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Seating Arrangement Questions for IBPS RRB SCLAE-I Pre Exams.

Directions Sense Quiz 33

Directions: Read the instructions carefully and answer the following questions.

Aman, Pankaj and Milind are three friends studying in IIT Delhi. Aman starts walking from his house in north direction. After walking 120 m, he reached Teen Murti. Then he turns and walks for 40 m in north-east direction. Then he turns 90° clockwise directions and walks 30 m to reach Pankaj's house which is in the east of Teen Murti. Then from Pankaj's house both of them walk 130 m in straight line in south-east direction to reach Milind's house which is in east of Aman's house. Now three friends start walking in east for 150 m and reach their college.

1. What is the shortest distance between Teen Murti and Pankaj's house?

- A. 45 m B. 35 m C. 50 m D. 70 m E. 100 m

2. In which direction is IIT Delhi with respect to Teen Murti?

- A. South B. East C. Southeast D. Northeast E. None of these

3. What is the shortest distance between Aman's starting point and his college?

- A. 250 m B. 150 m C. 200 m D. 280 m E. None of these

4. In which direction is Pankaj's house with respect to his college?

- A. Southeast B. North C. Northwest D. Northeast E. None of these

5. If Cricket Academy is 20 m west of Aman's house, then Pankaj's house is in which direction with respect to Academy?

- A. Southeast B. North C. Northwest D. Northeast E. None of these



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Correct Answers:

1	2	3	4	5
C	C	A	C	D



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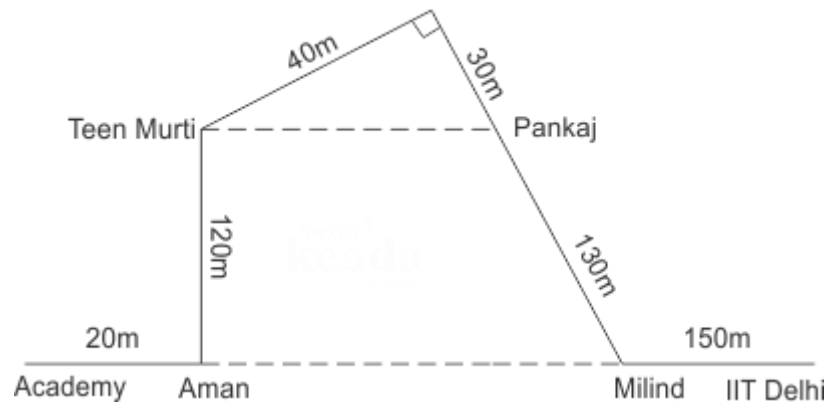
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Common Explanation:

Final arrangement:



References:

Aman starts walking from his house in north direction.

After walking 120 m, he reached Teen Murti. Then he turns and walks for 40 m in north-east direction.

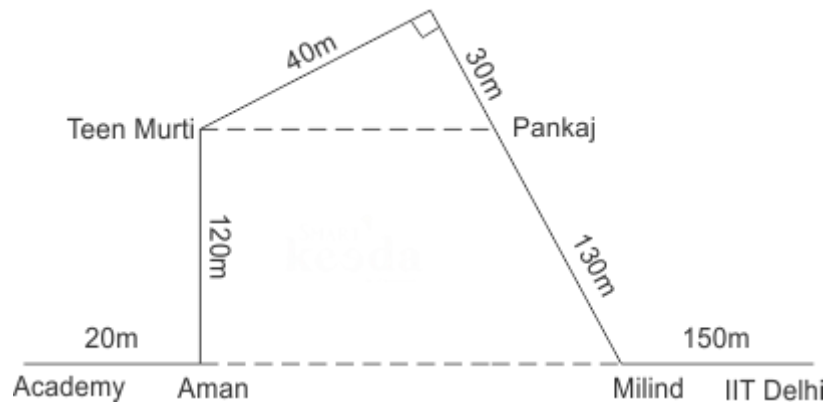
Then he turns 90° clockwise directions and walks 30 m to reach Pankaj's house which is in the east of Teen Murti.

Then from Pankaj's house both of them walk 130 m in straight line in south-east direction to reach Milind's house which is in east of Aman's house.

Now three friends start walking in east for 150 m and reach their college.

