Directions and Distances questions for SSC-CPO set-2 pdf

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Instructions
For the following questions answer them individually

Question 1

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

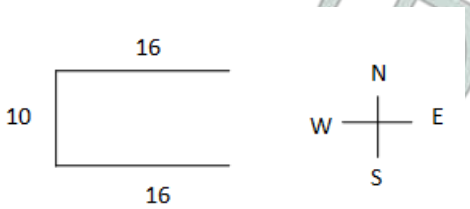
B 26 kms

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 2

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

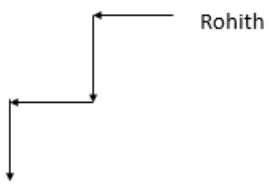
B West

C North

D East

Answer: A

Explanation:
As per the given question,



Finally, Rohit is facing South.

Hence, option A is the correct answer.

Question 3

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?

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A 13 km South

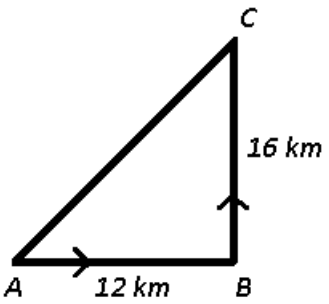
B 13 km North

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.



=> $(AC)^2 = (AB)^2 + (BC)^2$

=> $(AC)^2 = (12)^2 + (16)^2$

=> $(AC)^2 = 144 + 256 = 400$

=> $AC = \sqrt{400} = 20$ km

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

=> Ans - (D)

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Question 4

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:

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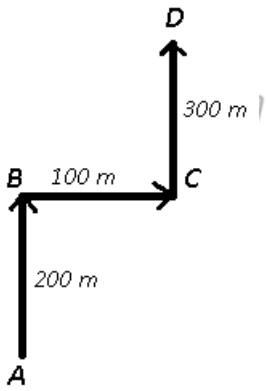


Let I start from point A and head north for 200 m, then turned right towards east and reached C after walking 100 m. Finally turned left towards north and stopped at point D after walking 300 m.

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

=> Ans - (C)

Question 5

Sunder travelled 5 km towards North, then turned towards East and travelled 6 km, then turned South and travelled 5 km. How far is he from the starting point ?

A 11 km

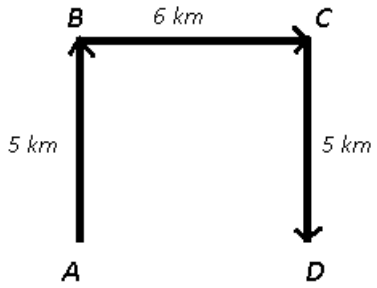
B 5 km

C 10 km

D 6 km

Answer: B

Explanation:



Let Sunder started from point A and head north for 5 km to reach B, then turn east and travelled for 6 km to reach C, and finally stopped at point D after walking 5 km towards south.

Thus, AD = **5 km**

=> Ans - (B)

Question 6

Rohini walks 10 km north and turns right. She walks 10 km and then turns left. She walks 10 km and then turns right and walks 10 km more. How far (in km) is she from her starting point?

A 20

B 10√2

C 20√2

D 40

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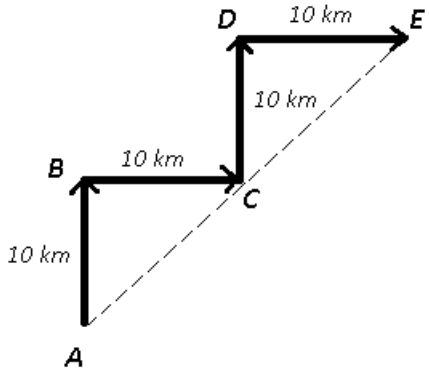
Answer: C

Explanation:



Let Rohini starts from point A and walks 10 km north to reach B and turns right and walks 10 km to reach C and then turns left to walk 10 km and finally turns right eastwards and walks 10 km more to stop at point E.

Thus, AE = $\sqrt{(20)^2 + (20)^2}$

= $\sqrt{400 + 400} = \sqrt{800} = 20\sqrt{2}$ km

=> Ans - (C)

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Question 7

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

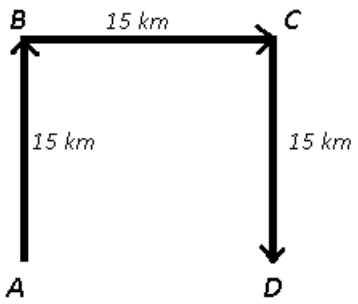
B South

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 8

P walks 15 km towards east. He turns right and walks 10 km. He turns right and walks 15 km. How far (in km) is he from his starting point?

A 5

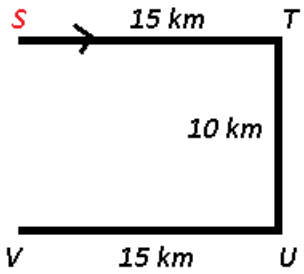
B 10

C 15

D 25

Answer: B

Explanation:
Let P starts from point S and walks 15 km towards east to reach T. He turns right and walks 10 km to point U. He again turns right and walks 15 km towards west to stop at point V.



