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Directions sense questions for IBPS PO pre, IBPS SO pre, IBPS clerk, SBI PO pre and SBI clerk exams

DIRECTIONS SENSE 11

Directions: Study the following questions carefully and answer the questions given below.

Set-1

Ankush walked 50m towards north then turned left and walked 68m. He then turned to south and walked 22m then he took a left turn and walked 44m. After that he turned right and walked 18m and finally he turned left to and walked 48m.

(1). **What is shortest distance between starting and end point and in which direction is Ankush from the starting point?**
A. 30m, Northeast   B. 25m, Northwest   C. 26m, Southwest
D. 26 m, Northeast   E. 25 m, Southeast

(2). **What is the total distance travelled by Ankush in south direction during the entire journey?**
A. 22 m   B. 36 m   C. 40 m
D. 48 m   E. 54 m

Set-2

Anitha and Kathir are two friends studying in the XYZ Arts College. Anitha starts walking from her house in north direction. After walking 120m, she reached the Axis Bank. Then she turns and walks 40m in north-east direction. Then she turns 90 degree clock wise direction and walks 30m to reach Kathir's house which is in the east of the Axis Bank. Then from

Kathir's house both of them walk 130m in south-east direction to reach their college which is east of Anitha's house.

(3). What is the shortest distance between Anitha's House and XYZ Arts College?

A. 100m   B. 110m   C. 120m

D. 130m   E. Cannot be determined

(4). What is the shortest distance between Anitha's House and Kathir's House?

A. 120m   B. 130m   C. 150m

D. 160m   E. Cannot be determined

Set-3

Ankush went to the market to visit eight shops – Shop-1, Shop-2, Shop-3, Shop-4, Shop-5, Shop-6, Shop-7 and Shop-8, but not necessarily in the same order. He starts from Shop-1 and walks towards Shop-3 which is at distance of 24 m towards east. He then turns left and walks 16 m to reach Shop-5. Then he walks 57 m southwest to visit Shop-2, which is towards the south of Shop-1, crossing the path which goes through the midpoint of the line joining Shop-1 and Shop-3. After visiting Shop-2, he walked 40 m in east direction and reached Shop-7. He then walked 50 m left to reach Shop-8 and then walked 16 m right to reach Shop-4 and to reach the last shop he walked 35 m towards right.

(5). What is the shortest distance between Shop-3 and Shop 6?

A. 6√87 m   B. 12√10 m   C. 8√24 m

D. 4√77 m   E. 4√89 m

(6). What is the total distance travelled by Ankush in east direction?

A. 64 m   B. 60 m   C. 85 m

D. 80 m   E. Can't be determined

(7). What is the direction of Shop-8 with respect to Shop-5?

A. Southwest   B. Northeast   C. East

D. West   E. Southeast

(8). What is the direction of Shop-1 with respect to Shop-2 and the shortest distance between them?

A. Northeast, $7\sqrt{10}$ m   B. North, 35 m   C. Northwest, $7\sqrt{10}$ m

D. Northeast, 40 m   E. North, 39 m

Set-4

In an Audi showroom there are five cars namely Audi A3, Audi A4, Audi A8, Audi A6 and AudiQ7. The colors of the cars are Black, White, Pink, Grey, and Blue respectively. All the cars were parked in a showroom facing towards north direction.

Audi A3 car is parked 30m to the right of White color car.
Blue color car is parked 70m to the south of Audi A3 car.
Audi A8 car is parked 40m to the west of Audi A4 car.
Grey color car is parked 100m to the north of Blue color car.

(9). If a customer walks from Pink colored car, then see White colored car followed by Black, Blue and then grey colored cars. How many meters the customer walked, if he/she had walked straight distance through out the route?

A. 240m   B. 120m   C. 320m

D. 260m   E. 280m

(10). Which car is in the north-east of the car, which is to the left of Black colored car?

