



Directions and Distances questions for ssc-cpo pdf

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Instructions

For the following questions answer them individually

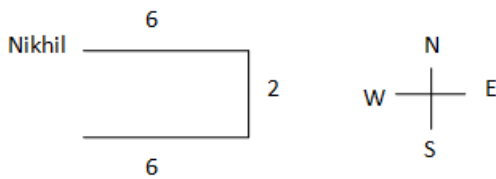
Question 1

Nikhil was facing East. He walked 6 km forward and then after turning to his right walked 2 km. Again he turned to his right and walked 6 km. After this, he turned back. Which direction he was facing at that time ?

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

Answer: A

Explanation:



Nikhil faces East finally after turning back.

Hence, option A is the correct answer.

Question 2

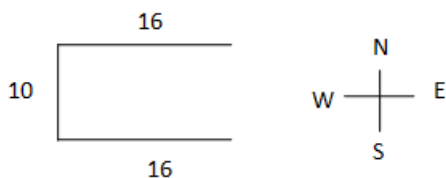
Gokul travelled 16 kms west ward, then he turned left and travelled 10 kms. Then he turned left and travelled 16 kms. How far was Gokul from the starting point ?

- A 16 kms
- B 26 kms
- C 10 kms
- D 6 kms

Answer: C

Explanation:

From the given information,



Gokul was 10 kms far from his starting point.

Hence, option C is the correct answer.

Question 3

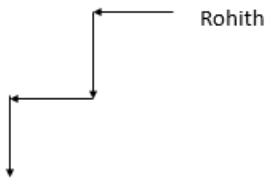
At dusk, Rohit started walking facing the west, After a while, he met his friend and both turned to their left. They halted for a while and started moving by turning again to their right. Finally Rohit waved 'good bye' to his friend and took a left turn at a corner. At which direction is Rohit moving now ?

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

Answer: A

Explanation:

As per the given question,



Finally, Rohit is facing South.

Hence, option A is the correct answer.

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Question 4

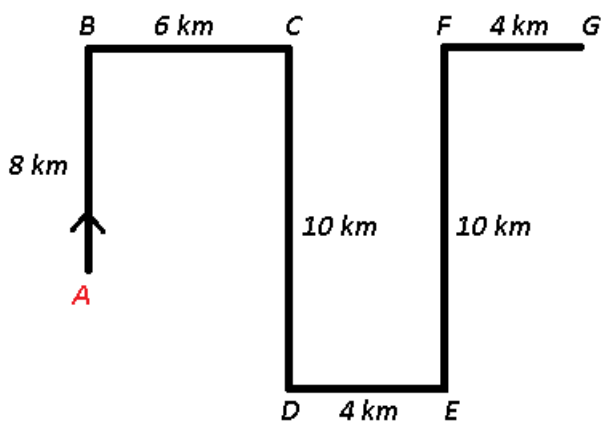
Raghu starts from his house in his car and travels 8 km towards the North, then 6 km towards East, then 10 km towards his right, 4 km towards his left, 10 km toward north and finally 4 km towards his right. In which direction is he now with reference to the starting point ?

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

Answer: D

Explanation:

Raghu starts from his house in his car at A and travels 8 km towards the North to B, then 6 km towards East to reach C, then 10 km towards his right towards south, 4 km towards his left in the east direction, 10 km toward north to reach F and finally 4 km towards his right to stop at point G.



∴ He is now in **North-East** direction with reference to the starting point.

=> Ans - (D)

Question 5

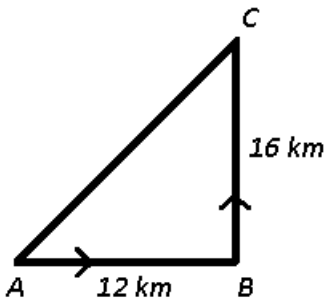
Abhinav started running from his house, he first ran for 12 km towards east, then he turned towards north and ran 16 km in that direction. How far Abhinav is from his house and in which direction?

- A 13 km South
- B 13 km North
- C 15 km West
- D 20 km North-East

Answer: D

Explanation:

Let Abhinav started from A and ran for 12 km towards east, then he turned towards north and ran 16 km in that direction to reach C.



$$\Rightarrow (AC)^2 = (AB)^2 + (BC)^2$$

$$\Rightarrow (AC)^2 = (12)^2 + (16)^2$$

$$\Rightarrow (AC)^2 = 144 + 256 = 400$$

$$\Rightarrow AC = \sqrt{400} = 20 \text{ km}$$

∴ Abhinav is **20 km** from his house and in **north-east** direction.

