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Q. 1 **One morning after sunrise, Vimal started to walk. During this walking he met Stephen who was coming from opposite direction. Vimal watch that the shadow of Stephen to the right of him (Vimal). To Which direction Vimal was facing?**

- [A] East
- [B] West
- [C] South
- [D] Data inadequate

Answer Option [C]

Explanation:

Sun rises in the east. So the shadow of a man will always falls towards the west. Since the shadow of Stephen is to the right of Vimal. Hence Vimal is facing towards South.

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Q. 2 **One morning after sunrise, Suresh was standing facing a pole. The shadow of the pole fell exactly to his right. To which direction was he facing?**

- [A] East
- [B] South
- [C] West
- [D] Data is inadequate

Answer Option [B]

Explanation: Sun rises in the east in the morning. Since the shadow of Suresh falls to his right. So he is facing South.

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Q. 3 **Two cars start from the opposite places of a main road, 150 km apart. First car runs for 25 km and takes a right turn and then runs 15 km. It then turns left and then runs for another 25 km and then takes the direction back to reach the main road. In the mean time, due to minor break down the other car has run only 35 km along the main road. What would be the distance between two cars at this point?**

- [A] 65 km
- [B] 75 km
- [C] 80 km
- [D] 85 km

Answer Option [A]

Explanation: 

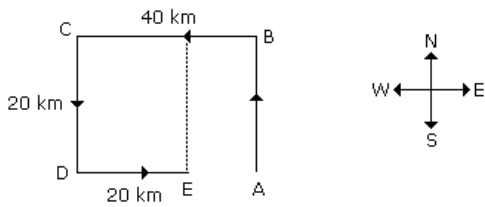
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Q. 4 **Sachin walks 20 km towards North. He turns left and walks 40 km. He again turns left and walks 20 km. Finally he moves 20 km after turning to the left. How far is he from his starting position?**

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

Answer Option [A]

Explanation:



Required distance = $40 - 20 = 20$ km.

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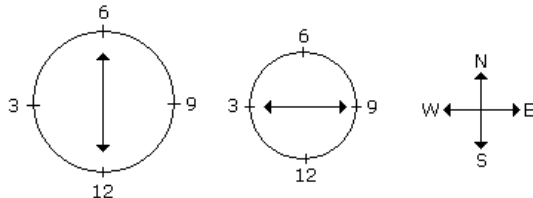
Q. 5 **Rahul put his timepiece on the table in such a way that at 6 P.M. hour hand points to North. In which direction the minute hand will point at 9.15 P.M. ?**

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

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Answer Option [D]

Explanation:



At 9.15 P.M., the minute hand will point towards west.

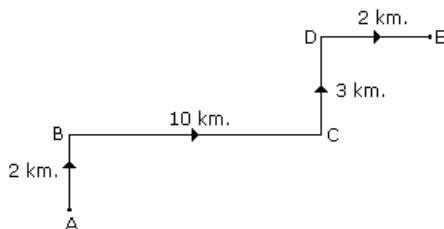
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Q. 6 **A man walks 2 km towards North. Then he turns to East and walks 10 km. After this he turns to North and walks 3 km. Again he turns towards East and walks 2 km. How far is he from the starting point?**

- [A] 10 km
- [B] 13 km
- [C] 15 km
- [D] None of these

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Answer Option [B]



Required distance = AE

$$= \sqrt{5^2 + 12^2}$$

$$= 13 \text{ km.}$$

Explanation:

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Q. 7 **One morning Udai and Vishal were talking to each other face to face at a crossing. If Vishal's shadow was exactly to the left of Udai, which direction was Udai facing?**

- [A] East
- [B] West

[C] North

[D] South

Answer Option [C]

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Explanation:

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Q. 8 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

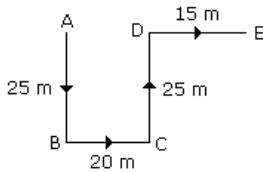
[B] 35 m North

[C] 30 m West

[D] 45 m East

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Answer Option [A]



$$\begin{aligned} \text{Required distance} &= AE \\ &= 20 + 15 \\ &= 35 \text{ m towards east.} \end{aligned}$$

Explanation:

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Q. 9 K is 40 m South-West of L. If M is 40 m South-East of L, then M is in which direction of K?

