

DIRECTION & DISTANCE SENSE TEST BASED VERBAL REASONING PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

For All Competitive SSC, Bank, IBPS, UPSC, Railway, IT & Other Govt. Exams

Created By [Careericons](#) Team

Q1. Rohit walked 30 metres towards South, took a left turn and walked 50 metres, again he took a left and walked 30 metres. How far is he and in which direction from the starting point?

- a) 50m east
 - b) 130m east
 - c) 80m south
 - d) 50m west
 - e) None of these
-

Q2. Riya goes 30 km towards North from a fixed point, then after turning to her right she goes 15 km. After this she goes 30 km after turning to her right. How far and in what direction is she from her starting point?

- a) 25m east
 - b) 20m east
 - c) 10m east
 - d) 15m east
 - e) None of these
-

Q3. Five boys are standing in a row facing East. Deepak is to the left of Sameer, Tushar and Shailendra. Sameer, Tushar and Shailendra are to the left of Sushil. Shailendra is between Sameer and Tushar. If Tushar is fourth from the left, how far is Sameer from the right ?

- a) Second
- b) First

- c) Fourth
- d) Third
- e) Fifth

Q4. The town of Paranda is located on Green Lake. The town of Akram is west of Paranda. Tokhada is east of Akram but west of Paranda. Kakran is east of Bopri but west of Tokhada and Akram. If they are all in the same district, which town is the farthest west ?

- a) Kakran
- b) Paranda
- c) Bopri
- d) Akram

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Q5. B is 15 km east of point A. Point C is 15 km south of B and 7 km east of D is point C. 20 km north of point D is point E, and 13 Km east of point G is point E. What is shortest distance between A and G, and also point G is which direction respect of point A?

- a) 5 km, south-east
- b) 4 km, south-west
- c) 2 km, north-east
- d) 5 km, north-west
- e) None of these

DIRECTIONS:

A country has the following types of traffic signals.

- i. 3 red lights = stop;
- ii. 2 red lights = turn left;
- iii. 3 green lights = go at 100 kmph speed;
- iv. 1 red light = turn right;
- v. 1 green light = go at 20 kmph speed
- vi. 2 green lights = go at 40 kmph speed

A motorist starts at a point on a road and follows all traffic signals literally. His car is heading towards the north. He encounters the following signals (the time mentioned in each case below is applicable after crossing the previous signal).

- a. Starting Point – 1 green light;
- b. After half an hour, 1st signal – 2 red & 2 green lights;
- c. After 15 minutes, 2nd signal – 1 red light;
- d. After half an hour, 3rd signal – 1 red & 3 green lights;
- e. After 24 minutes, 4th signal – 2 red & 2 green lights;
- f. After 15 minutes, 5th signal – 3 red lights

Q6. After the starting point if the 1st signal were 1 red and 2 green lights, what would be the final position of the motorist

- a) Directly 30 km. to the east.
- b) 30 km. to the west and 20 km. to the south.
- c) 50 km. to the east and 40 km. to the north.
- d) 30 km. to the west and 40 km. to the north.

Q7. What is the position radial distance of the motorist when he reaches the last signal:

- a) 45 km. away to the northwest of the Starting Point.
- b) 45 km. directly north of Starting Point.
- c) 50 km. away to the northeast of the Starting Point.
- d) 30 km. directly to the east of the Starting Point.

Q8. If at the starting point, the car was heading towards south, what would be the final position motorist:

- a) 50 km. to the west and 20 km. to the north.
- b) 30 km. to the east and 40 km. to the south.

- c) 30 km. to the west and 40 km. to the south.
 - d) 50 km. to the east and 40 km. to the south.
-

Q9. The total distance traveled by the motorist from the starting point till the last signal is:

- a) None of these.
 - b) 90 km.
 - c) 120 km.
 - d) 100 km.
-

DIRECTIONS:

Read the given information carefully and answer below Question.-

1. There are 5 friends A, B, C, D and E standing randomly.
2. B is to the northeast of E.
3. D is 2km to the east of E, who is 6km to the west of A.
4. C is to the northwest of D and in the line of EB.
5. D is 4km the south of B.

Q10. In which direction is C with respect to A ?

- a) Northwest
 - b) Northeast
 - c) South west
 - d) South east
 - e) None of these
-

Q11. In which direction is A with respect to B ?

- a) Northeast
- b) Northwest
- c) Southeast

- d) Southwest
 - e) None of these
-

Q12. What is the distance between D and A ?

