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Direction Sense Quiz 8

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

1. Two cars A and B, which are 500 km apart, start moving towards each other on a straight road at a certain point of time. The speed of car A is 57 km/hr and that of car B is 40 km/hr. After first hour car A which is moving from west to east takes a left turn, runs for 40 minutes and reaches point K whereas the other car which was moving from east to west, keeps running on the road till 1.5 hours and then takes a left turn, runs for half an hour and reaches point L. What is the difference between the vertical and horizontal distances between the two points K and L?

- A. 383 Km B. 325 Km C. 357 Km D. Can't be determined
E. None of these

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

Some boys are sitting in three rows and the distance between each row is 4 m. All of them are facing north such that Damu is in the middle row, Kanu is 6 m to the right of Damu but in the same row. Neer is just behind Kanu while Golu is in the North of Damu

2. What is the shortest distance between Neer and Golu?

- A. $6\sqrt{3}$ m B. $8\sqrt{7}$ m C. 10 m D. 2 m E. None of these

3. Kanu is in which direction with respect to Golu?

- A. North B. East C. West D. Northwest E. Southeast

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

'A%B' means 'A is south of B', 'A\$B' means 'B is west of A', 'A@B' means 'A is east of B'

'A&B' means 'B is north of A'

(Consider Distance between all the elements is equal)

4. In the given expression 'I%K&T%U&B\$A@Z' what is the direction of T with respect to A?

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

5. Which of the following expressions states that "Z is to the east of Y?"

- A. Z%S@P%Y\$Q\$U B. Q@S@Z%P\$Y\$U C. P&Z\$Q&U\$S%Y D. Z%Q@S%P\$Y\$U E. None of these

6. Which of the following symbols will come in place of question mark (?) in the following expression to make the inference "D is south of O" definitely true?

N@D&L?W\$H%O

- A. % B. & C. \$ D. Either % or & E. None of these

7. Rahul walks 8m to the west from point A and reaches at Ice cream parlour, from there he turns left and walks for 4 m to reach theatre. Then he takes a right turn and walks a distance of 5m to reach mall. From there he again takes a right turn and walks for 12 m to reach Restaurant and stopped there.

Find how far and in which direction is the restaurant from the theatre?

- A. 12m, South-east B. 13m, North-west C. 13m, South-west D. 15m, North-east E. None of these

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

Ramavtar gets confused with left-right moves and always takes the opposite direction.

Recently he plans to watch the movie 'Avengers' at Sarv Multiplex in his city. The directions irrespective of checkpoints that he follows from his home to the multiplex are mentioned in the following note:

1. Walk 100 m to the north and you reach Suresh Chand Saree Store. Take a left turn from here.
2. Walk 40 m straight from the previous point and you reach RBS Degree College. Take a right turn from here.
3. Walk 80 m straight from the previous point and you reach Khandari crossing. Take a right turn again from here.
4. Walk 20 m straight from the previous point and you reach Sarv Multiplex.

8. How far and in which direction is the end point of Ramavtar from the multiplex?

- A. 15m, east B. 40m, east C. 20m, east D. 40m, west E. None of these

9. If Ramavtar mistakenly reads 'right turn' as 'left turn' given in the 3rd reference point in the note he has, how far will he be from the Sarv Multiplex after walking the final distance of 20 m?

- A. 40m B. 60m C. 80m D. 100m E. None of these

10. What is the shortest distance between Ramavtar's end point and RBS degree college?

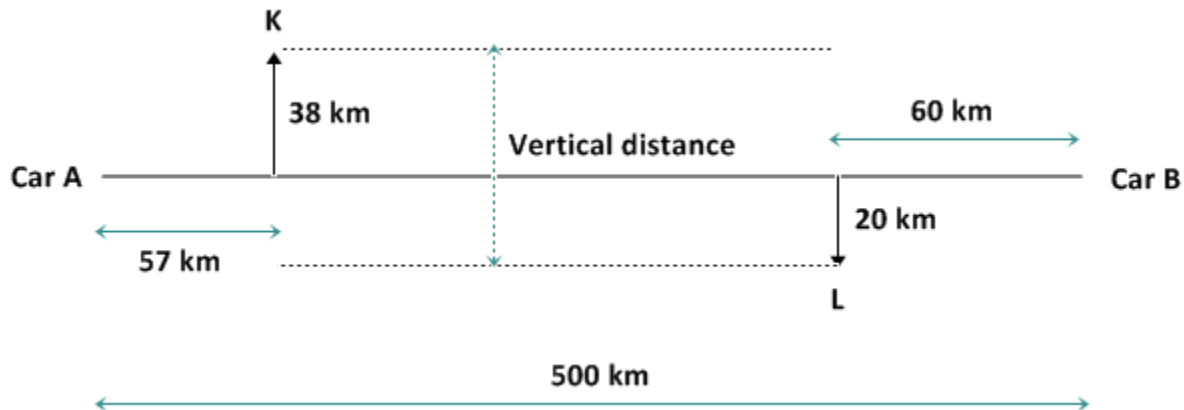
- A. 85m B. 100m C. 120m D. 170m E. None of these

