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# Puzzle Test Questions for IBPS PO PRE, SBI PO PRE, SBI Clerk Mains, IBPS Clerk Mains, IBPS SO Pre and RRB Scale I Pre Exams.

## Direction Sense Quiz 9

**Direction :** Read the given information carefully and answer the questions given beside: (A set of 3 questions)

Two friends Tinu and Dinu are driving car in Paris. Tinu is facing north and Dinu is facing south. They drive their cars for 80 meters in the direction they are facing and reached HDFC Bank and CUB ATM respectively. Then they turn right and drive for another 70 meters and reached PVR cinemas and Phoenix mall respectively. Then they take 90 degree anti clock wise direction for 40 meters and then they turn right. After driving for 30 meters Dinu reaches at CTS and Tinu reached at TCS.

**1. Initially, if Dinu was 270 meters to the east of Tinu, then what is the shortest distance and direction of TCS with respect to CTS?**

- A. 250 meters, north-west                      B. 250 meters, north-east                      C. 240 meters, north  
D. Either A or C                                      E. Cannot be determined.

**2. Initially, if Dinu was 200 meters to the east of Tinu, then what is the shortest distance and direction of TCS with respect to CTS?**

- A. 250 meters, north-west                      B. 250 meters, north-east                      C. 240 meters, north  
D. Either A or C                                      E. Cannot be determined.

**3. Initially, if Dinu was 130 meters to the east of Tinu, then what is the shortest distance and direction of TCS with respect to CTS?**

- A. 250 meters, north-west                      B. 250 meters, north-east                      C. 240 meters, north  
D. Either A or C                                      E. Cannot be determined

**Direction :** Read the given information carefully and answer the questions given beside: (A set of 2 questions)

A is north-east of B. The shortest distance between A and B is 10 meter. C is south of A and east of B. The distance between B and C is twice the distance between A and E. The distance between A and C is twice the distance E and H. E is north of A. H is east of E. H is 3meter south of G. The shortest distance between G and E is 5 meter.

**4. What is the shortest distance between point A and H?**

- A. 6 meter                      B. 7 meter                      C. 5 meter                      D. 4 meter                      E. Cannot be determined

**5. What is the sum of the distance between A and C & E and H?**

- A. 9 meter                      B. 10 meter                      C. 12 meter                      D. 14 meter                      E. Cannot be determined

**Direction : Read the given information carefully and answer the questions given beside: (A set of 3 questions)**

Two persons Aditiya and Arjun starts walking from the same point. Aditiya walks 5 m towards north and takes a right turn and walks 4 m and then takes a left turn and walks 3 m and then turn towards his right and walks 10 m and finally takes a right turn and walks 4 m to reach the Indian Bank. Arjun walks 2 m towards west and then turns to his left and walks 6 m and again turns to his left and walks 4 m and turns to his right and walks 5 m and again takes a right turn and walks 9 m and finally he takes a right turn and walks 7 m to reach his home.

**6. Arjun's home is in which direction with respect to Aditiya's office (Indian Bank)?**

- A. West                      B. South West                      C. East                      D. North East                      E. Cannot be determined

**7. How far and in which direction is Arjun's home from starting point?**

- A. 65m, South East                      B. 65m, South West                      C. 13m, South East  
D. 13m, South West                      E. None of these

**8. If Ratan, who is standing at a distance of 17 m to the east from the starting point, walks 4 m to the north, at what distance and in which direction will be Indian Bank from Ratan's end point?**

- A. 3m, to the east                      B. 2m, to the east                      C. 2m, to the west  
D. 3m, to the west                      E. None of these

**Direction : Read the given information carefully and answer the questions given beside: (A set of 1 questions)**

Arshad starts walking from his house in north direction. After walking for 400meters, he reaches the HDFC Bank. Then, from the HDFC Bank, he walks 50 meter in the same direction in which he is facing. Then he turns right and walks 180 meters. Then he finally he turns and walks 130 meters in south-east direction to reach his office, HCL which is in east of the HDFC Bank.