A. Audi A4 B. Audi A3 C. Audi Q7

D. Audi A6 E. Audi A8

Correct answers:

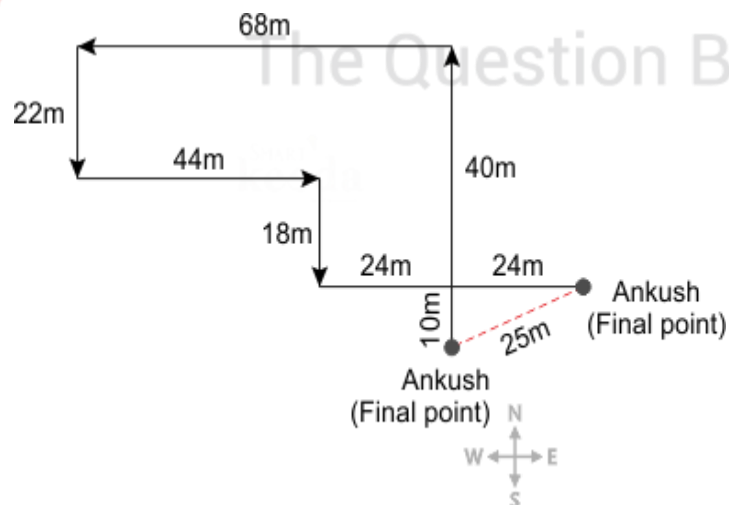| 1	2	3	4	5	6	7	8	9	10
D	C	A	B	E	D	E	B	A	D

Explanations:

Set-1

(1).

We have,

Ankush walked 50 m towards north then turned left and walked 68 m. He then turned to south and walked 22 m then he took a left turn and walked 44 m. After that he turned right and walked 18 m and finally he turned left to and walked 48 m.

Using the above information we can draw a following figure:

Here, the shortest distance of Ankush's starting point and final point is 26 m, and Ankush is in northeast direction with respect to his starting point.

Hence the correct answer is option **D**.

(2).

We have,

Ankush walked 50 m towards north then turned left and walked 68 m. He then turned to south and walked 22 m then he took a left turn and walked 44 m. After that he turned right and walked 18 m and finally he turned left to and walked 48 m.

Using the above information we can draw a following figure:
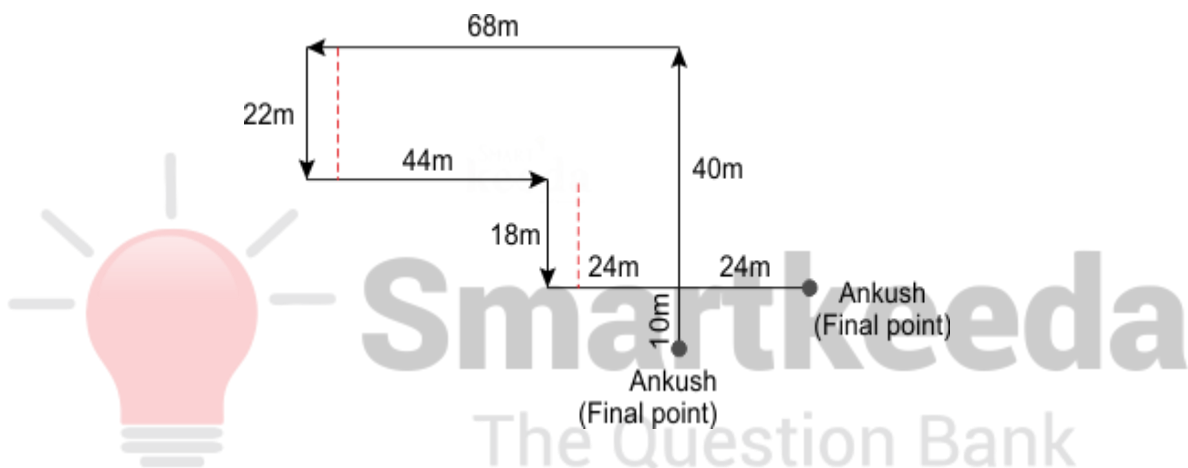
Here, the total distance travelled by Ankush in south direction during the entire journey is (22 + 18) m = 40 m.

Hence the correct answer is option **C**.

Set-2

Common Explanation

Shortest distance between Axis Bank and Kathir House

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

Let take point X, midpoint of Anitha House and XYZ Arts College.

We know distance between Anitha House and X is 50m.

