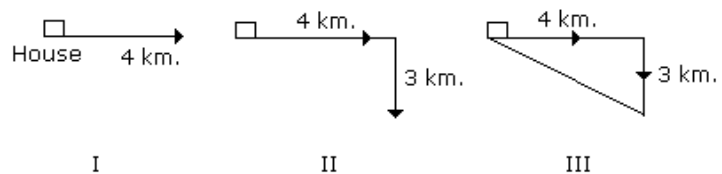
Notes:

- a) Absolute Southeast, Southwest, Northeast and Northwest are marked in the picture, however, any point between South and East considered as Southeast.
- b) A person faces rising sun has his shadow behind him (Westwards).
- c) A person faces setting sun has his shadow behind him (Eastwards).
- d) A person faces West in the morning has his shadow just in front of him.
- e) A person faces East in the evening has his shadow in front of him.
- f) A person faces North during evening time has his shadow on the right.
- g) A person faces South during evening time has his shadow on the left.
- h) A person faces North at sunrise has his shadow on the left.
- i) A person faces South at sunrise has his shadow on the right.

Distance related calculations in direction sense are mostly based on right angle triangle theory.

Example: Chithra drove 4 km to the East, then she turns to South and drove for another 3 km in order to reach the gymnasium from her home. What is the straight line distance between her home and gymnasium?

Answer: 5 km



$$\begin{aligned}\text{Minimum distance} &= \sqrt{(4)^2 + (3)^2} \\ &= \sqrt{16 + 9} \\ &= \sqrt{25} \\ &= 5 \text{ km.}\end{aligned}$$

(Courtesy to Indiabix for diagram)

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Answer Key:

- 1) c (West)
- 2) b (13)
- 3) a (South)
- 4) c (17km Northeast)
- 5) d (East)
- 6) a (South)
- 7) b (60m)
- 8) c (5km)
- 9) d (None of these)
- 10) a (8km)

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