Correct Answers:

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

Explanations:

1.



Distance covered by car P in 1 hour = 57 Km

Distance covered by car Q in 1.5 hours = 60 Km

Therefore, horizontal distance between points K and L = $500 - (57 + 60) = 383$ Km

Distance covered by car P towards north = $57 \times (2/3) = 38$ Km

Distance covered by car Q towards south = $40 \times (1/2) = 20$ Km

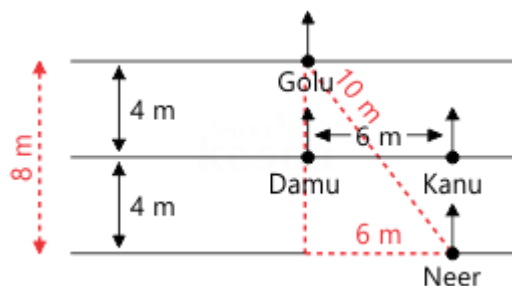
Therefore, vertical distance between points K and L = $38 + 20 = 58$ Km

Hence, the required difference = $383 - 58 = 325$ Km

Option B is hence the correct answer.

2. From the following figure we made using the given information we can say that the shortest distance between Neer and Golu is 10 m.

Hence, the correct answer is option C.



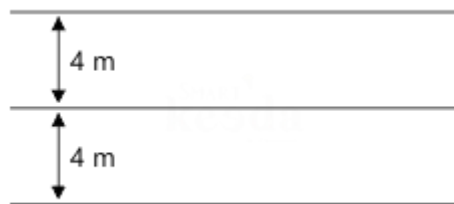
Common Explanation:

Reference:

Some boys are sitting in three rows and the distance between each row is 4 m.

Inference:

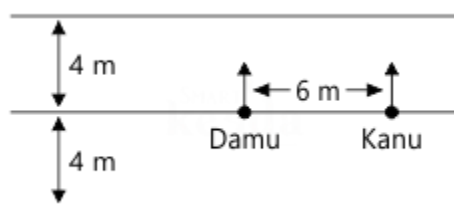
Using the above hints we can make a rough sketch of the three rows.

**Reference:**

All of them are facing north such that Damu is in the middle row Kanu is 6 m to the right of Damu but in the same row.

Inference:

With the help of above hints we can place of Damu and Kanu in the middle row facing north.



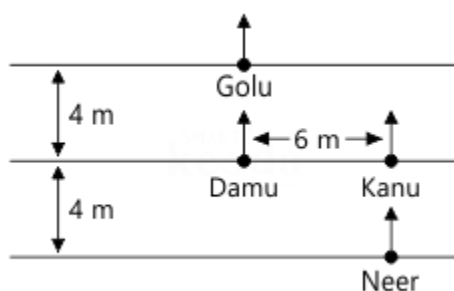
Here we will make a mental note of the information that all the persons were facing north.

Reference:

Neer is just behind Kanu while Golu is in the North of Damu.

Inference:

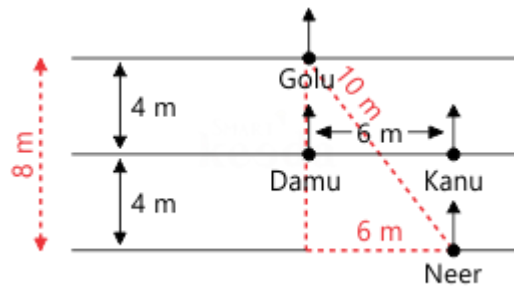
Using the above hints we can fix the position of Neer and Golu easily.



We can clearly observe that driver should take the car to the east to bring her back.
Hence, option B is correct.