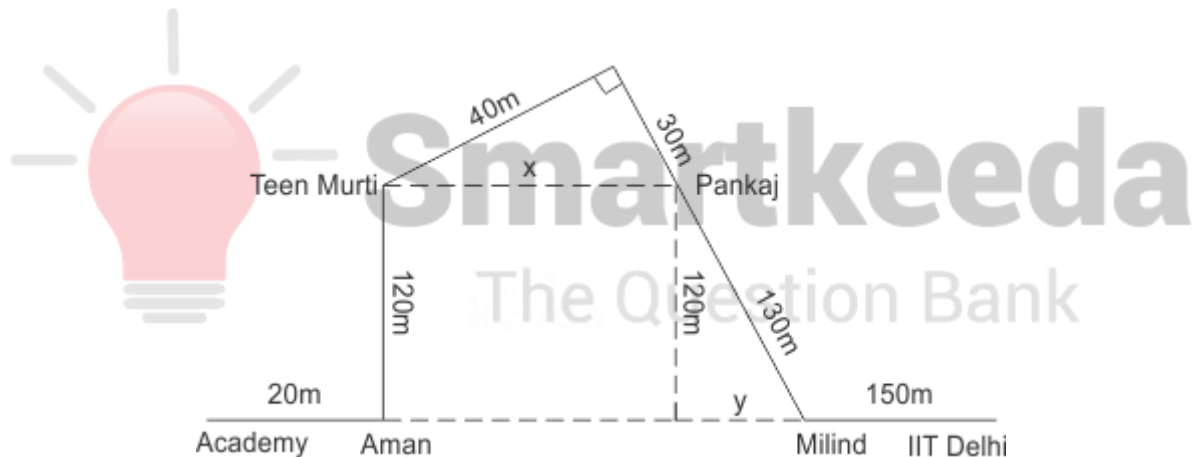
Inferences:

From above reference points we get the following diagram,



Answers :

1. From common explanation we get,



By Pythagoras theorem, Distance between Teen Murti and Pankaj's house,

$$x^2 = 30^2 + 40^2$$

$$x = 50 \text{ m}$$

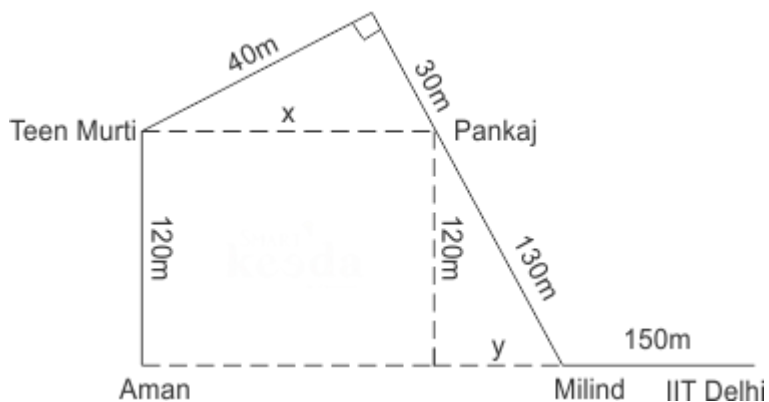
Hence, option (C) is correct.

2. From common explanation we get that,

IIT Delhi is in southeast direction with respect to Teen Murti.

Hence, option (C) is correct.

3. From common explanation and by Pythagoras theorem we get,



$$130^2 = 120^2 + y^2$$

$$y = 50 \text{ m}$$

So, the distance between Aman's house and his college is

$$x + y + 150 = 50 + 50 + 150 = 250 \text{ m}$$

Hence, option (A) is correct.

4. From common explanation we get that,

Pankaj's house is in northwest direction with respect to his college.

Hence, option (C) is correct.



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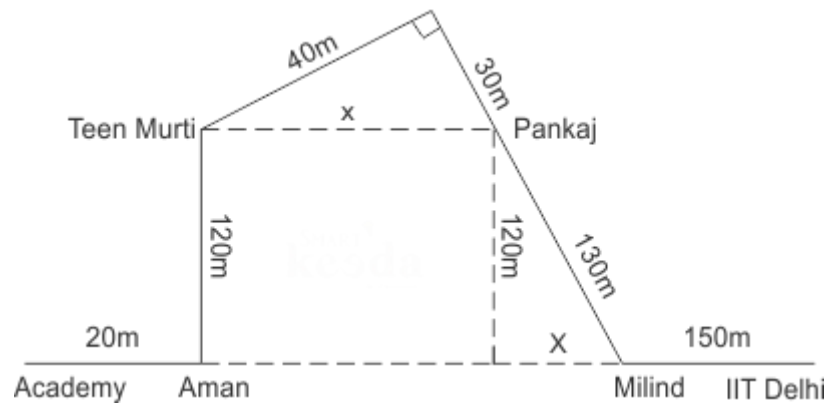
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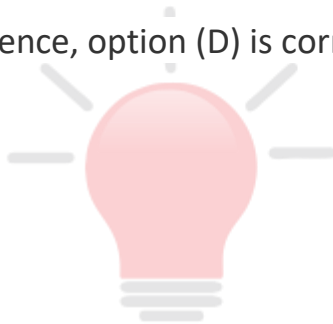


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5. From common explanation we get that,
Pankaj's house is in northeast direction with respect to Cricket Academy.



Hence, option (D) is correct.



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