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Directions Sense Questions for Canara Bank PO, IBPS PO Pre, IBPS SO Pre, IBPS Clerk, RRB Scale I Pre, SBI PO Pre, SBI Clerk and Syndicate Bank PO Exams

Directions Sense Quiz 20

Directions: Read the given information carefully and answer the questions given beside:

(for Q. 1-2)

A Car moves 8m from Point A in the north direction to reach Point B. Then it turns and moves for 10m in north-west direction. Then it turns and moves 8m in south direction. Then it turns right and moves for 3m to reach point C, which is in west direction with respect to Point B. Then finally, it turns and moves for 10m in south-west direction to reach Point D, which is west direction with respect to Point A.

1. What is the shortest distance between Point A and Point D?

- A. 12m B. 15m C. 17m
D. 20m E. Cannot be determined

2. What is the shortest distance between Point D and Point B?

- A. 12m B. 15m C. 17m
D. 20m E. Cannot be determined

(for Q. 3-6)

Metro train moved 12 km in north direction from NDLS to reach Patel Chowk. From there it took a right turn and moved 20 km to reach Udyog Bhawan. Then it moved 6km after taking a left turn and reached Central Sec. From there it again took a left turn and moved a distance of 8km to reach INA. Then it covered 13km in south direction to reach AIIMS. From there it took a right turn and moved 7km to reach Saket, where metro terminates.

7. Who is the immediate heaviest than the person who is standing north-east of Q2?

- A. U6 B. R3 C. P1
D. Q2 E. None of these

8. If U6 is not the second heaviest person, then what is the distance between P1 and the third heaviest person?

- A. 9m B. 8m C. $2\sqrt{13}$ m
D. 11m E. None of these

9. An airplane flew from IGI Airport and covered a distance of 25 km in north direction, then it turned towards right and moved for 12 km. Then it turned left and moved for 5 km and reached Jaipur Airport. From there it headed towards north-west direction and flew for 13 km to reach Lahore Airport. If Lahore Airport is in north of IGI Airport, then find the distance covered by airplane in north direction?

- A. 32 km B. 25 km C. 30 km
D. 45 km E. 35 km

10. Box B is in the north of Box C, which is in the north-east of Box D. Box E is in the east of Box D. Box A is in the west of Box F, which is in the north-east of Box B. Box E is in the middle of Box F and Box G. Find Box A is in which direction from Box D?

- A. North B. North-east C. South
D. North-west E. Can't be determined

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Correct answer:

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

Explanation:

Common explanation (for Q. 1-2):

References:

A Car moves 8m from Point A in the north direction to reach Point B.

Then it turns and moves for 10m in north-west direction.

Then it turns and moves 8m in south direction.

Then it turns right and moves for 3m to reach point C, which is in west direction with respect to Point B.

Inferences:

From above statements,

From 4th reference point, it is given that Point C is to west of Point B. By using this condition and above statements we get the following figure,

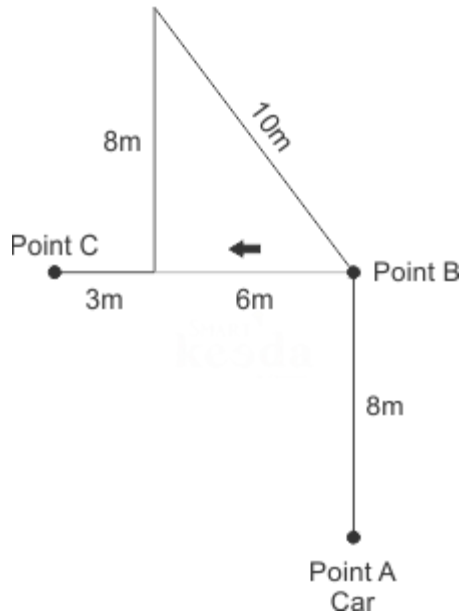
Note: The distance between Point C and Point B is calculated as follows,

The 2/3rd of the distance between Point C and Point B is,

$$\sqrt{10^2 - 8^2} = \sqrt{100 - 64} = \sqrt{36} = 6m$$

The 1/3rd of the distance between Point C and Point B is 3m

Total distance between Point C and Point B is $6m + 3m = 9m$



References:

Then finally, it turns and moves for 10m in south-west direction to reach Point D, which is west direction with respect to Point A.