=> Ans - (D)

Question 6

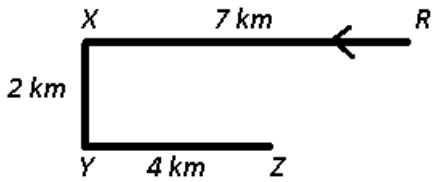
Vikram started from point R and walked straight 7 km west, then turned left and walked 2 km and again turned left and walked straight 4 km. In which direction is he from R?

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

Answer: B

Explanation:

Vikram started from point R and walked straight 7 km west to X, then turned left and walked 2 km towards south and again turned left and walked straight 4 km towards east to reach point Z.



∴ He is in **south-west** direction from R.

=> Ans - (B)

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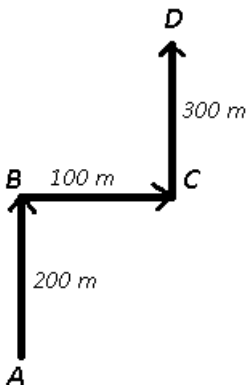
Question 7

After walking 200 meters, I turned right and covered a distance of 100 mtrs, then turned left and covered a distance of 300 mtrs. In the end I am facing towards North. From which direction did I start my journey ?

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

Answer: C

Explanation:



Let I start from point A and head north for 200 m, then turned right towards east and reached C after walking 100 m. Finally turned left towards north and stopped at point D after walking 300 m.

Thus, I started my journey in **North** direction.

=> Ans - (C)

Question 8

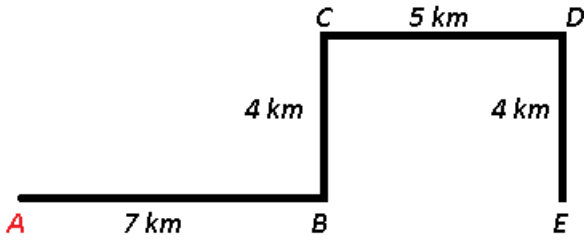
Suresh walked 7 km east and turned to his left walked 4 kms. He then turned to his right and walked 5 kms. Finally, he again turned to his right and walked 4 kms. In which direction is he now, from his starting point ?

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

Answer: A

Explanation:

Let Suresh started from point A and walked 7 km east and turned to his left walked 4 kms to reach C. He then turned to his right and walked 5 kms to point D. Finally, he again turned to his right and walked 4 kms towards south to reach point E.



∴ He is 12 km **east** from his starting point.

=> Ans - (A)

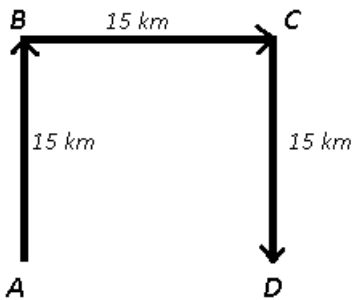
Question 9

Suman walks 15 km towards north. She turns right and walks another 15 km. She turns right and walks another 15 km. In which direction is she from her starting point?

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

Answer: C

Explanation:



Let Suman starts from point A and walks 15 km towards north to reach B. She then turns right and walks another 15 km to reach C. From there, she turns right again and walks another 15 km southwards to finally reach D.

∴ She is 15 km to the east of her starting point.

=> Ans - (C)

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Question 10

Abhay and Chintan are riding their motorcycles. They start from the same point. Abhay rides 7 km North, then turns to his left and rides 4 km. In the meanwhile Chintan rides 6 km West, then turns North and rides 7 km, then turns to his left and rides 8 km. Where is Abhay with respect to Chintan?

