

REASONING

Direction and Distance Worksheet

For students preparing for MAH-B.BCA/BBA/BMS/BBM CET 2024 for admission to BCA, BBA, BMS, BBM

1. Rohit walked 25 m towards south. Then he turned to his left and walked 20 m. He then turned to his left and walked 25 m. He again turned to his right and walked 15 m. At what distance is he from the starting point and in which direction?

- A. 35 m East
- B. 35 m North
- C. 30 m West
- D. 45 m East

2. Sachin walks 20 km towards North. He turns left and walks 40 km. He again turns left and walks 20 km. Finally he moves 20 km after turning to the left. How far is he from his starting position?

- A. 20 km.
- B. 30 km.
- C. 50 km.
- D. 60 km.

3. From his house, Lokesh went 15 km to the North. Then he turned west and covered 10 km. Then he turned south and covered 5 km. Finally turning to the east, he covered 10 km. In which direction is he from his house?

- A. East
- B. West
- C. North
- D. South

Directions (4-6) : Each of the following questions is based on the following information:

1. 8-trees → mango, guava, papaya, pomegranate, lemon, banana, raspberry

and apple are in two rows 4 in each facing North and South.

- 2. Lemon is between mango and apple but just opposite to guava.
- 3. Banana is at one end of a line and is just next in the right of guava or either banana tree is just after guava tree.
- 4. Raspberry tree which at one end of a line, is just diagonally opposite to mango tree.

4. Which of the following statements is definitely true?

- A. Papaya tree is just near to apple tree.
- B. Apple tree is just next to lemon tree.
- C. Raspberry tree is either left to Pomegranate or after.
- D. Pomegranate tree is diagonally opposite to banana tree.

5. Which tree is just opposite to raspberry tree?

- A. Papaya
- B. Pomegranate
- C. Papaya or Pomegranate
- D. Data is inadequate

6. Which tree is just opposite to banana tree?

- A. Mango
- B. Pomegranate
- C. Papaya
- D. Data is inadequate

7. Sunita rode her scooty northwards, then turned left and then again rode to her left 4km. She found herself exactly 2 kms west of her

starting point. How far did she ride northwards initially?

- A. 2 km
- B. 4 km
- C. 5 km
- D. 6 km

8. Lokesh's school bus is facing North when it reaches his school. After starting from Lokesh's house it turns right twice and then left before reaching the school. What direction was the bus facing when it left the bus stop front of Lokesh's house?

- A. North
- B. East
- C. South
- D. West

Directions (9-11) : Read the following information carefully and answer the questions given below:

Point B is in 12m north of point A. Point B is 10m in west of point C. Point C is 20m north of point D. Point D is 15m east of Point E. Point F is 10m north of point E. Point G is 5m east of point F.

9. If a person starts walking from point G, then at which point he will reach first?

- A. E
- B. A
- C. F
- D. B

10. If Point U is 8m south of point A then what will

be the distance between point U and E?

- A. 9m
- B. 5m
- C. 4m
- D. 6m

11. Point C is in which direction from point E?

- A. South
- B. South-east
- C. North
- D. North-east

12. From his house, Lokesh went 15 km to the North. Then he turned west and covered 10 km. Then he turned south and covered 5 km. Finally

turning to the east, he covered 10 km. In which direction is he from his house?

- A. East
- B. West
- C. North
- D. South

13. Village Q is to the North of the village P. The village R is in the East of Village Q. The village S is to the left of the village P. In which direction is the village S with respect to village R?

- A. West
- B. South-West
- C. South
- D. North-West

14. Radha moves towards South-East a distance of 7 km, then she moves towards West and travels a distance of 14 km. From here she moves towards North-West a distance of 7 km and finally she moves a distance of 4 km towards east. How far is she now from the starting point?

- A. 3 km
- B. 4 km
- C. 10 km
- D. 11 km

15. Sundar runs 20 m towards East and turns to right and runs 10 m. Then he turns to the right and runs 9 m. Again he turns to right and runs 5 m. After this he turns to left and runs 12 m and finally he turns to right and 6 m. Now to which direction is Sundar facing?

- A. East
- B. West
- C. North
- D. South

16. Vijay travelled 12 km Southward, then turned right and travelled 10 km, then turned right and travelled 12 km. How far was Vijay from the starting point?