Inferences:

From above statements,

It is given that Point D is to west of Point A. Also by using above information we get the final completed diagram as shown.

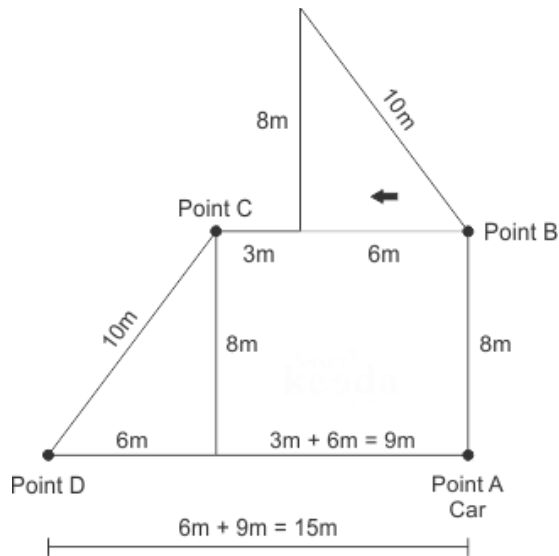
Note: The distance between Point D and Point A is calculated as follows,

The 2/5th of the distance between Point D and Point A is,

$$10^2 - 8^2 = \sqrt{100 - 64} = \sqrt{36} = 6m$$

The 3/5th of the distance between Point D and Point A is 9m.

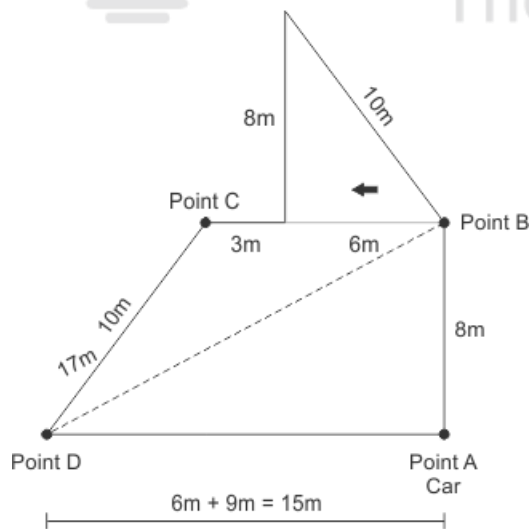
Total distance between Point D and Point A is $6m + 9m = 15m$



1. Following the common explanation, we get "From above figure, the shortest distance between Point A and Point D is 15m".

Hence, option B is correct.

2. Following the common explanation, we get "From above figure, the shortest distance between Point D and Point B is 17m".



To find the shortest distance between Point D and Point B

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

Hence, option C is correct.

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Common explanation (for Q. 3-6):

Reference:

