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Directions Sense Questions for IBPS RRB SCLAE-I (Mains) Exams.

Directions Sense Quiz 35

Directions (1-3): Study the following information carefully and answer the questions given below,

If,

A % B (10 m) means A is 15 m north of B

A @ B (13 m) means A is 18 m south of B

A * B (26 m) means A is 31 m east of B

A & B (30 m) means A is 35 m west of B

If,

A * B (10 m), G % F (15 m), E @ D (15 m), C @ B (5 m), E & F (30 m), C * D (5 m), H & G (5 m)

1. What is the shortest distance between A and H?

- A. 20 m B. 15 m C. 10 m D. 25 m E. None of these

2. What is the position of H with respect to E?

- A. Southwest B. South C. North D. Northeast E. None of these

3. What is the position of G with respect to C?

- A. East B. North C. Northeast D. West E. None of these

Directions (4-6): Study the following passage carefully and answer the question given below it.

Two cars, car 1 and car 2 start moving from point A in opposite direction. Car 1 covers 20 m distance in the west direction while car 2 covers 30 m distance in the east direction. Then both the cars make 90° turn in clockwise direction and cover 40 m distance. Now, each car takes left turn and again covers 40 m distance. Finally, car 1 covers 80 m distance in south direction while car 2 covers 80 m distance in north direction.



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4. What is the shortest distance between the final positions of car 1 and car 2?

- A. $100\sqrt{233}$ m B. $10\sqrt{133}$ m C. $10\sqrt{233}$ m D. $10\sqrt{89}$ m E. None of these

5. If car 3 is standing 40 m south of point A, then what is the shortest distance between the final position of car 2 and the point where car 3 is standing?

- A. $100\sqrt{223}$ B. $100\sqrt{113}$ C. $10\sqrt{223}$ D. $10\sqrt{113}$ E. None of these

6. In which direction is car 2 (at its final position) with respect to the point when car 1 completed 40 m after taking first right turn?

- A. East B. North C. Northeast D. West E. None of these

Directions (7-9): Directions: Study the following information carefully and answer the questions given below,

If,

P % T (9 m) means P is 3 m north of T

P @ T (4 m) means P is 2 m south of T

P * T (16 m) means P is 4 m east of T

P & T (1 m) means P is 1 m west of T

If,

G @ H (100 m), E % F (100 m), C * B (100 m), D & E (400 m), D @ C (225 m), A % B (225 m), B % G & F

7. What is the shortest distance between H and C?

- A. 17 m B. $13\sqrt{5}$ m C. $5\sqrt{13}$ m D. 25 m E. None of these

8. What is the position of A with respect to G?

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

9. What is the position of H with respect to E and how far is H from E?

- A. West, 20 m B. North, 20 m C. South, 30 m D. East, 30 m E. None of these



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10. Sreya was standing at a traffic signal and wanted to go to Park 'D'. She walked 10km in east direction to reach Park 'A', then took a right turn and walked for 3km to reach Park 'B'. From there she moved to her right and walked 6km then took a left turn and walked 5km to reach Park 'C'. After taking a right turn she walked for 3km and reached Park 'D'.

Find the shortest distance between Park 'C' and Park 'A' and in which direction is Sreya finally from Park 'A'?

- A. 15 km, Southeast B. 10 km, Southwest C. 17 km, Southwest D. 9 km, Southeast E. None of these



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Correct Answers:

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



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Common Explanation(1-3):

Inferences:

From above we get the following diagram directions,

A * B (10 m) → A is 15 m east of B

G % F (15 m) → G is 20 m north of F

E @ D (15 m) → E is 20 m south of D

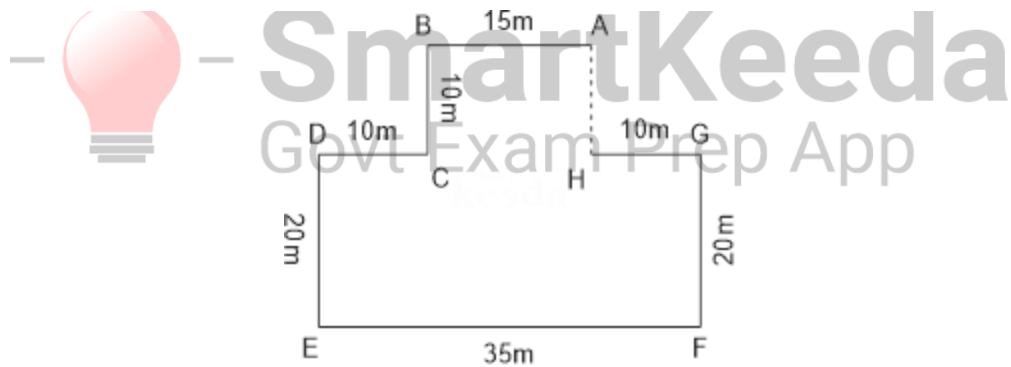
C @ B (5 m) → C is 10 m south of B

E & F (30 m) → E is 35 m west of F

C * D (5 m) → C is 10 m east of D

H & G (5 m) → H is 10 m west of G

We get the following diagram,



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Answers :

1. From common explanation we get,
The shortest distance between A and H,
= 10 m
Hence, option C is correct.
2. From common explanation we get that,
H is in northeast direction with respect to E.
Hence, option D is correct.
3. From common explanation we get,
G is towards the east of C.
Hence, option A is correct.