∴ He is **10 km** south from his starting point.

=> Ans - (B)

Question 9

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

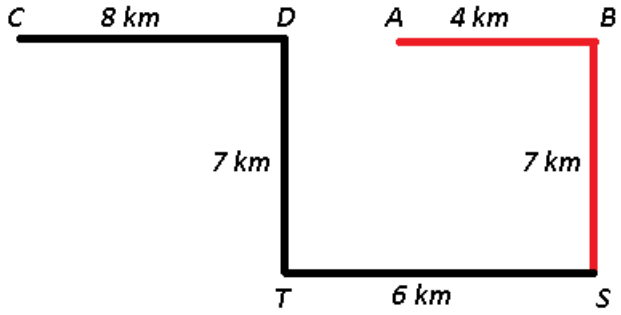
B 10 km West

C 4 km West

D 10 km East

Answer: D

Explanation:
Let they 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.



=> AC = $(6-4)+8=10$ km

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∴ Abhay is **10 km east** with respect to Chintan.

=> Ans - (D)

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Question 10

Akash leaves from his school at 5:30 a.m. He starts walking towards south and covers a distance of 20 km. He turns left and walks 15 km to reach point A. He turns right and walk 14 km. He again turns right and walks 10 km. How far (in km) and in which direction is he now from point A?

A 3√43, South-West

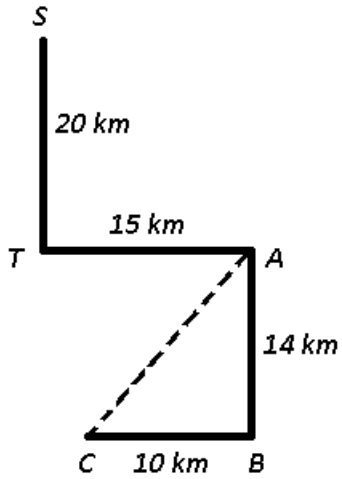
B 3√43, South-East

C 2√74, South-West

D 2√74, South-East

Answer: C

Explanation:
Let Akash starts walking from S towards south and covers a distance of 20 km to reach T. He turns left and walks 15 km to reach point A. He turns right and walk 14 km towards south to B. He again turns right and walks 10 km westwards to stop at C.



=> $(AC)^2 = (AB)^2 + (BC)^2$

=> $(AC)^2 = (14)^2 + (10)^2$

=> $(AC)^2 = 196 + 100 = 296$

=> $AC = \sqrt{296} = 2\sqrt{74}$ km

∴ He is $2\sqrt{74}$ km **south-west** from point.

=> Ans - (C)

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

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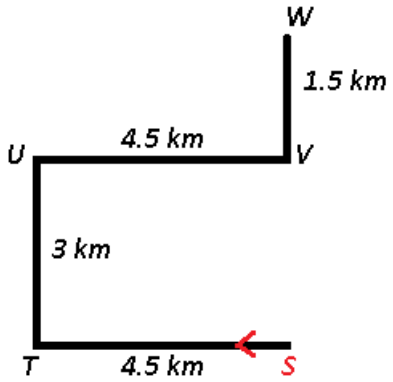
D 1.5 km North

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.



=> SW = $3 + 1.5 = 4.5$ km

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

=> Ans - (A)

Question 12

A brother and sister leave home for school. The brother goes 0.5 km East, then turns right and goes 3.5 km and reaches his school. The sister goes 2.5 km North, then 1 km West, then turns left and goes 6 km and reaches her school. Where is the brother's school with respect to the sister's school?

A 0.5 km East

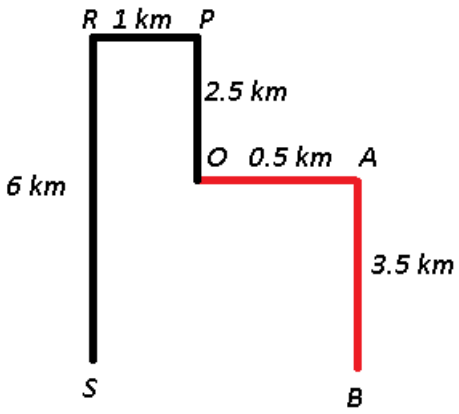
B 1.5 km West

C 0.5 km West

D 1.5 km East

Answer: D

Explanation:
Let the brother and sister leave home from point O. The brother (red) goes 0.5 km East to A, then turns right and goes 3.5 km and reaches his school B. The sister (black) goes 2.5 km North, then 1 km West to point R, then turns left and goes 6 km southwards and reaches her school S.



=> BS = $1 + 0.5 = 1.5$ km

∴ Brother's school is **1.5 km east** with respect to the sister's school.

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=> Ans - (D)

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Question 13

Chand and Dhyan start from the same point. Chand walks 105 m North, then turns East and walks 55 m, then turns to his right and walks 75 m. At the same time, Dhyan walks 45 m South, then turns to his left and walks 55 m. Where is Chand now with respect to the position of Dhyan?