3. From the following figure we made using the given information we can say that Kanu is in southeast direction with respect to Golu.

Hence, the correct answer is option E.



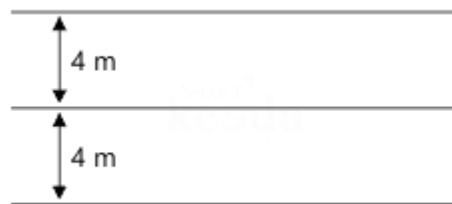
Common Explanation:

Reference:

Some boys are sitting in three rows and the distance between each row is 4 m.

Inference:

Using the above hints we can make a rough sketch of the three rows.

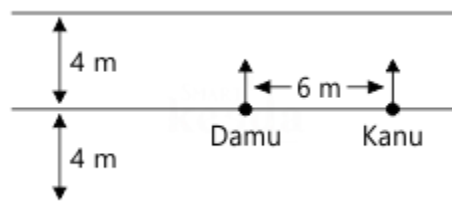


Reference:

All of them are facing north such that Damu is in the middle row Kanu is 6 m to the right of Damu but in the same row.

Inference:

With the help of above hints we can place of Damu and Kanu in the middle row facing north.



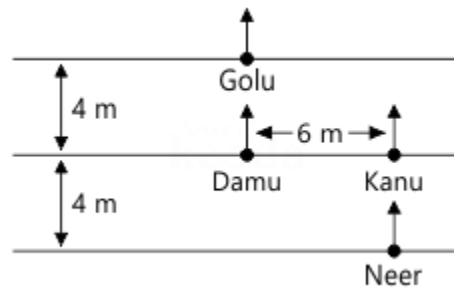
Here we will make a mental note of the information that all the persons were facing north.

Reference:

Neer is just behind Kanu while Golu is in the North of Damu.

Inference:

Using the above hints we can fix the position of Neer and Golu easily.



Applying the Pythagoras theorem, we get

$$\text{Distance between the house and the church} = \sqrt{30^2 + 40^2}$$

$$= \sqrt{900 + 1600} = \sqrt{2500} = 50 \text{ m}$$

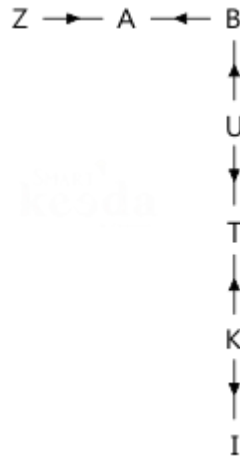
$$\text{Now, the distance between the temple and the gym} = 50^2 + 50^2$$

$$= 50\sqrt{2} \text{ m}$$

$$\text{Therefore, the required difference} = 50 (\sqrt{2} - 1) = 50 \times 0.414 = 20.7 \text{ m}$$

Clearly, option A is the correct answer.

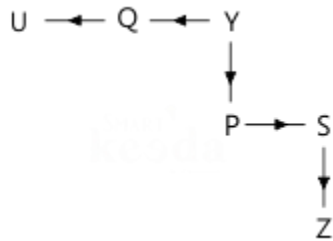
4.



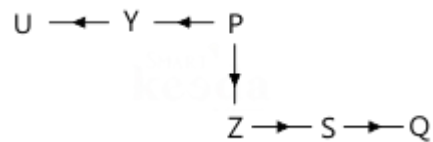
Given: all distance are equal.

Hence, option C is correct.

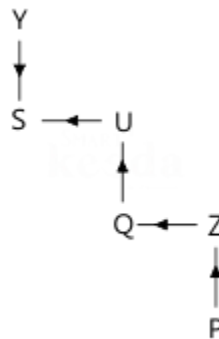
5. Option (A)



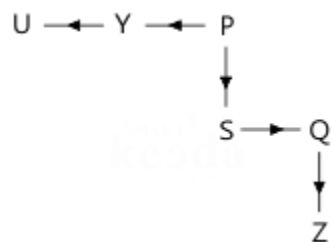
Option (B)



Option (C)



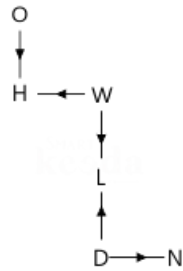
Option (D)



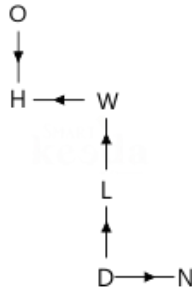
In all 4 options Z is South-East of Y and not towards the East of Y.