Common Explanation (4-6):

References:

Two cars, car 1 and car 2 start moving from point A in opposite direction.

Car 1 covers 20 m distance in the west direction while car 2 covers 30 m distance in the east direction.

Then both the cars make 90° turn in clockwise direction and cover 40 m distance.

Now, each car takes left turn and again covers 40 m distance.

Finally, car 1 covers 80 m distance in south direction while car 2 covers 80 m distance in north direction.

Inferences:

From above reference points we get the following diagram,



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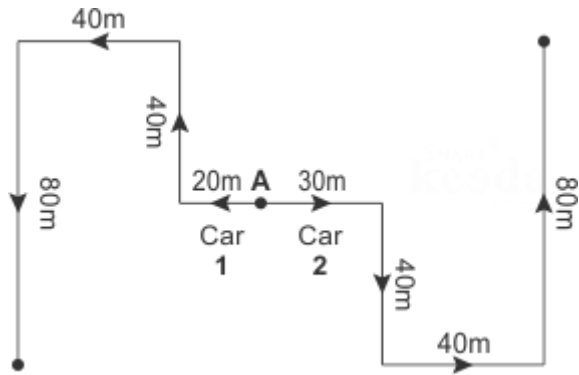
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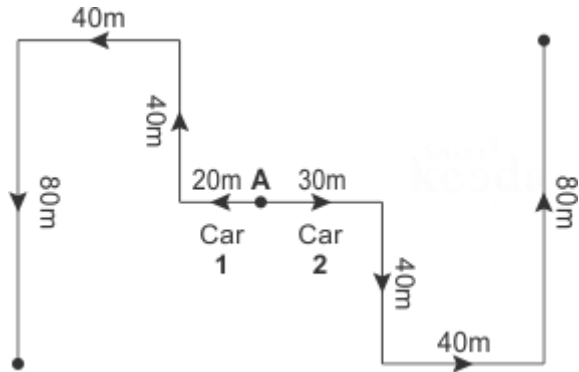


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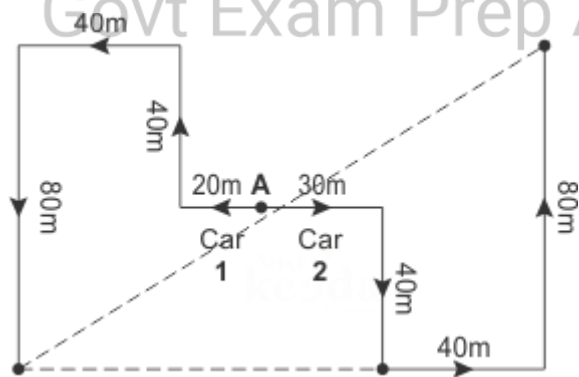
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Final arrangement:



4. From common explanation we get,



It is clear from diagram that the base of the triangle is

$$40 + 20 + 30 + 40 = 130 \text{ m}$$

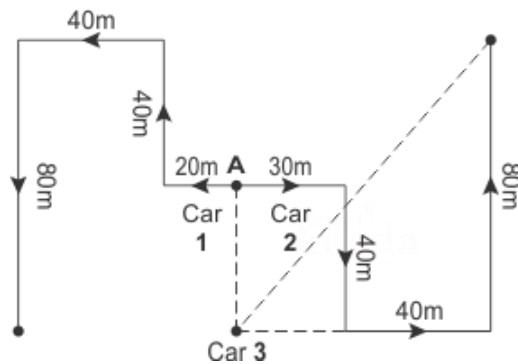
By Pythagoras theorem, the shortest distance between their final positions is,

$$= 80^2 + 130^2$$

$$= 10\sqrt{233}$$

Hence, option C is correct.

5. From common explanation we get that,



The base of the above triangle is,

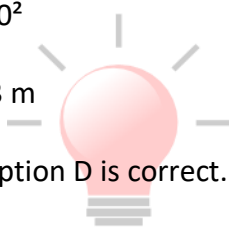
$$= 30 + 40 = 70 \text{ m}$$

By Pythagoras theorem, the shortest distance between the point where car 3 is standing and the final position of car 2 is,

$$= 80^2 + 70^2$$

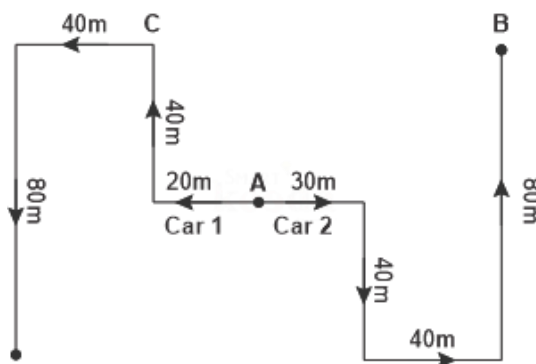
$$= 10\sqrt{113} \text{ m}$$

Hence, option D is correct.