**9. What is the shortest between Arshad's house and his office, HCL?**

- A. 450m                      B. 500m                      C. 550m                      D. 600m                      E. Cannot be determined

**Direction : Read the given information carefully and answer the questions given beside: (A set of 1 questions)**

Falyaz is standing to the north of Hiran. Hiran is standing 15m to the west of Mitul. Sahil is 15m to the north of Mitul and forms a straight horizontal line with Falyaz. Vihaan is equidistant from all of them.

**10. Vihaan is in which direction with respect to Mitul?**

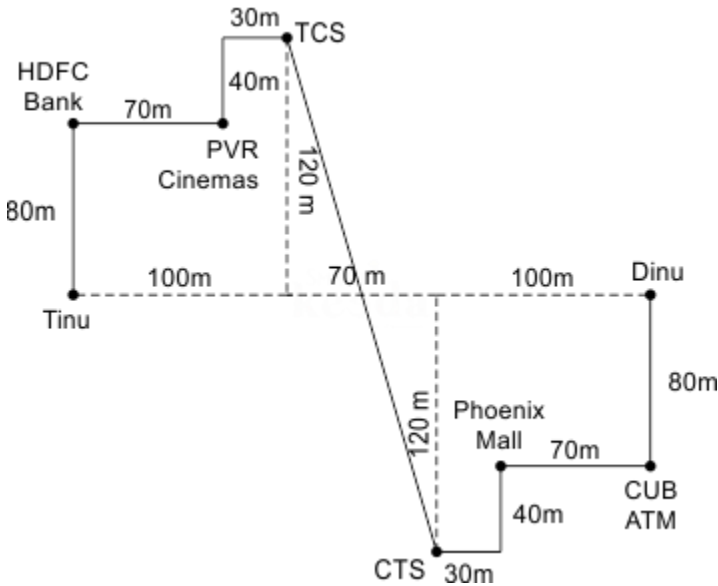
- A. North-West                      B. North-East                      C. South-West                      D. South-East                      E. Cannot be determined

**Correct Answers:**

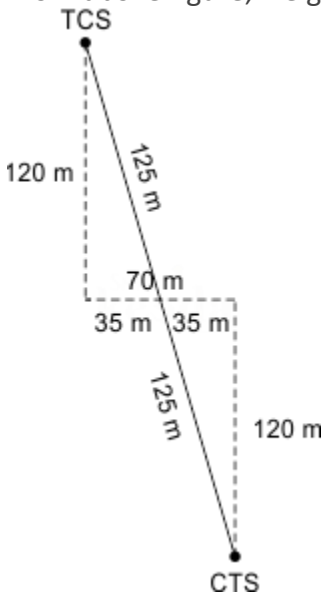
1	2	3	4	5	6	7	8	9	10
A	C	B	C	C	B	E	D	B	A

**Explanations:**

1.



From above figure, we get,



$$\sqrt{(120)^2 + (35)^2} = \sqrt{14400 + 1225} = \sqrt{15625}$$

$$\sqrt{15625} = 125\text{m [TCS to midpoint]}$$

Similarly we get

125 m from CTS to midpoint.

Total Distance = 125 m + 125 m = 250 m

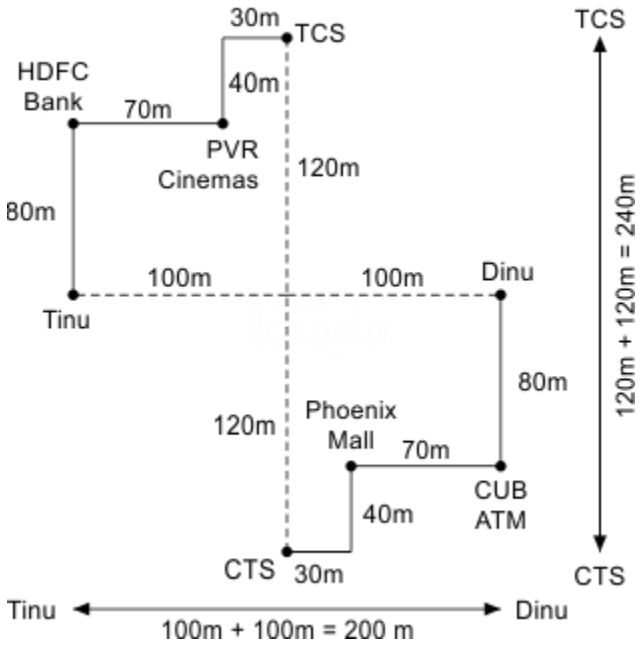
TCS is north-west direction with respect to CTS.