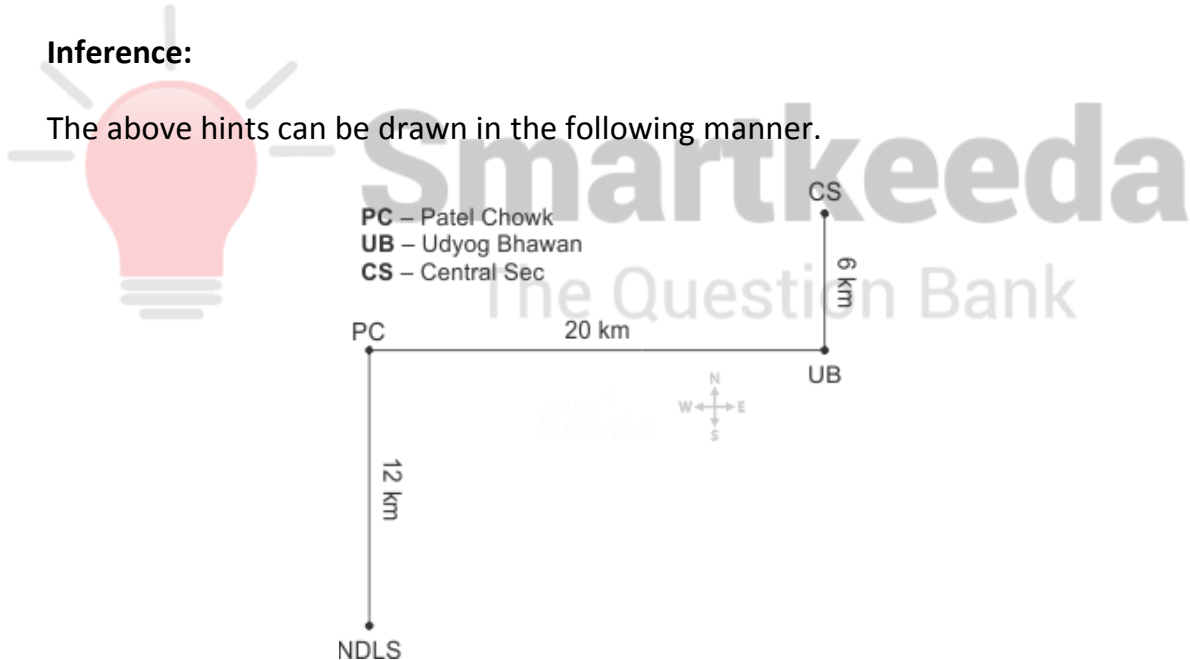
Metro train moved 12 km in north direction from NDLS to reach Patel Chowk.

From there it took a right turn and moved 20 km to reach Udyog Bhawan.

Then it moved 6km after taking a left turn and reached Central Sec.

Inference:

The above hints can be drawn in the following manner.



Reference:

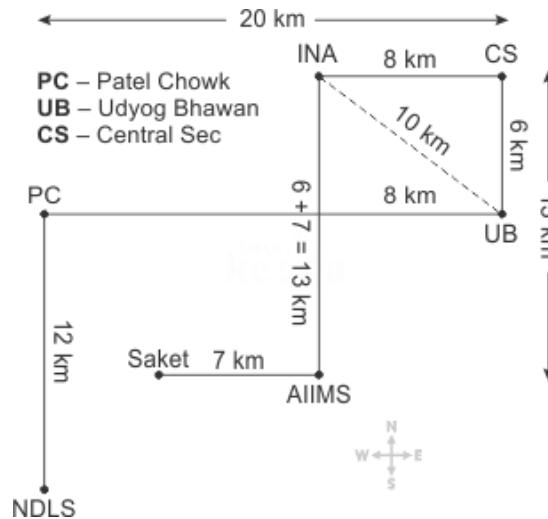
From there it again took a left turn and moved a distance of 8km to reach INA.

Then it covered 13km in south direction to reach AIIMS.

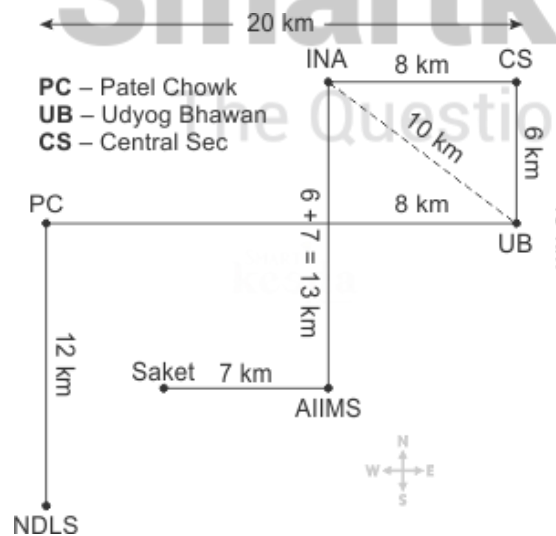
From there it took a right turn and moved 7km to reach Saket, where metro terminates.