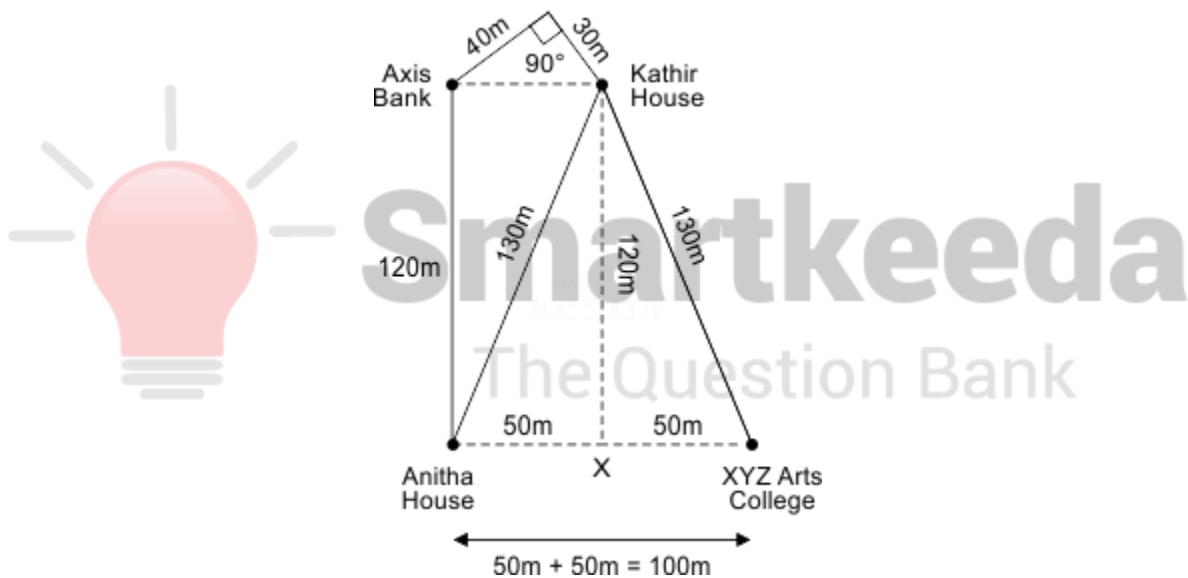Shortest distance between Anitha House and Kathir House

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

Shortest distance between X and XYZ Arts College

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

Distance between Anita House and XYZ Arts College.

50m + 50m =100m

 (3).

Following the common explanation, we get **"100m".**

Distance between Anita House and XYZ Arts College. *(Refer figure)*

50m + 50m =100m

Hence, option A is correct.

(4).

Following the common explanation, we get "**130m**".

To find shortest distance between Anitha House and Kathir House.
(Refer figure)
$$\sqrt{(120^2 + 50^2)} = \sqrt{(14400 + 2500)} = \sqrt{16900} = 130 \text{ m}$$
Hence, option B is correct.

Set-3

Common Explanation:

Reference:

He starts from Shop-1 and walks towards Shop-3 which is at distance of 24 m towards east. He then turns left and walks 16 m to reach Shop-5. Then he walks 57 m southwest to visit Shop-2, which is towards the south of Shop-1, crossing the path which goes through the midpoint of the line joining Shop-1 and Shop-3.

Inference:

After using the above hints, we can mark the position of Shop-1, Shop-2, Shop-3 and Shop-4 as:
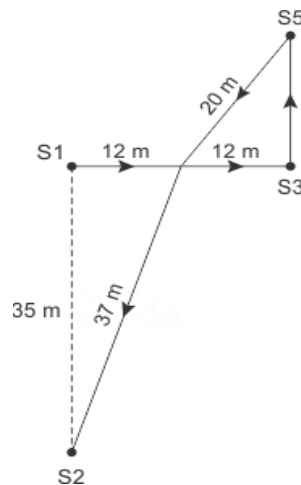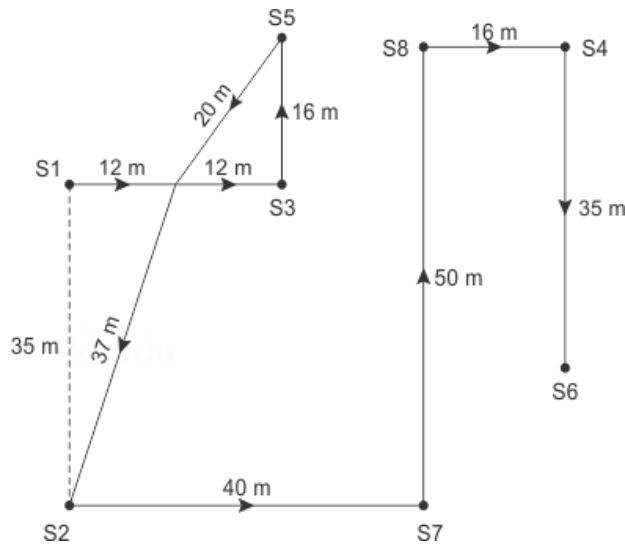
Reference:

After visiting Shop-2, he walked 40 m in east direction and reached Shop-7. He then walked 50 m left to reach Shop-8 and then walked 16 m right to reach Shop-4 and to reach the last shop he walked 35 m towards right.