[A] East

[B] West

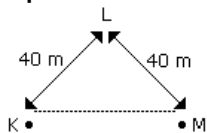
[C] North-East

[D] South

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Answer Option [A]

Explanation:



Hence M is in the East of K.

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Q. 10 One evening before sunset Rekha and Hema were talking to each other face to face. If Hema's shadow was exactly to the right of Hema, which direction was Rekha facing?

[A] North

[B] South

[C] East

[D] Data is inadequate

Answer Option [B]

Explanation:



In the evening sun sets in West. Hence then any shadow falls in the East. Since Hema's shadow was to the right of Hema. Hence Rekha was facing towards South.

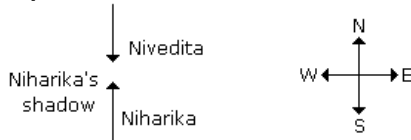
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Q. 11 **One morning after sunrise Nivedita and Niharika were talking to each other face to face at Dalphin crossing. If Niharika's shadow was exactly to the right of Nivedita, Which direction Niharika was facing?**

- [A] North
- [B] South
- [C] East
- [D] Data is inadequate

Answer Option [A]

Explanation:



In the morning sun rises in the East. Hence then any shadow falls in the West. Since Niharika's shadow was exactly to the right of Nivedita. Hence Niharika is facing towards North.

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Q. 12 **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

Answer Option [B]

Explanation:



S is to the South-West of R.

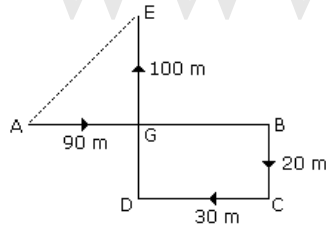
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Q. 13 **A child went 90 m in the East to look for his father, then he turned right and went 20 m. After this he turned right and after going 30 m he reached to his uncle's house. His father was not there. From there he went 100 m to his north and met his father. How far did he meet his father from the starting point?**

- [A] 80 m
- [B] 100 m
- [C] 140 m

[D] 260 m

Answer Option [B]



$$\begin{aligned}\text{Required distance} &= AE \\ &= \sqrt{AG^2 + EG^2} \\ &= \sqrt{(90 - 30)^2 + (100 - 20)^2} \\ &= \sqrt{(60)^2 + (80)^2} \\ &= \sqrt{3600 + 6400} \\ &= \sqrt{10000} \\ &= 100 \text{ m}\end{aligned}$$

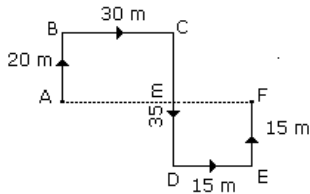
Explanation:

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Q. 14 Rasik walked 20 m towards north. Then he turned right and walks 30 m. Then he turns right and walks 35 m. Then he turns left and walks 15 m. Finally he turns left and walks 15 m. In which direction and how many metres is he from the starting position?

- [A] 15 m West
- [B] 30 m East
- [C] 30 m West
- [D] 45 m East

Answer Option [D]



$$\begin{aligned}\text{Required distance} &= AF \\ &= 30 + 15 \\ &= 45 \text{ m.}\end{aligned}$$

From the above diagram, F is in East direction from A.

Hence the required answer is '45 m East'.

Explanation:

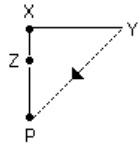
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Q. 15 Y is in the East of X which is in the North of Z. If P is in the South of Z, then in which direction of Y, is P?

- [A] North
- [B] South
- [C] South-East
- [D] None of these

Answer Option [D]

Explanation:



P is in South-West of Y.

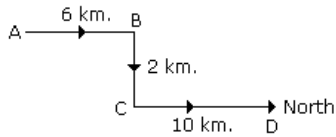
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Q. 16 After walking 6 km, I turned to the right and then walked 2 km. After then I turned to the left and walked 10 km. In the end, I was moving towards the North. From which direction did I start my journey?