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6. From common explanation we get,



Point B denotes the final position of car 2.

Point C denotes the point when car 1 completed 40 m after taking first right turn.

So, it is clear that car 2 (at point B) is in east direction with respect to car 1 (at point C).

Hence, option A is correct.

Common Explanation (7-9):

Inferences:

The real distance between two points is the square root of the number given in brackets.

From above we get the following diagram directions,

G @ H (100 m) → G is 10 m south of H

E % F (100 m) → E is 10 m north of F

C * B (100 m) → C is 10 m east of B

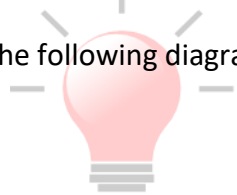
D & E (400 m) → D is 20 m west of E

D @ C (225 m) → D is 15 m south of C

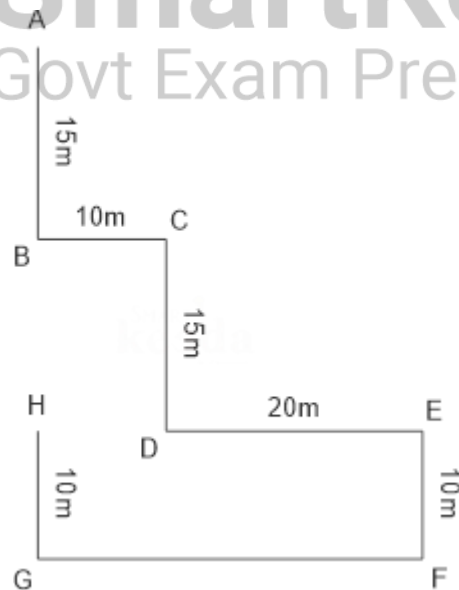
A % B (225 m) → A is 15 north of B

B % G & F → B is north of G, which is west of F

We get the following diagram,



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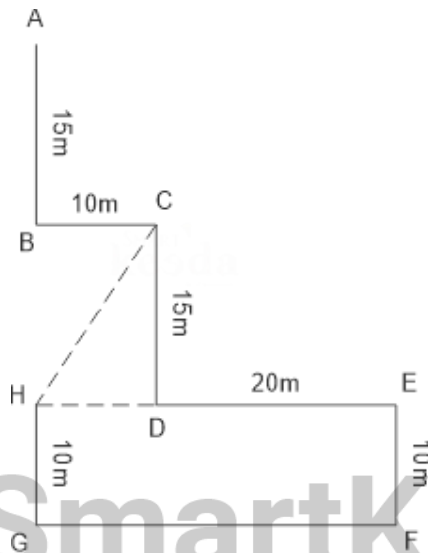
7. From common explanation and using Pythagoras theorem we get,

The shortest distance between C and H,

$$CH^2 = HD^2 + CD^2$$

$$CH^2 = 10^2 + 15^2$$

$$CH = \sqrt{325} = 5\sqrt{13} \text{ m}$$



Hence, option C is correct.

8. From common explanation we get that,

A is towards the north of G.

Hence, option D is correct.

9. From common explanation we get,

H is 30 m west of E.

Hence, option E is correct.



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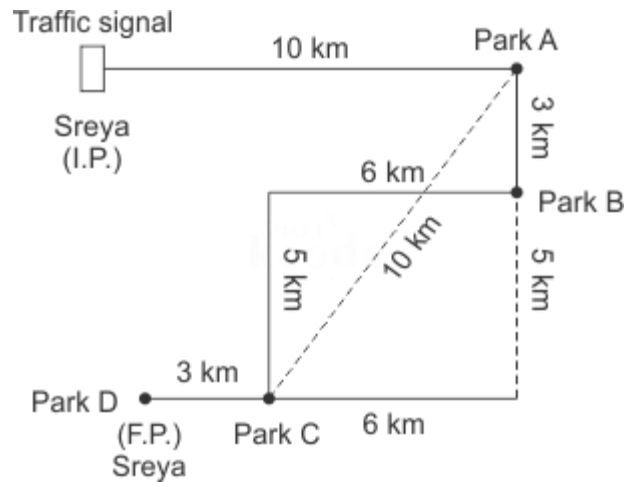
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10. From the following image it is clear that the shortest distance between Park 'C' and Park 'A' is 10 km and finally Sreya is in southwest of Park 'A'.

Hence option B is correct.



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