Inference:

After using the given hints, the above figure can be redrawn as:
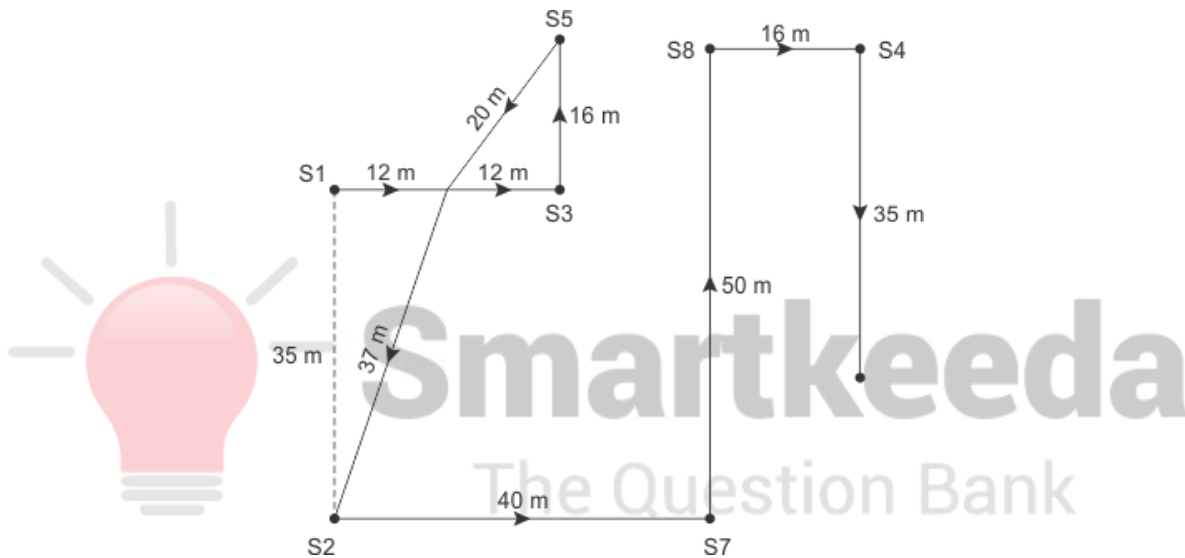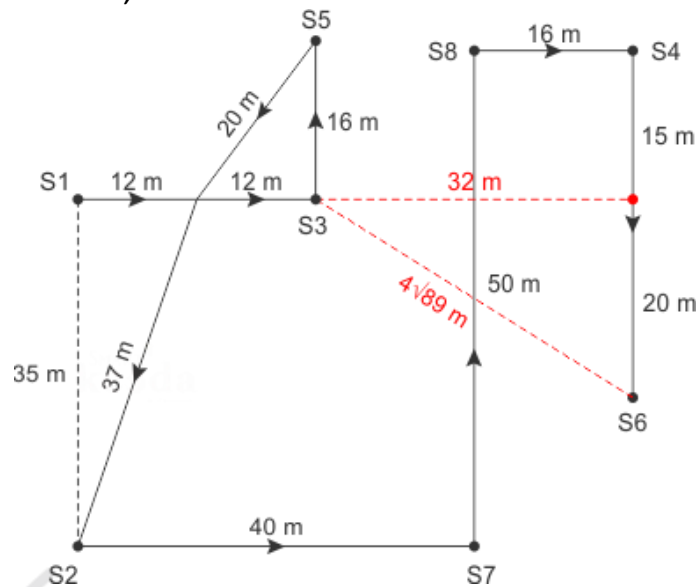

At this point, we can say that the shop Ankur visited at last was Shop-6.

(5).

From the final solution, we have:

Using, the Pythagoras theorem:

The shortest distance between Shop-3 and Shop 6 = $[(20)^2 + (32)^2]^{1/2}$

The shortest distance between Shop-3 and Shop 6 = $[1424]^{1/2}$ = **4√89 m**

Hence, the correct answer is option **E**.

(6).

Following the final solution, we can say that the total distance travelled by Ankush in east direction is (24 + 40 + 16) m = 80 m.

