The Walnut

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Organisation for Advanced Training   *Webpage*: www.walnuttraining.org
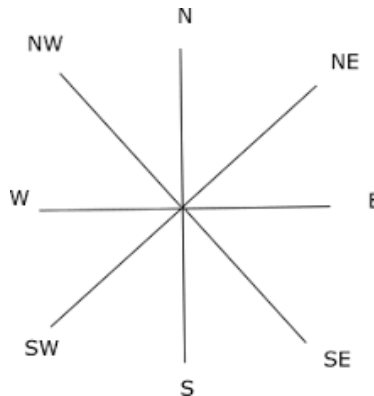
DIRECTION SENSE – 1   *(Answers on page 2 & 3)*

1) Sunayna is doing yoga facing the rising sun. From there, she turns to face the opposite direction, then a left turn from there, followed by a right turn and then 45 degree turn in clock wise direction. Which direction is she facing now?
 a) Northeast   b) Southwest   c) West   d) Northwest

2) Lajpath leaves for office, he walks 30m towards East, then he turns towards South and walks 20 m. Then he walks 45 m towards the West and further 15 m towards North. Then he turns towards East and walks 27 m. What is the straight distance in meters between his initial and final position?
 a) 10m   b) 17m   c) 13m   d) None of these

3) One evening just before sunset Jerald and Veena were talking to each other face to face in a park. If Veena's shadow was exactly to the left of Jerald, which direction was Jerald facing?
 a) East   b) South   c) North   d) West

4) Rinku started walking from her dance school, 6km towards North then 5km towards her right, then another 7km towards her left. Approximately, how far is she from her school and in which direction?
 a) 14km Northeast   b) 16km South   c) 14km North   d) 15km Northwest

5) Akhila is 32 m South-West of Lima. If Raymond is 32 m South-East of Lima, then Raymond is in which direction of Akhila?
 a) North   b) West   c) East   d) South-East

6) One morning Karun started to walk. During his walk he met Akbar who was coming from opposite direction. Karun watch that the shadow of Akbar to the left of him (Karun). To Which direction Karun was facing?
 a) South   b) North   c) West   d) Data inadequate

7) Pavana started walking to west from her house, after walking 4km she turned to her left and walked another 6km. Then she turned to her left again and walked 10km. Finally, she turned south and walked 12km to reach her summer cottage in woods. How far is she from her home?
 a) 30 km   b) 15 km   c) 19 km   d) Cannot be deter…

8) Ben set his timepiece on a bed side table, the timepiece somehow overturned and at 5am the hour hand was pointing towards Northeast and minute hand towards West. If Ben wakes up at 7.30am, where exactly would be the minute hand points at that time?
 a) East   b) Southwest   c) South   d) Northeast

9) Upesh rode his bicycle towards East, then turned to his left and rode 3 km and once again turned left and rode 12 km. Then he turned left again and rode another 3 km, found himself 4km east of his starting point. How far did he ride towards east initially?
 a) 6 km   b) 14 Km   c) 16 km   d) 8 km

10) Praveen and Tipsy start moving towards each other from two places 300m apart. After walking 60m, Tipsy turns left and goes 20m, and then she turns right and walks 40m. She then turns to her right again and came back to the road on which she started walking. If Praveen and Tipsy walk with the same speed, what is the distance between them now?
 a) 40 m   b) 30 m   c) 60 m   d) None of these

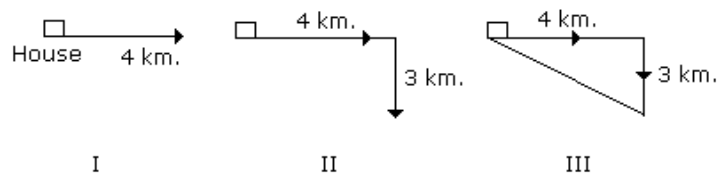**Standard directions used in cracking Direction Sense questions.**

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

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

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

$$= \sqrt{25}$$

$$= 5 \text{ km.}$$

(Courtesy to Indiabix for diagram)

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Answer Key:

1) d (Northwest)

2) c (13m)

3) a (South)

4) a (14 km Northeast)

5) c (East)

6) b (North)

7) c (19 km)

8) a (East)

9) c (16 km)

10) c (60m)