Hence, option A is correct.



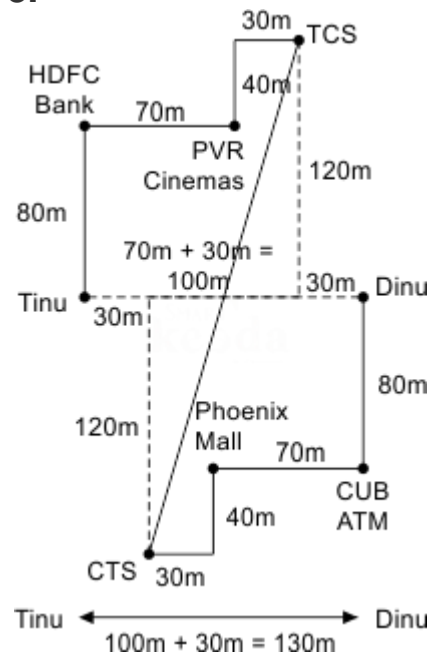
2. From fig, TCS is north direction with respect to CTS.

Total Distance = 120 m + 120 m = 240 m

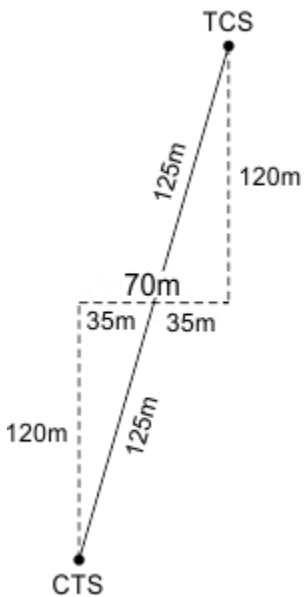


Hence, option C is correct.

3.



From above figure, we get



$$\sqrt{(120)^2 + (35)^2} = \sqrt{14400 + 1225} = \sqrt{15625}$$

$$\sqrt{15625} = 125\text{m [TCS to midpoint]}$$

Similarly we get

From CTS to midpoint is 125 m.

Total Distance = 125 m + 125 m = 250 m

TCS is north-west direction with respect to CTS.

Hence, option B is correct.

4. The following common explanation, we get "5 meter".

$$\text{From, figure, } (AH)^2 = (EH)^2 + (AE)^2$$

$$(AH)^2 = (4)^2 + (3)^2$$

$$16 + 9 = (AH)^2$$

$$25 = (AH)^2$$

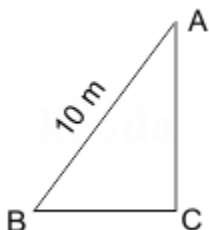
$$AH = 5 \text{ meter}$$

Hence, option C is correct.

#### Common Explanation:

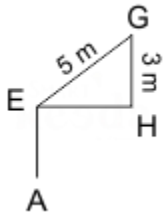
#### References

A is north-east of B. The shortest distance between A and B is 10 meter. C is south of A and east of B.



## References

E is north of A. H is east of E. H is 3 meter south of G. The shortest distance between G and E is 5 meter.



[Figure 2]

From, figure (2),

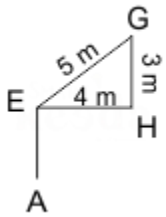
$$(EG)^2 = (EH)^2 + (HG)^2$$

$$(5)^2 = (EH)^2 + (3)^2 \Rightarrow 25 = (EH)^2 + 9$$

$$25 - 9 = (EH)^2 \Rightarrow 16 = (EH)^2$$

Therefore,

distance [E to H] = 4 meter



## References

The distance between B and C is twice the distance between A and E.

The distance between A and C is twice the distance E and H.