Hence, the correct answer is option **D**.

(7).

Following the final solution, we can say that Shop-8 is in southeast direction with respect to Shop-5.

Hence, the correct answer is option **E**.

(8).

Following the final solution, we can say that Shop-1 is in north direction with respect to Shop-2 and the shortest distance between them is 35 m. Hence, the correct answer is option **B**.

Set-4

Common Explanation

References

In an Audi showroom there are five cars namely Audi A3, Audi A4, Audi A8, Audi A6 and AudiQ7.

The colors of the cars are Black, White, Pink, Grey, and Blue respectively.

Audi A3 car is parked 30m to the right of White color car.

Blue color car is parked 70m to the south of Audi A3 car.

Audi A8 car is parked 40m to the west of Audi A4 car.

Grey color car is parked 100m to the north of Blue color car.

Inferences

From above statements,

Cars	Color
Audi A3	Black
Audi A4	White
Audi A8	Pink
Audi A6	Grey
AudiQ7	Blue

- Audi A3 [Black] car is parked 30m to the right of White [Audi A4] color car.

- Blue [Audi Q7] color car is parked 70m to the south of Audi A3 [Black] car.

- Audi A8 [Pink] car is parked 40m to the west of Audi A4 [White] car.

- Grey [Audi A6] color car is parked 100m to the north of Blue [Audi Q7] color car.

By using above information,
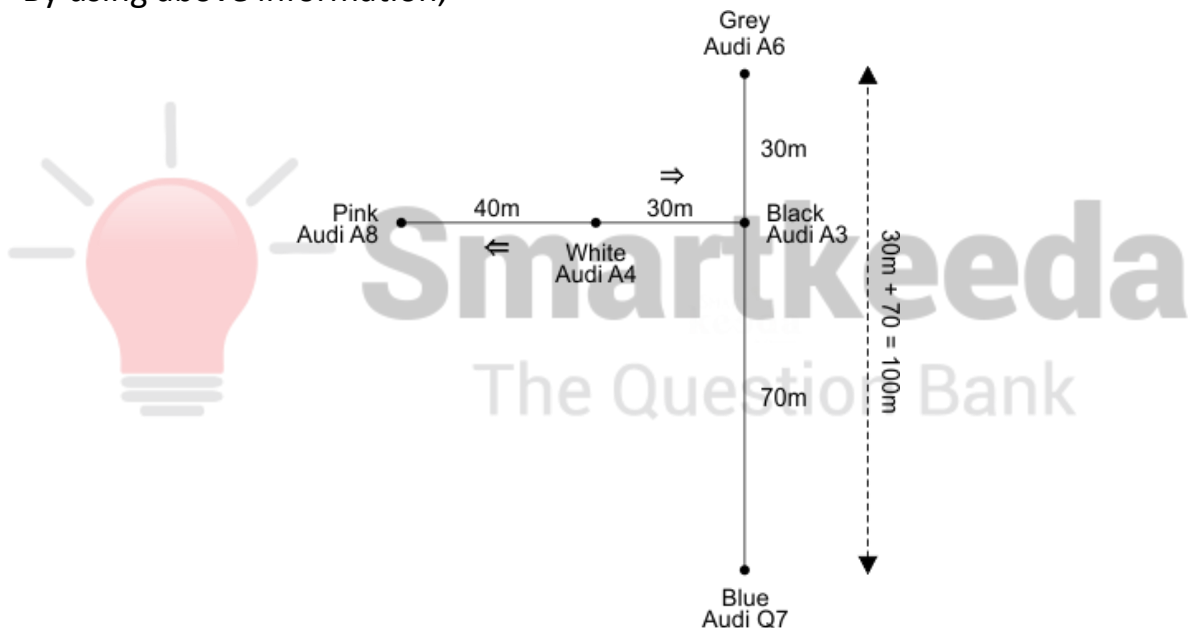
(9).

The following common explanation, we get **"240m".**
From figure, Pink to white = 40m, White to Black = 30m, Black to Blue = 70m & Blue to Grey = 100m

Sum = 40m + 30m + 70m + 100m = 240m

Hence, option A is correct.

(10).

The following common explanation, we get **"Audi-A6, Grey colored car".**

Left of Black [Audi A3] colored car is White [Audi A4] & Pink colored [Audi A8].

North-east of both White [Audi A4] & Pink [Audi A8] is Audi-A6, Grey colored car.

Hence, option D is correct.