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

Answer Option [B]

Explanation:



The journey was started from the South.

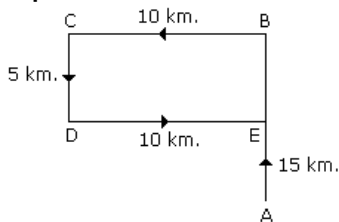
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Q. 17 From his house, Lokesh went 15 km to the North. Then he turned west and covered 10 km. Then he turned south and covered 5 km. Finally turning to the east, he covered 10 km. In which direction is he from his house?

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

Answer Option [C]

Explanation:



Therefore, it is clear that he is in the North from his house.

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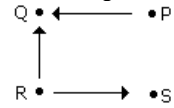
Q. 18 If $A \times B$ means A is to the south of B; $A + B$ means A is to the north of B; $A \% B$ means A is to the east of B; $A - B$ means A is to the west of B; then in $P \% Q + R - S$, S is in which direction with respect to Q?

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

Answer Option [B]

Explanation:

According to P % Q + R - S



S is in the South-East of Q.

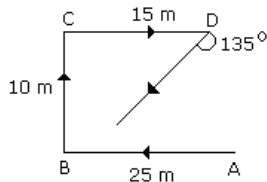
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Q. 19 **P started from his house towards west. After walking a distance of 25 m. He turned to the right and walked 10 m. He then again turned to the right and walked 15 m. After this he is to turn right at 135° and to cover 30 m. In which direction should he go?**

- [A] West
- [B] South
- [C] South-West
- [D] South-East

Answer Option [C]

Explanation:



Hence he should go in the South-West direction.

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Q. 20 **Hemant in order to go to university started from his house in the east and came to a crossing. The road to the left ends in a theatre, straight ahead is the hospital. In which direction is the university?**

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

Answer Option [A]

Explanation:



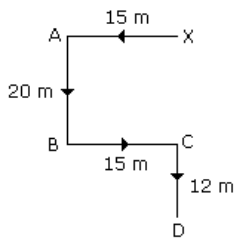
Therefore university is in North.

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Q. 21 **Starting from the point X, Jayant walked 15 m towards west. He turned left and walked 20 m. He then turned left and walked 15 m. After this he turned to his right and walked 12 m. How far and in which directions is now Jayant from X?**

- [A] 32 m, South
- [B] 47 m, East
- [C] 42 m, North
- [D] 27 m, South

Answer Option [A]



Required distance = 20 + 12

Explanation: = 32 m in south direction

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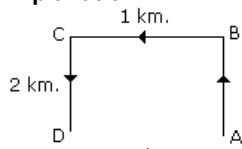
Q. 22 **A boy rode his bicycle Northward, then turned left and rode 1 km and again turned left and rode 2 km. He found himself 1 km west of his starting point. How far did he ride northward initially?**

- [A] 1 km
- [B] 2 km
- [C] 3 km
- [D] 5 km

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Answer Option [B]

Explanation:



The boy rode 2 km. Northward.

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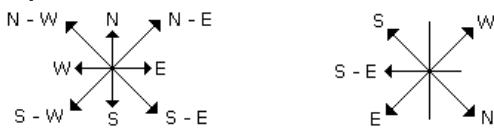
Q. 23 **If South-East becomes North, North-East becomes West and so on. What will West become?**

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

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Answer Option [C]

Explanation:



It is clear from the diagrams that new name of West will become South-East.

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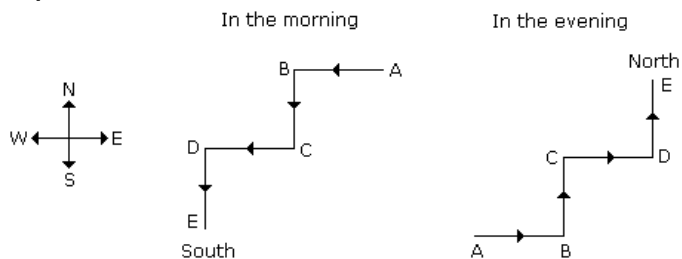
Q. 24 **Amit started walking positioning his back towards the sun. After some time, he turned left, then turned right and towards the left again. In which direction is he going now?**

- [A] North or South
- [B] East or West
- [C] North or West
- [D] South or West

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Answer Option [A]

Explanation:



If he starts walking the morning then finally he will face towards South and if he starts in the evening then finally he will face towards North.