We know,

Distance between E and H = 4 meter

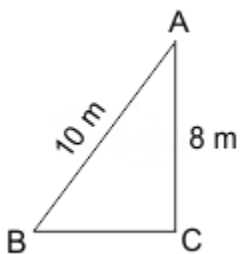
Given,

Distance [A to C] = 2 { Distance [E to H] }

Distance [A to C] =  $2 \times 4 = 8$  meter

Thus we get fig 1 as,

[Figure 3]



From, figure (3),

$$(BA)^2 = (BC)^2 + (AC)^2$$

$$(10)^2 = (BC)^2 + (8)^2$$

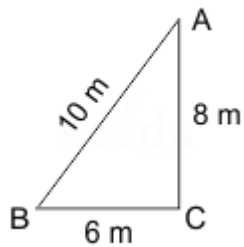
$$100 = (BC)^2 + 64$$

$$100 - 64 = (BC)^2$$

$$36 = (BC)^2$$

Therefore,

distance [B to C] = 6 meter



We know,

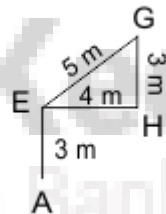
Distance between B and C = 6 meter

Given,

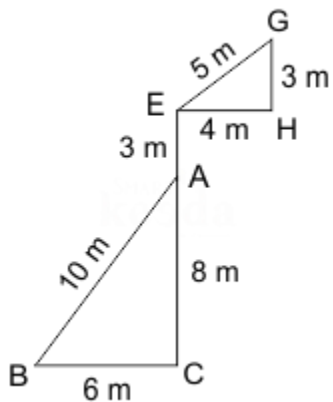
Distance [B to C] = 2 {Distance [E to A]}

6 meter = 2 {Distance [E to A]}

Distance [E to A] = 6 meter / 2 = 3 meter



Combining all figures, we get



5. The following common explanation, we get "12 meter".

From figure, Distance [A to C] = 8 meter

Distance [E to H] = 4 meter.

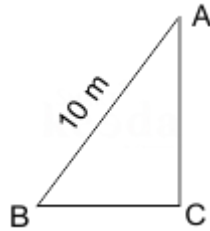
Sum = 8 + 4 = 12 meter

Hence, option C is correct.

**Common Explanation:**

**References**

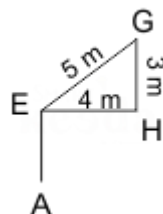
A is north-east of B. The shortest distance between A and B is 10 meter. C is south of A and east of B.



**References**

E is north of A. H is east of E. H is 3 meter south of G. The shortest distance between G and E is 5 meter.

<p>[Figure 2]</p>	<p>From, figure (2),</p> $(EG)^2 = (EH)^2 + (HG)^2$ $(5)^2 = (EH)^2 + (3)^2$ $25 = (EH)^2 + 9$ $25 - 9 = (EH)^2$ $16 = (EH)^2$ <p>Therefore,</p> <p>distance [E to H] = 4 meter</p>
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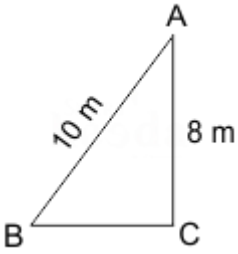


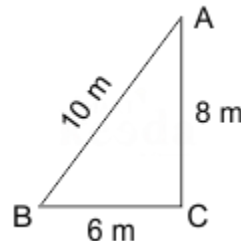


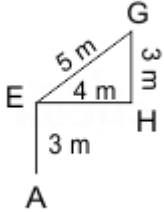
## References

The distance between B and C is twice the distance between A and E.

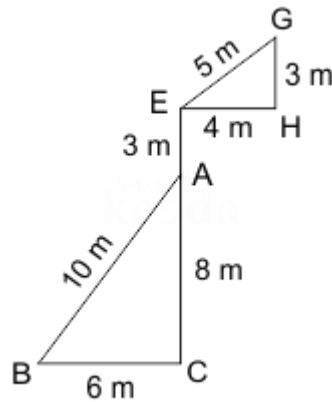
The distance between A and C is twice the distance E and H.