- a) 3km
- b) 6km
- c) 5km
- d) 4km
- e) None of these

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Q13. What is the shortest distance between B and A?

- a) 3.5km
 - b) 6.2km
 - c) 5.7km
 - d) 4.2km
 - e) None of these
-

Q14. What is the shortest distance between B and E?

- a) 2.5km
 - b) 7.2km
 - c) 2.7km
 - d) 5.2km
 - e) None of these
-

DIRECTIONS:

Each Question is based on information given below: -

1. Point 'D' is in west direction from 'A' at the distance of 14m.
2. Point 'B' is in south direction from 'D' also a distance of 4m.
3. Point 'F' is situated 9 m. in south from 'D'.
4. Point E is situated 7m in east from 'B'.
5. Point 'C' is in north from 'E' at the distance of 4m.
6. Point 'G' is in south from 'A' at the distance of 4 m.

Q15. Any person from point 'F' starts walking towards north at the distance of 5 m then turns his rightwards then to whom he will reach first out of the following?

- a) E
- b) G
- c) A
- d) D

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Answers to the above questions :

Q1. Answer: (a)

Q2. Answer: (d)

Q3. Answer: (c)

Deepak (D) is to the left of Sameer (S), Tushar (T) and Shailendra (Sh) means D, S, T, Sh.
Sameer, Tushar and Shailendra are to the left of Sushil (Su) means S, T, Sh, Su. Shailendra is between Sameer and Tushar means S, Sh, T.

Tushar is fourth from the left means ••• T. Combining all the arrangements, we have D, S, Sh, T, Su. So, Sameer is fourth from the right.

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Q4. Answer: (c)

The town of Akram (A) is west of Paranda (P) means A, P. Tokhada (T) is east of Akram but west of Paranda means A, T, P.

Kakran (K) is east of Bopri (B) but west of Tokhada and Akram means B, K, A, T.

Combining all the arrangements, we get the sequence as B, K, A, T, P.

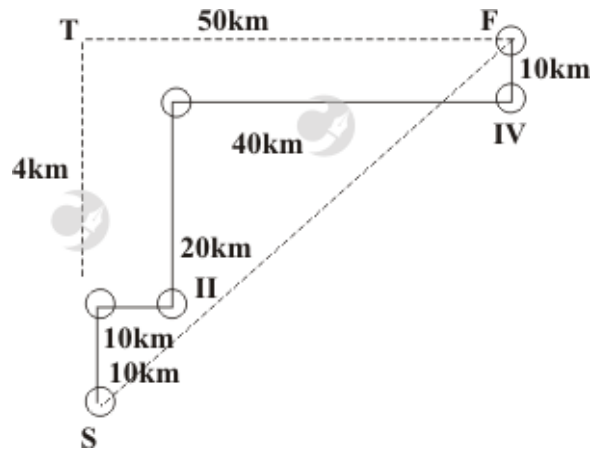
So, farthest west is Bopri

Q5. Answer: (d)

$$AG = \sqrt{5^2 + 5^2} = \sqrt{50} = 5\sqrt{2} \text{ km}$$

Q6. Answer: (c)

For the case when 1st signal were 1 red and 2 green light, the surface diagram will be as given below.

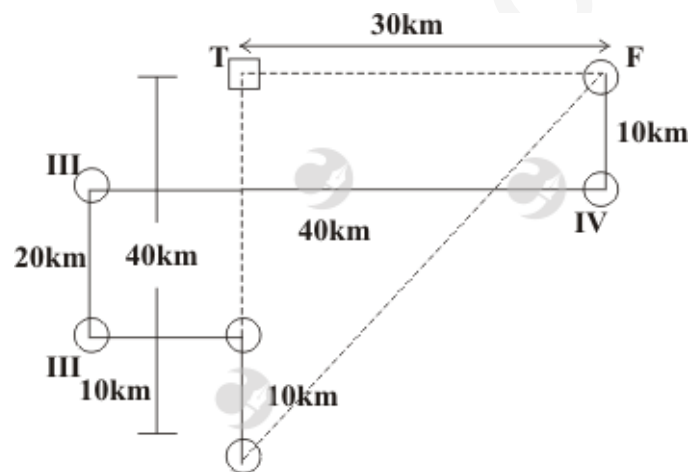


TF = 50 km;

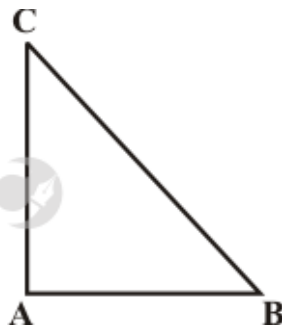
ST = 40 km

Considering the above figure, option c is correct, 50 km to the east and 40 km to the north.