Inference:

Following image can be prepared.



3. The shortest distance between Udyog Bhawan and INA is 10km. (Using Pythagoras theorem)



Hence option B is correct.

4. If Metro yard is 5km south of Saket then Patel chowk is 13km, north-west of Metro yard.

Hence option D is correct.

5. Central Sec, INA and Udyog Bhawan all are towards the north-east of Saket.

Hence option E is correct.

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Common explanation (for Q. 6-8):

References:

Six students namely P1, Q2, R3, S4, T5 and U6 are standing in different directions in a playground.

T5, who is 4m to the east of R3, is heavier than only two persons.

T5 is 6m north of U6.

P1, who is the heaviest among all, is standing 4m to the west of Q2.

Both R3 and U6, who is standing 5m northeast of S4, are heavier than the person who is standing nearest to R3.

S4 is 3m south of Q2.

P1, Q2 and U6 are horizontally in line.

Inferences:

From above statements,

Statements are taken to refer the direction of all students

T5 is 4m to the east of R3.

T5 is 6m north of U6.

P1 is standing 4m to the west of Q2.

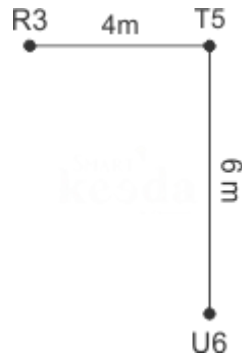
U6 is standing 5m northeast of S4.

S4 is 3m south of Q2.

P1, Q2 and U6 are horizontally in line.

T5 is 4m to the east of R3.

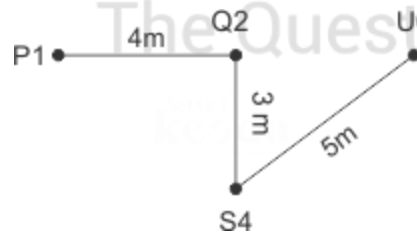
T5 is 6m north of U6.



P1 is standing 4m to the west of Q2.

U6 is standing 5m northeast of S4.

S4 is 3m south of Q2.

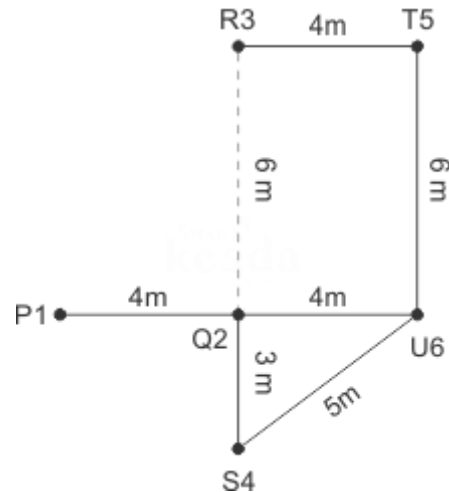


Now given, P1, Q2 and U6 are horizontally in line.

To find the distance between Q2 and U6:

$$\sqrt{5^2 - 3^2} = \sqrt{25 - 9} = \sqrt{16} = 4 \text{ m}$$

Therefore Q2 is standing 4m west to U6 and Q2 is 6m south to R3. By combining both directions we get the complete directions of all students as shown below.



References:

Each of these persons has different weight.

T5, who is 4m to the east of R3, is heavier than only two persons.