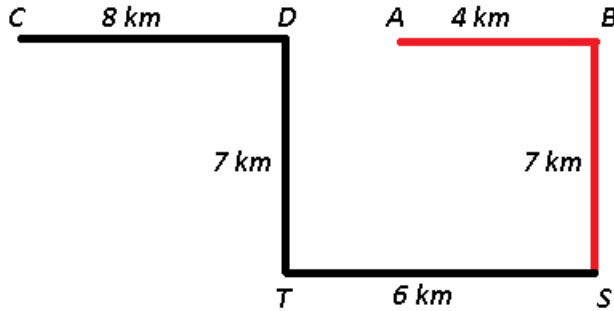
- A 4 km East

- B 10 km West
- C 4 km West
- D 10 km East

Answer: D

Explanation:

Let them start from the same point S. Abhay (red) rides 7 km North, then turns to his left and rides 4 km to finally stop at A. In the meanwhile Chintan (black) rides 6 km West to T, then turns North and rides 7 km, then turns to his left and rides 8 km westwards to stop at C.



$\Rightarrow AC = (6 - 4) + 8 = 10 \text{ km}$

\therefore Abhay is **10 km east** with respect to Chintan.

\Rightarrow Ans - (D)

Question 11

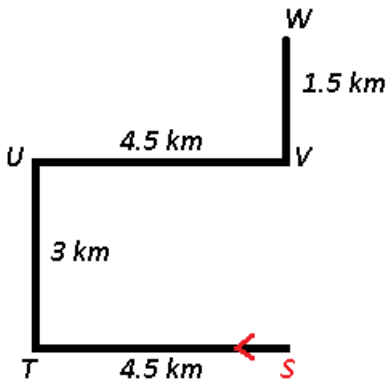
The fitness club has organised a race. The route goes 4.5 km West from the starting point. It then turns North and goes 3 kms, then turns East and goes 4.5 km, finally it turns left and goes 1.5 km to reach the end point. Where is the end point with respect to the start point?

- A 4.5 km North
- B 1.5 km South
- C 4.5 km South
- D 1.5 km North

Answer: A

Explanation:

The route goes 4.5 km West from the starting point S. It then turns North and goes 3 kms to U, then turns East and goes 4.5 km, finally it turns left and goes 1.5 km towards north to reach the end point W.



$\Rightarrow SW = 3 + 1.5 = 4.5 \text{ km}$

\therefore The end point is **4.5 km north** with respect to the start point.

=> Ans - (A)

Question 12

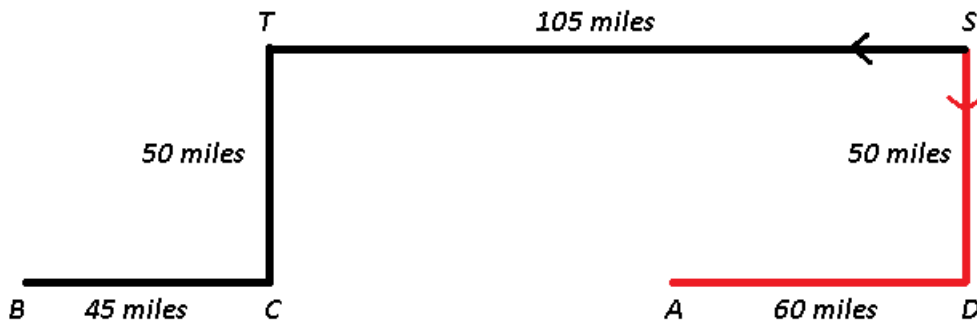
Two cruisers start from the same port. Cruiser A sails 50 miles South, then it turns right and sails 60 miles. In the meanwhile cruiser B sails 105 miles West, then it turns left and sails 50 miles, then it turns West and sails 45 miles. Where is cruiser A with respect to cruiser B?

- A 210 miles East
- B 90 miles East
- C 90 miles West
- D 210 miles West

Answer: B

Explanation:

Let the two cruisers start from the same port S. Cruiser A (red) sails 50 miles South to D, then it turns right and sails 60 miles towards west. In the meanwhile cruiser B (black) sails 105 miles West to reach T, then it turns left and sails downwards 50 miles, then it turns West and sails 45 miles to stop finally at B.



$$\Rightarrow AB = (105 - 60) + 45 = 90 \text{ miles}$$

\therefore Cruiser A is **90 miles east** with respect to cruiser B.