Hence, option E is correct.

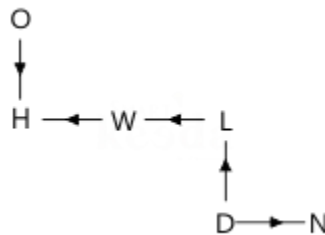
6. Option (A)



Option (B)

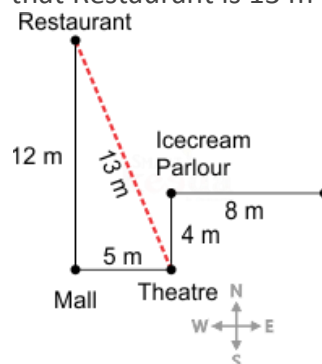


Option (C)



All the three symbols gives, D is south east of O.
Hence, option E is correct.

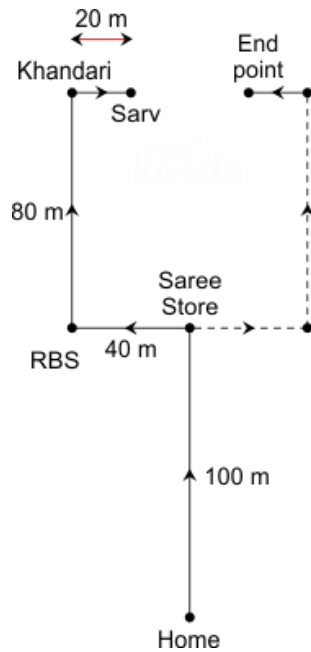
7. From the following image it is clear that Restaurant is 13 m to the north-west of theatre.



Using Pythagoras theorem,
 $= \sqrt{12^2 + 5^2} = \sqrt{144 + 25}$
 $= \sqrt{169}$
 $= 13$

Hence option B is correct.

8.

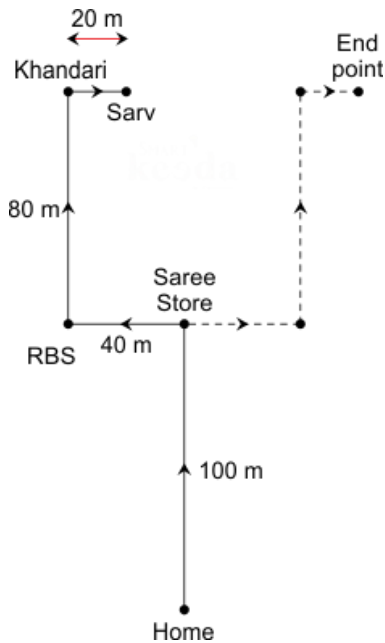


From the diagram above, we can observe that when Ramavtar reaches the end point his distance from Sarv Multiplex is $\{80 - (20 + 20)\} = 40$ m

And the end point is in east direction from Sarv Multiplex.

Hence, option B is the correct answer.

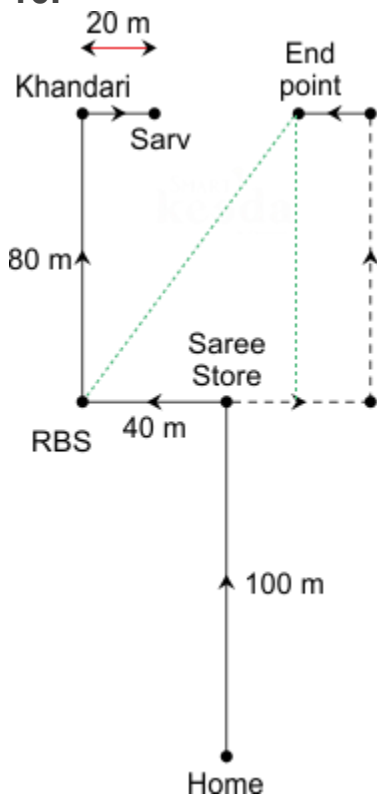
9.



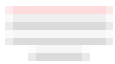
Following the diagram above, we can observe that the distance between Sarv Multiplex and the end point now is 80 m.

Hence, option C is the correct answer.

10.



The distance between the end point and RBS college = $80^2 + 60^2 = 100\text{m}$
Clarify, option B is the correct answer.



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