A 135 m North

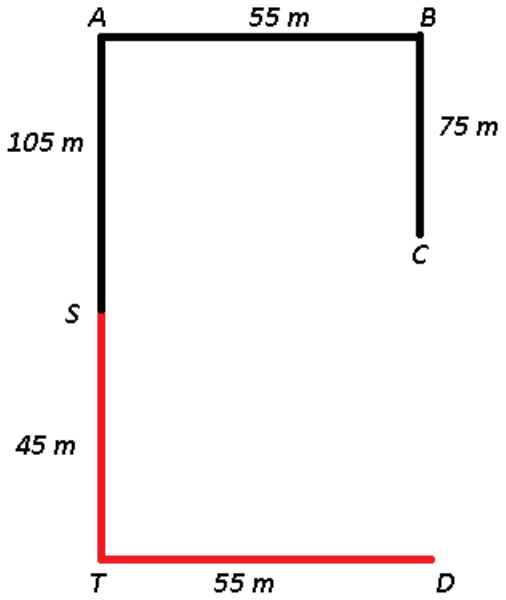
B 75 m North

C 75 m South

D 135 m South

Answer: B

Explanation:
Chand and Dhyan start from the same point S. Chand (black) walks 105 m North to A, then turns East and walks 55 m to reach B, then turns to his right and walks 75 m southwards to point C. At the same time, Dhyan (red) walks 45 m South, then turns to his left and walks 55 m eastwards to reach point D.



=> CD = $(105 - 75) + 45 = 75$ m

∴ Chand is **75 m north** with respect to the position of Dhyan.

=> Ans - (B)

Question 14

From a hospital S, Pritam walked 49 metres to the south, then after turning to right he walked 49 metres. He again turned right and walked another 34 metres and finally turned to right and walked 49 metres. At what distance (in metres) and in which direction is he from the hospital S now?

A 15, North

B 22√3, North

C 15, South

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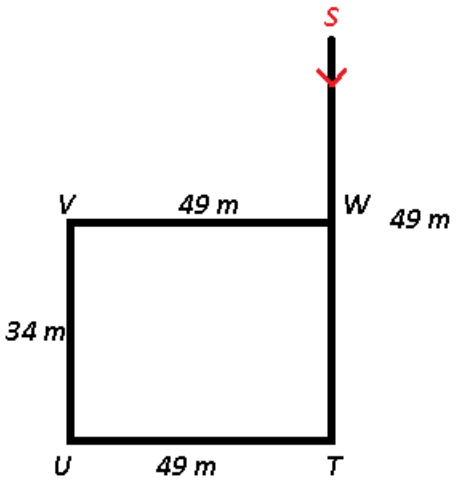
D 22√3, South

Answer: C

Explanation:
From a hospital S, Pritam walked 49 metres to the south to T, then after turning to right he walked 49 metres westwards to point U. He again turned right and walked another 34 metres to reach V and finally turned to right and walked 49 metres to stop at point W.



=> SW = $49 - 34 = 15$ km

∴ He is **15 m south** from the hospital S now.

=> Ans - (C)

Question 15

Two aeroplanes start from the same strip. Aeroplane P flies 65 miles North, then turns left flies 45 miles and lands. In the meanwhile aeroplane Q flies 80 miles West, then flies 40 miles South, then turns to its left, flies 35 miles and lands. Where is aeroplane Q with respect to aeroplane P?

A 25 miles South

B 105 miles North

C 25 miles North

D 105 miles South

Answer: D

Explanation:
Let the two aeroplanes start from the same strip S. Aeroplane P (red) flies 65 miles North to reach T, then turns left and flies 45 miles and lands at point U. In the meanwhile aeroplane Q (black) flies 80 miles West to R, then flies 40 miles South, and finally turns to its left, flies 35 miles towards east and lands at point P.

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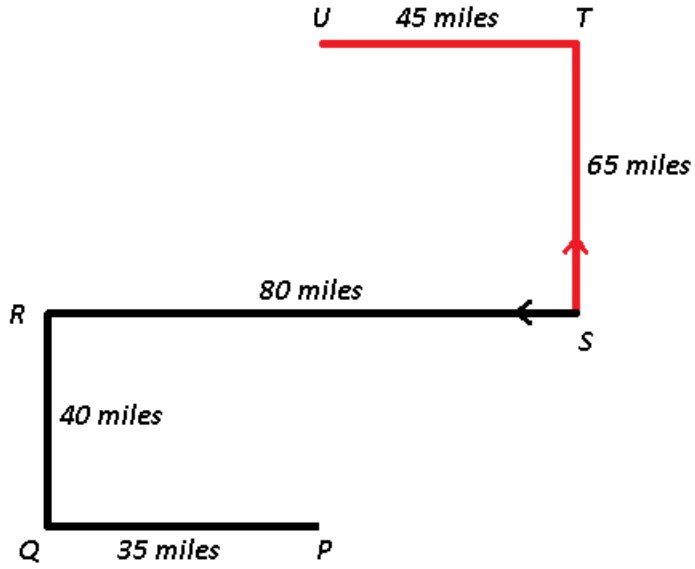

=> PU = $40 + 65 = 105$ miles

∴ Aeroplane Q is **105 miles south** with respect to aeroplane P.

=> Ans - (D)

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