<p><b>We know,</b> Distance between E and H = 4 meter</p> <p><b>Given,</b> Distance [A to C] = 2 {Distance [E to H]}</p> <p>Distance [A to C] = <math>2 * 4 = 8</math> meter</p> <p>Thus we get fig 1 as,</p>  <p>[Figure 3]</p>	<p><b>From, figure (3),</b></p> $(BA)^2 = (BC)^2 + (AC)^2$ $(10)^2 = (BC)^2 + (8)^2$ $100 = (BC)^2 + 64$ $100 - 64 = (BC)^2$ $36 = (BC)^2$ <p><b>Therefore,</b> distance [B to C] = 6 meter</p>
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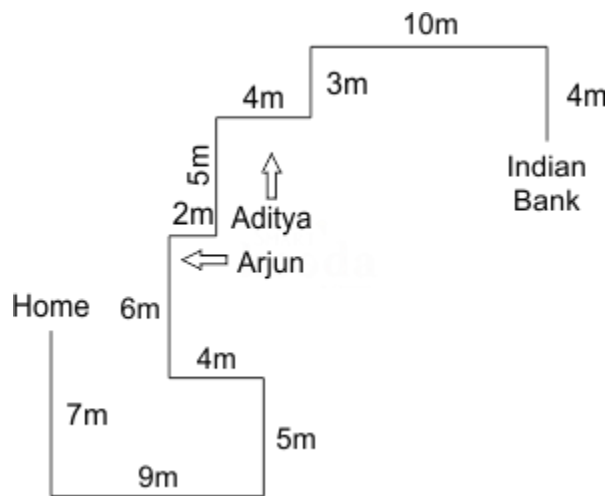
<p><b>We know,</b> Distance between B and C = 6 meter</p> <p><b>Given,</b> Distance [B to C] = 2 {Distance [E to A]}</p> <p>6 meter = 2 {Distance [E to A]}</p> <p>Distance [E to A] = <math>6 \text{ meter} / 2 = 3</math> meter</p>	
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Combining all figures, we get



6. Following common explanation, we get that Arjun's house in "South West" direction of Aditya's office which is Indian Bank.

Hence, option B is correct.



**Common Explanation**

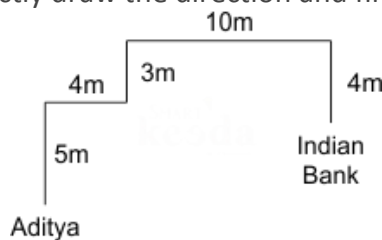
**References**

Two persons Aditya and Arjun starts walk from the same point.

Aditya walks 5m towards north and takes a right turn and walks 4m and then takes a left turn and walks 3m and then turn towards his right and walks 10m and finally takes a right turn and walks 4m to reach the Indian Bank.

**Inferences**

By using above information, we can directly draw the direction and first we find Aditya travel distance.

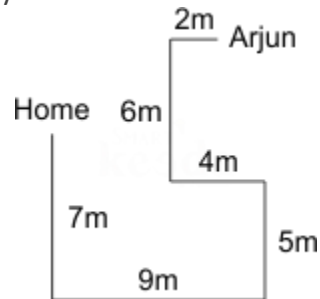


## References

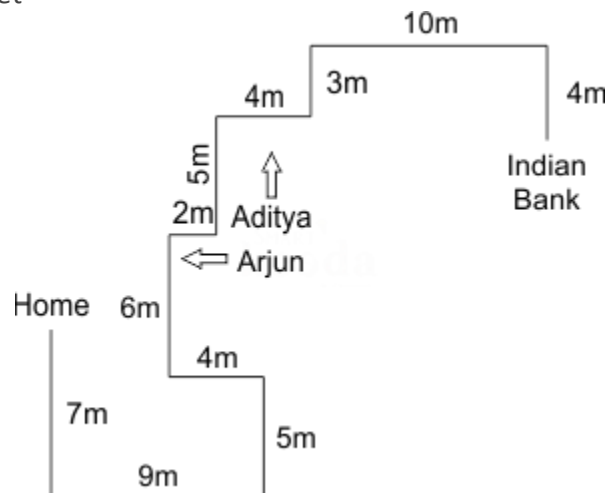
Arjun walks 2m towards west and then turns to his left and walks 6m and again turns to his left and walks 4m and turns to his right and walks 5m and again takes a right turn and walks 9m and finally he takes a right turn and walks 7m to reach the home.