=> Ans - (B)

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Question 13

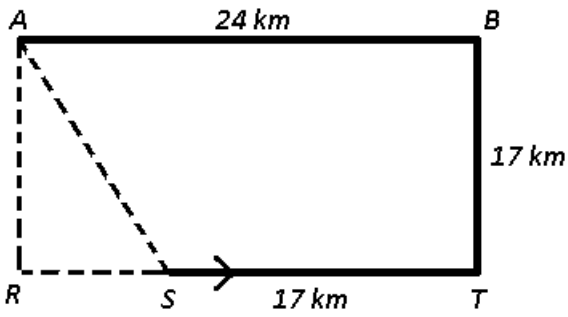
Ankit walks 17 km towards east. He turn left and walks 17 km. He turns left again and walks 24 km to reach point A. What is the straight line distance (in km) between the starting point and point A?

- A $13\sqrt{2}$
- B $14\sqrt{4}$
- C $4\sqrt{2}$
- D $11\sqrt{2}$

Answer: A

Explanation:

Let Ankit starts from point S walks 17 km towards east to reach T. He turn left and walks 17 km northwards to reach B. He turns left again and walks towards west 24 km to reach point A.



$$\Rightarrow (AS)^2 = (AR)^2 + (RS)^2$$

$$\Rightarrow (AS)^2 = (17)^2 + (7)^2$$

$$\Rightarrow (AS)^2 = 289 + 49 = 338$$

$$\Rightarrow AS = \sqrt{338} = 13\sqrt{2} \text{ km}$$

\therefore Distance between the starting point and point A = $13\sqrt{2}$ km

\Rightarrow Ans - (A)

Question 14

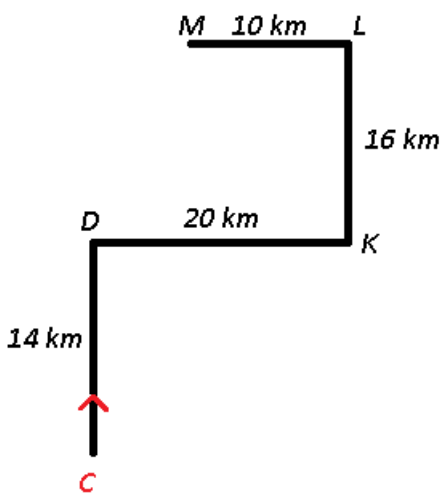
Ganga leaves from her college at 10:00 a.m. She starts walking towards north and covers a distance of 14 km. She turns right and walks 20 km to reach point K. She turns left and walk 16 km. She again turns left and walks 10 km. How far (in km) and in which direction is she now from point K?

- A $3\sqrt{33}$, North-West
- B $2\sqrt{89}$, North-West
- C $3\sqrt{33}$, North-East
- D $2\sqrt{89}$, North-East

Answer: B

Explanation:

Let Ganga leaves from her college at 10:00 a.m from point C. She starts walking towards north and covers a distance of 14 km to reach D. She turns right and walks 20 km to reach point K. She turns left and walk 16 km towards north. She again turns left and walks 10 km westwards to stop at point M.



$$\Rightarrow (KM)^2 = (KL)^2 + (LM)^2$$

$$\Rightarrow (KM)^2 = (10)^2 + (16)^2$$

$$\Rightarrow (KM)^2 = 100 + 256 = 356$$

$$\Rightarrow KM = \sqrt{356} = 2\sqrt{89} \text{ km}$$

∴ She is $2\sqrt{89}$ km **north-west** from point K.

=> Ans - (B)

Question 15

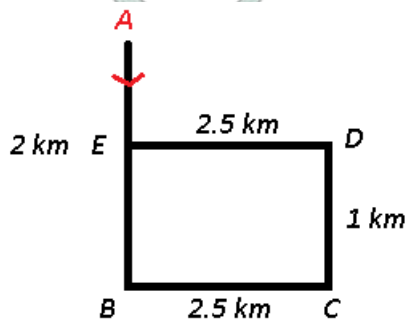
A street vendor pushes his cart 2 km South, then he turns East and walks 2.5 km, then he turns North and walks 1 km, then he turns to his left and walks 2.5 km. Where is he with respect to his starting point?

- A 3 km South
- B 1 km North
- C 3 km North
- D 1 km South

Answer: D

Explanation:

Let the street vendor pushes his cart from point A for 2 km South to reach B, then he turns East and walks 2.5 km to point C, then he turns North and walks 1 km to reach D, finally he turns to his left and walks 2.5 km towards west to reach E.



=> $AE = 2 - 1 = 1$ km

∴ He is **1 km south** with respect to his starting point.

=> Ans - (D)

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