Q7. Answer: (c)



Note: According to Pythagoras' theorem, for a rightangled triangle.



$$BC^2 = AB^2 + AC^2$$

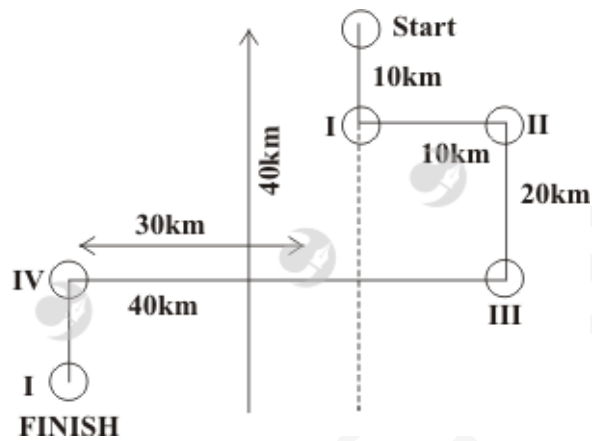
$$BC = \sqrt{AB^2 + AC^2}$$

$$\sqrt{ST^2 = TF^2}$$

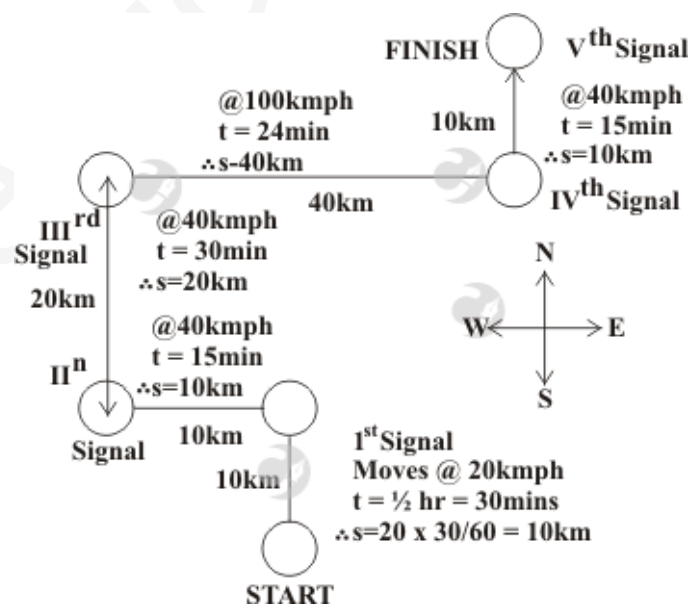
$$= \sqrt{40^2 + 30^2} = \sqrt{2500}$$

$$= 50\text{km}$$

Q8. Answer: (c)



Q9. Answer: (b)



Note:

$s = \text{Distance covered}; v = \text{Velocity (km/hr)} t = \text{Time taken}; s = v \times t$

The total distance travelled by the motorist from the starting point till last signal is

$$10 + 10 + 20 + 40 + 10 = 90 \text{ km.}$$

Q10. Answer: (a)

Q11. Answer: (c)

Q12. Answer: (d)

Q13. Answer: (d)

$$X^2 = 4^2 + 4^2$$

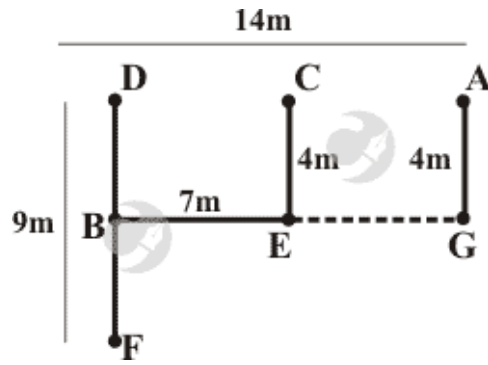
$$X = 4\sqrt{2}$$

Q14. Answer: (a)

$$X^2 = 4^2 + 2^2$$

$$X = 2\sqrt{5}$$

Q15. Answer: (a)



Surely, he will reach at point 'E' first.

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