## Inferences

By using above information, we can directly draw the direction and first we find Arjun travel distance.



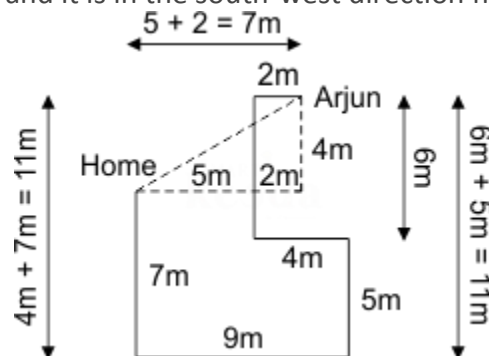
By combining two figures, we get



7. Following common explanation, we get that none of the given options is correct.

Option E is hence the correct answer.

**Calculation:**  $7^2 + 4^2 = 49 + 16 = 65$  m, and it is in the south-west direction from the starting point.



## Common Explanation

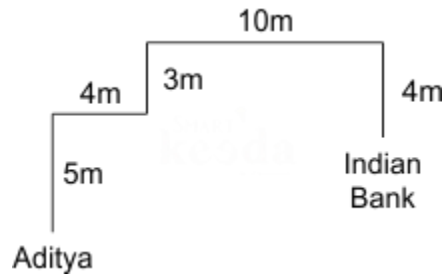
### References

Two persons Aditiya and Arjun starts walk from the same point.

Aditiya walks 5m towards north and takes a right turn and walks 4m and then takes a left turn and walks 3m and then turn towards his right and walks 10m and finally takes a right turn and walks 4m to reach the Indian Bank.

### Inferences

By using above information, we can directly draw the direction and first we find Aditiya travel distance.

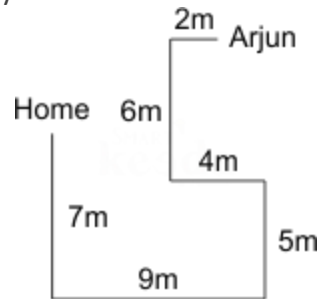


### References

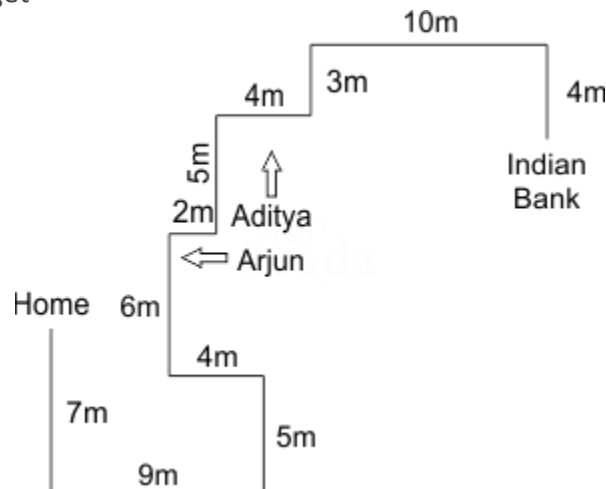
Arjun walks 2m towards west and then turns to his left and walks 6m and again turns to his left and walks 4m and turns to his right and walks 5m and again takes a right turn and walks 9m and finally he takes a right turn and walks 7m to reach the home.

### Inferences

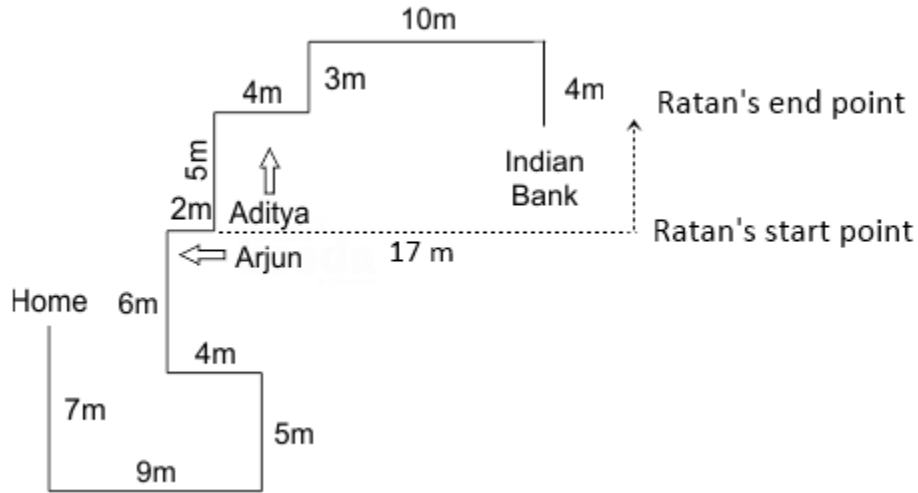
By using above information, we can directly draw the direction and first we find Arjun travel distance.



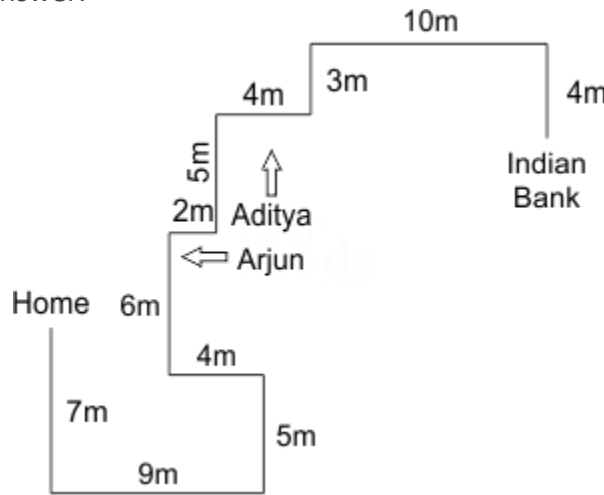
By combining two figures, we get



8. Following the diagram below we can say that Indian Bank will be 3 m far from Ratan's end point and it will be towards the west direction from Ratan's end point.



Option D is hence the correct answer.



**Common Explanation**

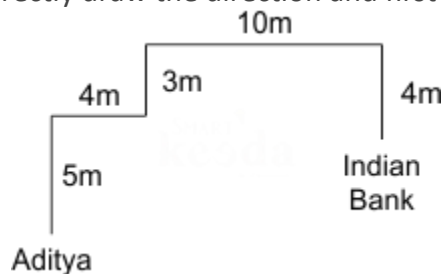
**References**

Two persons Aditiya and Arjun starts walk from the same point.

Aditiya walks 5m towards north and takes a right turn and walks 4m and then takes a left turn and walks 3m and then turn towards his right and walks 10m and finally takes a right turn and walks 4m to reach the Indian Bank.

**Inferences**

By using above information, we can directly draw the direction and first we find Aditiya travel distance.



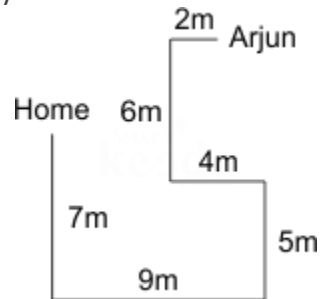


### References

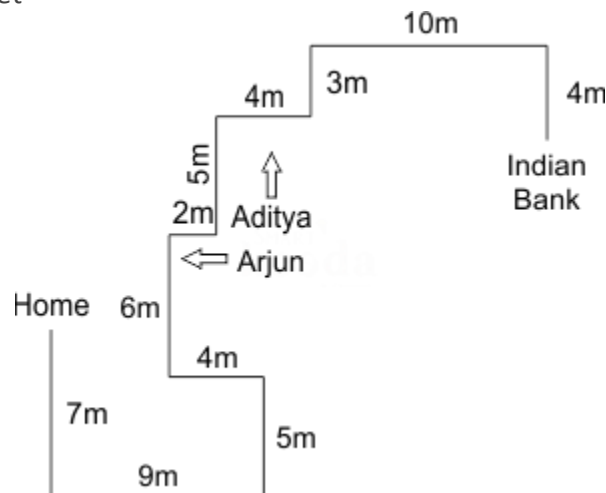
Arjun walks 2m towards west and then turns to his left and walks 6m and again turns to his left and walks 4m and turns to his right and walks 5m and again takes a right turn and walks 9m and finally he takes a right turn and walks 7m to reach the home.

### Inferences

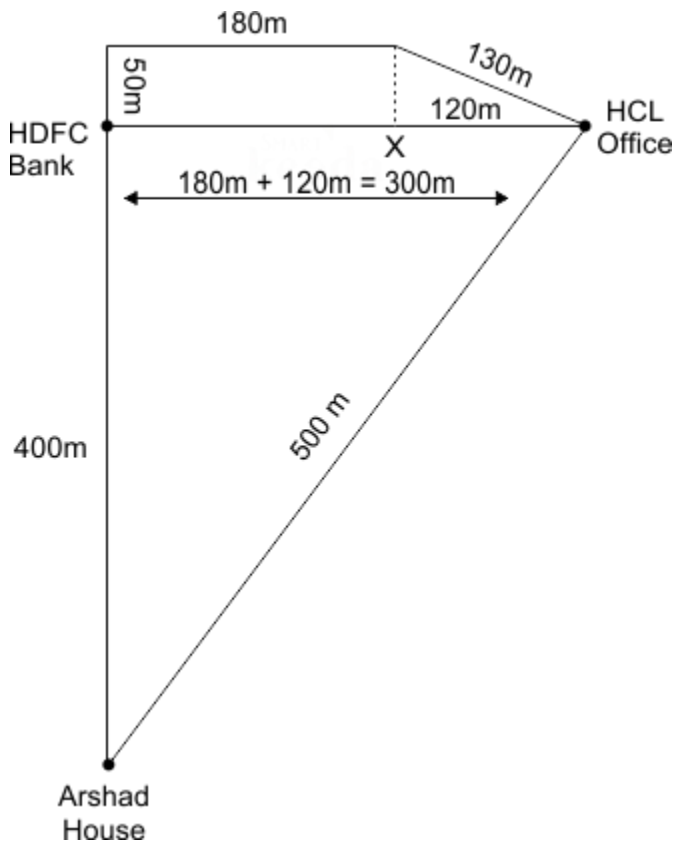
By using above information, we can directly draw the direction and first we find Arjun travel distance.



By combining two figures, we get



9.



**Note:** From HDFC Bank, he is facing north direction. From there he walks 50 meters.

Let Point X be the point, to find the distance between HCL and X.

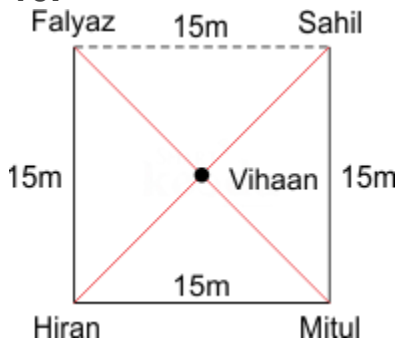
$$\sqrt{130^2 - 50^2} = \sqrt{16900 - 2500} = \sqrt{14400} = 120 \text{ m}$$

To find Shortest Distance between Arshad and HCL-Office

$$\sqrt{400^2 + 300^2} = 1\sqrt{160000 + 90000} = \sqrt{250000} = 500 \text{ m}$$

Hence, option B is correct.

10.



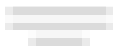
**Explanation/References:**

- Hiran is standing 15m to the west of Mitul.
- Sahil is 15m to the north of Mitul and forms a straight horizontal line with Falyaz.
- Falyaz is standing to the north of Hiran.
- Vihaan is equidistant from all of them.

**Note:** As per statement, Vihaan is exactly in the mid-point of all 4 of them. To make exact midpoint, then the distance between Falyaz and Hiran should be 15m and also the distance between Falyaz and Sahil is 15m as shown in diagram.

Vihaan is in North-West direction with respect to Mitul.

Hence, option A is correct.



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