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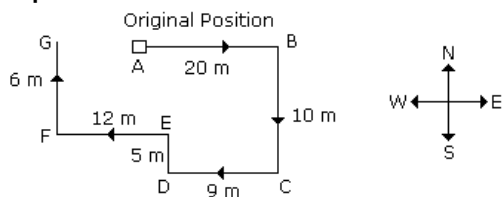
Q. 25 **Sundar runs 20 m towards East and turns to right and runs 10 m. Then he turns to the right and runs 9 m. Again he turns to right and runs 5 m. After this he turns to left and runs 12 m and finally he turns to right and 6 m. Now to which direction is Sundar facing?**

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

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Answer Option [C]

Explanation:



Therefore, it is clear that Sundar will face towards North.

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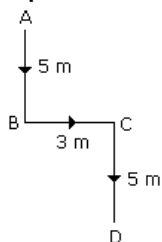
Q. 26 **X started to walk straight towards south. After walking 5 m he turned to the left and walked 3 m. After this he turned to the right and walked 5 m Now to which direction X is facing?**

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

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Answer Option [B]

Explanation:



Hence X will face in the end towards South.

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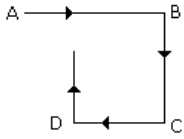
Q. 27 **One morning sujata started to walk towards the Sun. After covering some distance she turned to right then again to the right and after covering some distance she again turns to the right. Now in which direction is she facing?**

- [A] North

- [B] South
- [C] North-East
- [D] South-West

Answer Option [A]

Explanation:

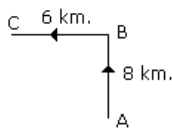


Hence finally Sujata will face towards North.

Q. 28 **Golu started from his house towards North. After covering a distance of 8 km. he turned towards left and covered a distance of 6 km. What is the shortest distance now from his house?**

- [A] 10 km.
- [B] 16 km.
- [C] 14 km
- [D] 2 km.

Answer Option [A]



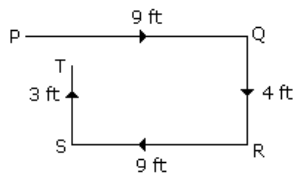
$$\begin{aligned}
 \text{Required distance} &= AC \\
 &= \sqrt{8^2 + 6^2} \\
 &= \sqrt{64 + 36} \\
 &= \sqrt{100} \\
 &= 10 \text{ km.}
 \end{aligned}$$

Explanation:

Q. 29 **Umesh directly went from P, to Q which is 9 feet distant. Then he turns to the right and walked 4 feet. After this he turned to the right and walked a distance which is equal from P to Q. Finally he turned to the right and walked 3 feet. How far is he now from P?**

- [A] 6 feet
- [B] 5 feet
- [C] 1 feet
- [D] 0 feet

Answer Option [C]



$$\begin{aligned} \text{Required distance} &= PT \\ &= 4 - 3 \\ &= 1 \text{ ft.} \end{aligned}$$

Explanation:

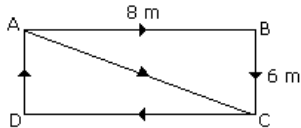
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Q. 30 The length and breadth of a room are 8 m and 6 m respectively. A cat runs along all the four walls and finally along a diagonal order to catch a rat. How much total distance is covered by the cat?

- [A] 10
- [B] 14
- [C] 38
- [D] 48

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Answer Option [C]



$$\begin{aligned} \text{Required distance} &= 8 + 6 + 8 + 6 + \sqrt{8^2 + 6^2} \\ &= 28 + \sqrt{100} \\ &= 28 + 10 \\ &= 38 \text{ m} \end{aligned}$$

Explanation:

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Q. 31 Four friends A, B, C and D live in a same locality. The house of B is in the east of A's house but in the north of C's house. The house of C is in the west of D's house. D's house is in which direction of A's house?