P1, who is the heaviest among all, is standing 4m to the west of Q2.

Q2 is lighter than T5 but not the lightest.

Both R3 and U6, who is standing 5m northeast of S4, are heavier than the person who is standing nearest to R3.

Inferences:

From above statements,

Statements are taken to refer the weight of all students

Let the position of heaviest to lightest person is numbered as 1 to 6.

Given, T5 is heavier than only two persons. Therefore T5 is the 4th heaviest person.

Given, P1 is the heaviest person.

Given, $Q2 < T5$ and Q2 is not the lightest person. Therefore Q2 is the 5th heaviest person.

Given, R3 and U6 are heavier than the person who is standing nearest to R3. From direction the nearest person to R3 is T5. Therefore R3 and U6 are heavier than T5 i.e. 2nd and 3rd heaviest persons (not in same order). Finally S4 is the lightest person among all students

By using above all information we get the complete arrangement is shown in decreasing order from left end.

Students	P1	R3/U6	U6/R3	T5	Q2	S4
Position	1	2	3	4	5	6

6. Following the common explanation, we get "9m".

From direction diagram, the distance between R3 and S4 (lightest person) is 9m ($6m + 3m = 9m$)

Hence, option B is correct.

7. Following the common explanation, we get "None of these".

From direction diagram, T5 is standing north-east of Q2.

Either R3 or U6 is the immediate heaviest person than T5. So either option A or B.

Hence, option E is correct.

8. Following the common explanation, we get "8m".

As per question, U6 is not the second heaviest person. Therefore R3 is the second heaviest person.

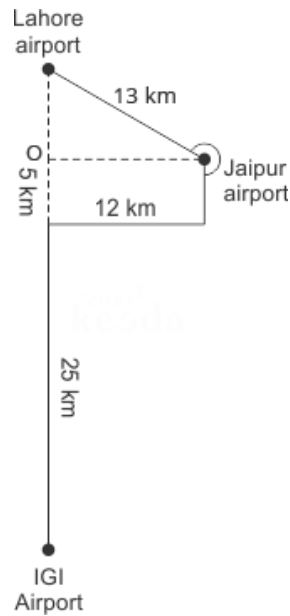
U6 is the third heaviest person

Students	P1	R3	U6	T5	Q2	S4
Position	1	2	3	4	5	6

From direction diagram, the distance between P1 and U6 (3rd heaviest person) is $4m + 4m = 8m$

Hence, option B is correct.

9. As per the given hints, following image can be drawn.



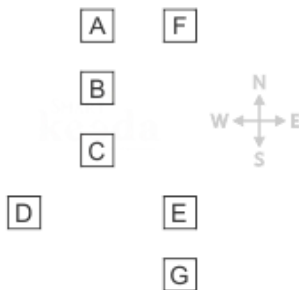
From the diagram, it's clear that the distance between point O and Lahore Airport = $\sqrt{13^2 - 12^2} = 5$

Therefore the straight distance (in north) from IGI to Lahore Airport = $25 + 5 + 5 = 35$ km

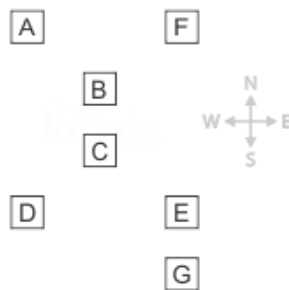
Hence option E is correct.

10. From the given hints, following three images can be drawn.

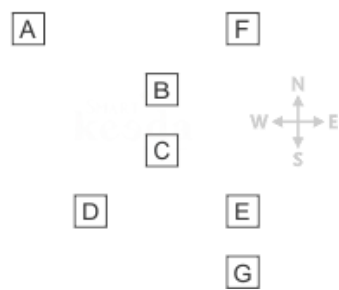
Case:1



Case:2



Case:3



We cannot determine whether A is in north or north-east or north-west of D.

Hence option E is correct.

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