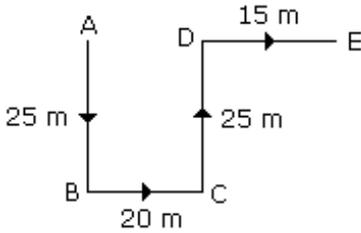
- A. 22 km
- B. 44 km
- C. 12 km
- D. 10 km

Answer Key

1. A	2. A	3. C	4. B	5. C	6. A	7. B	8. D	9. B	10. B
11. D	12. C	13. B	14. C	15. C	16. D				

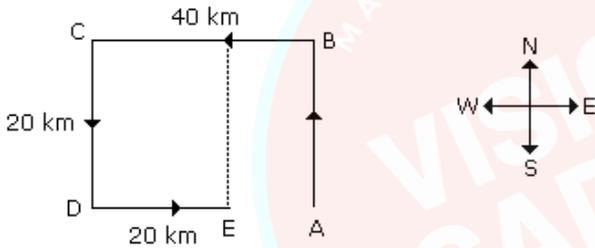
HINTS & SOLUTIONS

1.

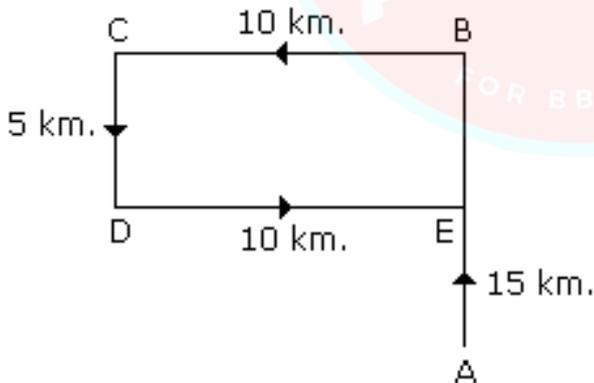


Required distance = AE
 = 20 + 15
 = 35 m towards east.

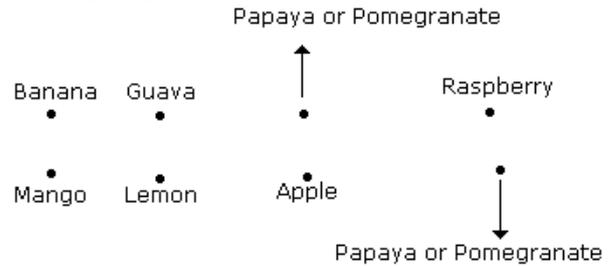
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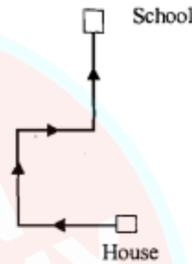
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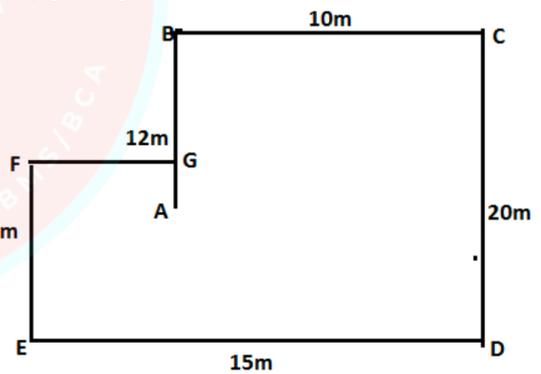
For Q.(4-6)



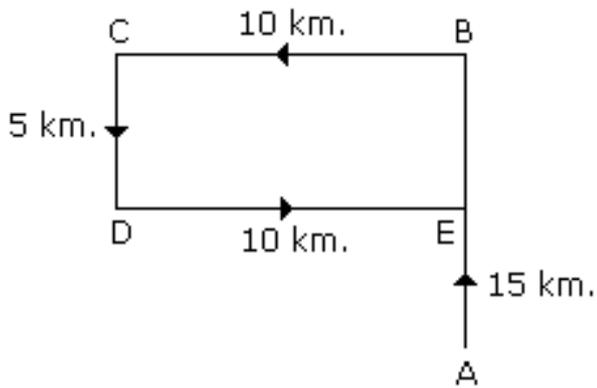
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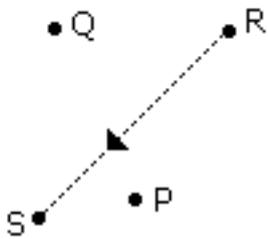
For Q.(9-11)



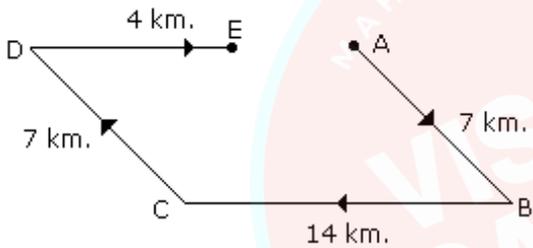
12.



13.



14.



Required distance = AE
= 14 - 4
= 10 km.

15.