- [A] South-East
- [B] North-East
- [C] East
- [D] Data is inadequate

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Answer Option [A]

Explanation:

A B

C D

Therefore, D's house is in the South-East direction of A.

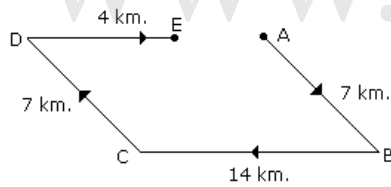
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Q. 32 Radha moves towards South-East a distance of 7 km, then she moves towards West and travels a distance of 14 km. From here she moves towards North-West a distance of 7 km and finally she moves a distance of 4 km towards east. How far is she now from the starting point?

- [A] 3 km
- [B] 4 km
- [C] 10 km

[D] 11 km

Answer Option [C]



$$\begin{aligned} \text{Required distance} &= \Delta E \\ &= 14 - 4 \\ &= 10 \text{ km.} \end{aligned}$$

Explanation:

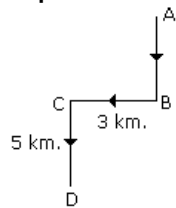
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Q. 33 A man walks 5 km toward south and then turns to the right. After walking 3 km he turns to the left and walks 5 km. Now in which direction is he from the starting place?

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

Answer Option [D]

Explanation:



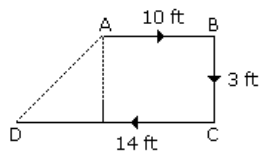
Hence required direction is South-West.

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Q. 34 Reena walked from A to B in the East 10 feet. Then she turned to the right and walked 3 feet. Again she turned to the right and walked 14 feet. How far is she from A?

- [A] 4 feet
- [B] 5 feet
- [C] 24 feet
- [D] 27 feet

Answer Option [B]



$$\begin{aligned} \text{Required distance} &= AD \\ &= \sqrt{3^2 + (14 - 10)^2} \\ &= \sqrt{9 + 16} \\ &= 5 \text{ ft} \end{aligned}$$

Explanation:

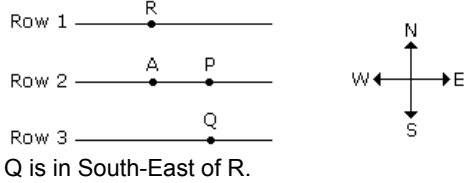
Q. 35 Some boys are sitting in three rows all facing North such that A is in the middle row. P is just to the right of A but in the same row. Q is just behind of P while R is in the North of A. In which direction of R is Q?

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

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Answer Option [D]

Explanation:

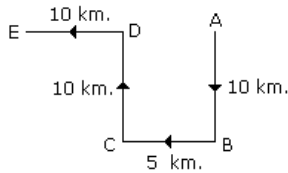


Q. 36 Ravi left home and cycled 10 km towards South, then turned right and cycled 5 km and then again turned right and cycled 10 km. After this he turned left and cycled 10 km. How many kilometers will he have to cycle to reach his home straight?

- [A] 10 km
- [B] 15 km
- [C] 20 km
- [D] 25 km

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Answer Option [B]



Required distance = AE
 = 5 + 10
 = 15 km.

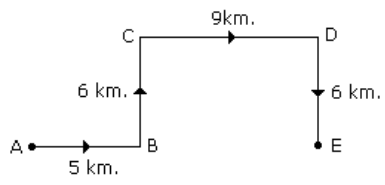
Explanation:

Q. 37 Shyam walks 5 km towards East and then turns left and walks 6 km. Again he turns right and walks 9 km. Finally he turns to his right and walks 6 km. How far is he from the starting point?

- [A] 26 km
- [B] 21 km
- [C] 14 km
- [D] 9 km

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Answer Option [C]



$$\begin{aligned}\text{Required distance} &= AE \\ &= 5 + 9 \\ &= 14 \text{ km.}\end{aligned}$$

Explanation: