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Puzzle Test Questions for LIC AAO, SBI PO PRE, IBPS PO PRE, SBI Clerk Mains and IBPS Clerk Mains Exams.

Direction Sense Quiz 16

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

Five friends Teenu, Bani, Chandni, Dev and Joy are playing Hide and Seek and standing randomly. Bani is to the northeast of Joy. Dev is 20 m to the east of Joy, who is 60 m to the west of Teenu. Chandni is to the northwest of Dev and in the line of Joy and Bani. Dev is 40 m to the south of Bani.

1. If Bani is to look for Teenu in the game, what distance she saves if she goes to Teenu straight instead of first going to Dev and then reaching Teenu?

- A. 42.47 m B. 56.60 m C. 27.34 m D. 23.44 m E. None of these

2. What angle does Bani make at the point where Teenu is standing while Joy, Dev and Teenu are in the same line?

- A. 135° B. 45° C. 90° D. 60° E. None of these

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

Lihaan walks 8m towards south from his office to reach park. Then take left and walks 15m to reach traffic signal. Then he turns 90 degree anti-clock wise direction and walks 8m to reach coffee shop. From the coffee shop he takes left and walks 8m to reach home.

3. What is the shortest distance between Lihaan's office and Traffic signal?

- A. 30 m B. 25 m C. 17 m D. 15 m E. None of these

4. Park is in which direction with respect to Lihaan's Home?

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

5. What is the horizontal distance between Lihaan's office and Coffee shop and in which direction is Coffee shop from Lihaan's Office?

- A. 15m, East B. 15 m, West C. 12m, East D. 12m, West E. None of these

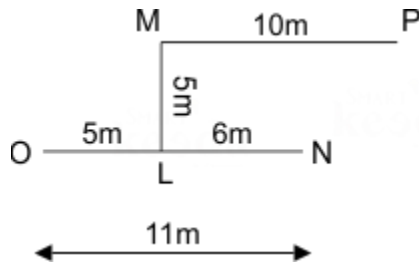
Direction : Read the given information carefully and answer the questions given beside: (A set of 2 questions)

Point M is 5 meters towards the North of Point L.

Point P is 10 meters towards the East of point M.

Point N is 6 meters towards the East of point L.

Point O is 5 meters towards the West of point L.



6. If a person walks 5 m towards the South from point P and then after taking a right turn, which of the following points would he reach first?

- A. L B. M C. N D. O E. None of these

7. Point A is 6m north of point B. Point C is 9m west of point B. Point R is 7m east of point S which is 12m south of point M. Point N is 2m north of point M.

If point S is 1m east of point B then, what is the distance between Point A and Point R?

- A. 6 m B. 8 m C. 10 m D. 12 m E. None of these

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

Kishore and Lokesh are siblings and live in the same room. Both of them went to their respective colleges from different routes. Colleges of both Kishore and Lokesh are in east direction with respect to their room.

8. Kishore moves 150m in north direction and turns right. After walking for 110m, he reached Axis bank. Then he turns right and move 70m to reach a traffic signal. Then he turns left and move 140m to reach the shopping mall. Then finally he moves 100m in south west direction to his college. What is the shortest distance between Axis bank and his college?

- A. 150 m B. 160 m C. 170 m D. 180 m E. None of these

9. Lokesh moves 120 m in north direction from his home and then turn right. After walking 110 m he reached Yes Bank. Then he turns right and moves 90 m to reach the coffee shop. Then he moves 100 m in north-east direction to reach Market, which is in the east direction of Yes bank. From there he moved 150 m in south-west direction to reach his college. What is the shortest distance between his room and his college?

- A. 110 m B. 70 m C. 85 m D. 140 m E. None of these

10. Rahul walked 30 m towards North and then he took a left turn and walked 10 m then he again took a left turn and walked 6 m. Find the shortest distance and in which direction is he from the starting point?

- A. 25 m Northeast B. 26 m Northwest C. 25 m Northwest D. 26 m Northeast E. None of these

Correct Answers:

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

Explanations:

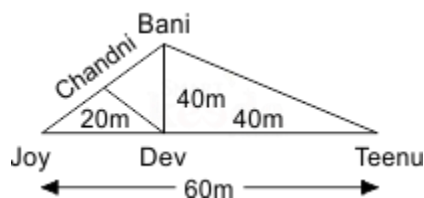
1. Distance covered by Bani while going to Dev and then reaching Teenu = $40 + 40 = 80$ m

$$\text{Distance covered by Bani while going straight to Teenu} = \sqrt{(40)^2 + (40)^2} = \sqrt{3200}$$

$$= 56.56 \text{ m}$$

$$\text{Therefore, the distance saved} = 80 - 56.56$$

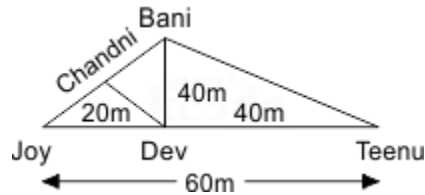
$$= 23.44 \text{ m}$$



Option D is hence the correct answer.

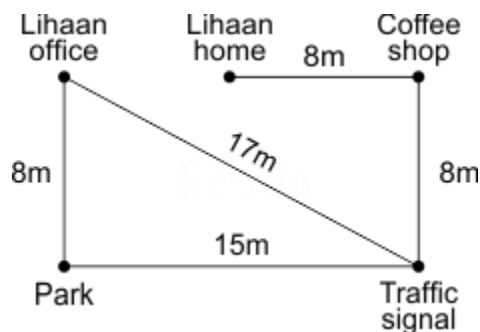
2. As per the diagram, the distance between Dev and Bani is 40 m while the distance between Dev and Teenu is also 40 m. Clearly, if we connect the points Bani, Dev and Teenu, they will form an isosceles triangle with angle BDT (Bani, Dev, Teenu) to be 90° .

Therefore, the angle BTD(Bani, Teenu, Dev) must be 45° .



Option B is hence the correct answer.

3. With the given information, following image can be drawn.

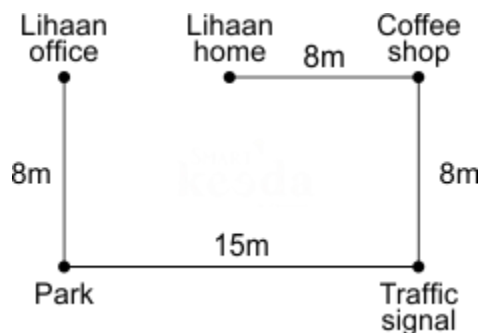


Shortest distance between Lihaan's office and Traffic signal =

$$\sqrt{8^2 + 15^2} = \sqrt{64 + 225} = \sqrt{289} = 17\text{m}$$

Hence, option C is correct.

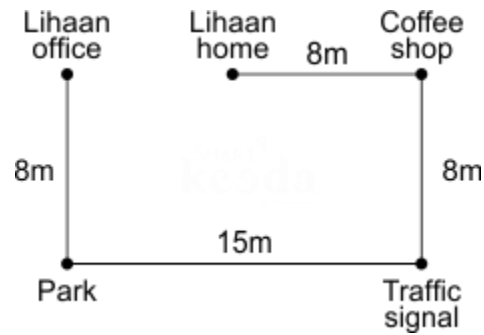
4. With the given information, following image can be drawn.



From the above image it is clear that Park is in south-west of Lihaan's home.

Hence option A is correct.

5. With the given information, following image can be drawn.

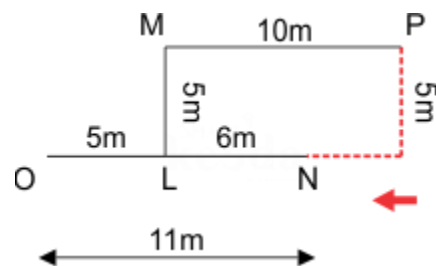


From the following image it is clear that the coffee shop is in the east direction from Lihaan's office.

The horizontal distance between them is $8+7 = 15$ m.

Hence, option A is the correct answer.

6. The following common explanation, we get "Person reaches point N as shown in fig".



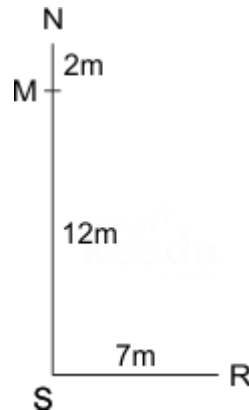
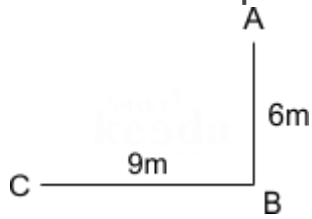
Hence, option C is correct.

7. The following common explanation, we get “10m”.

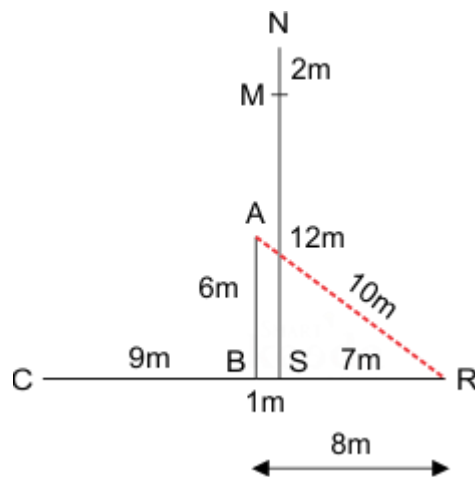
Point A is 6m north of point B. Point R is 7m east of point S.

Point C is 9m west of point B. Point S 12m south of point M.

Point N is 2m north of point M.



If point S is 1m east of point B then the distance between Point A and Point R is calculated

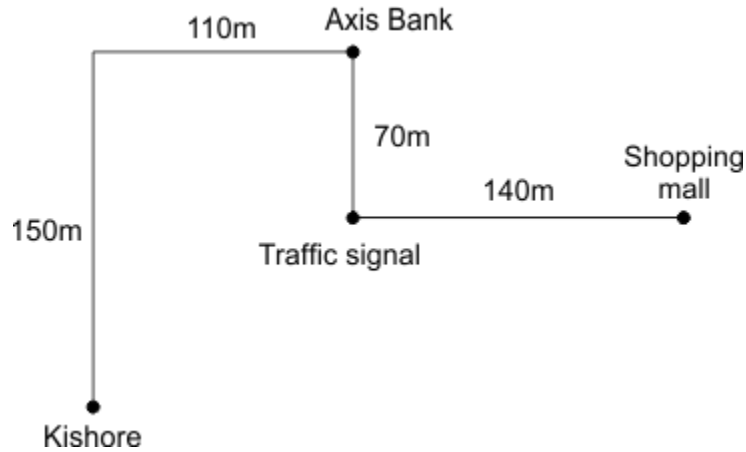


Calculation,

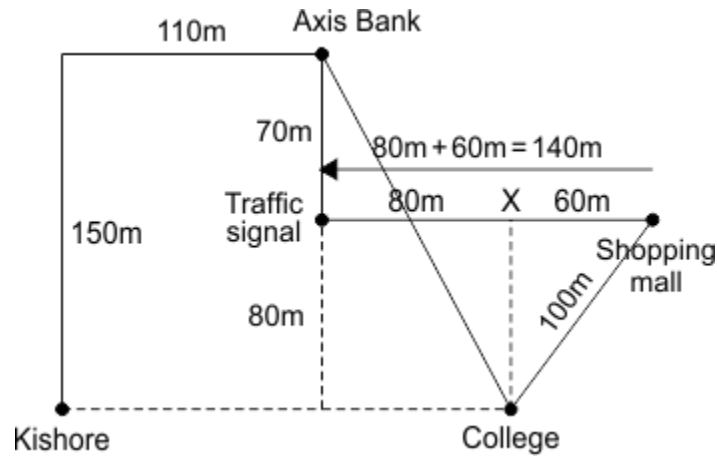
$$(AR)^2 = (AB)^2 + (BR)^2 = (6)^2 + (8)^2 \\ = 36 + 64 = 100m \text{ Then } AR = 10m$$

Hence, option C is correct.

8. **Note:** Colleges of both Kishore and Lokesh are in east direction with respect to their room.



Therefore, Kishore's college is exactly in the east direction of Kishore's room.



Let X be the point between Traffic signal & Shopping mall (not exactly.)

To find the shortest distance between X and shopping mall.

$$\sqrt{100^2 - 80^2} = \sqrt{10000 - 6400} = \sqrt{3600} = 60\text{m}$$

By this, we get to know that distance between the traffic signal and X = $140\text{m} - 60\text{m} = 80\text{m}$

To find the shortest distance between Axis bank and college

$$\sqrt{150^2 + 80^2} = \sqrt{22500 + 6400} = \sqrt{28900} = 170\text{ m}$$

Hence, option C is correct.

9. **Note:** Colleges of both Kishore and Lokesh are in east direction with respect to their room.

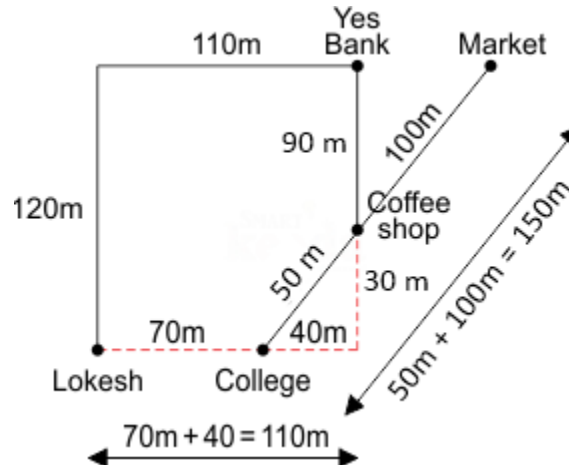
Therefore, Lokesh's college is exactly in the east direction of his room.

Now we know that Lokesh's college is in east direction with respect to Lokesh's room.

Using Pythagoras theorem, we get:

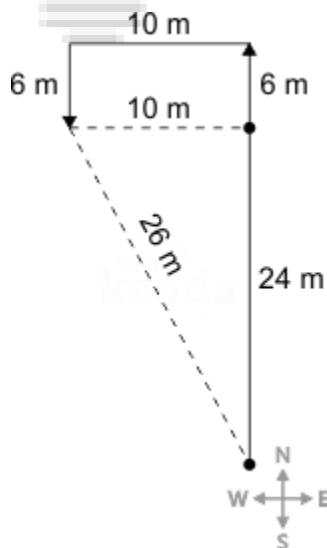
$$\sqrt{50^2 - 30^2} = \sqrt{2500 - 900} = \sqrt{1600} = 40 \text{ m}$$

From this, we'll calculate the shortest distance between Lokesh's room and college = $110\text{m} - 40\text{m} = 70\text{m}$



Hence, option B is correct.

10. Using the given information we can create a following diagram:



Applying the Pythagoras' theorem, we get

$$(\text{The shortest distance})^2 = 24^2 + 10^2 = 676$$

Therefore, the shortest distance = Under root of 676 = 26 m

In the above figure it is clear that the shortest distance is 26 m and the direction in which he is from the starting point is Northwest.

Hence, the correct answer is option B.



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