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Directions Sense Questions for CGL Tier 1 & SSC 10+2

Directions Sense Quiz 1

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

1. If you are facing north-east and move 10 m forward, turn left and move 7.5 m, then you are

- A. north of your initial position
- B. south of you initial position
- C. 12.5 m from the initial position
- D. Both A and C

2. One day Ravi left home and cycled 10 km south wards, turned right and cycled 5 km and turned right and cycled 10 km and turned left and cycled 10 km. how many kilometers will he have to cycle to reach his home straight ?

- A. 10 km
- B. 15 km
- C. 20 km
- D. 25 km

3. Kunal walks 10 km towards North. From there he walks 6 km towards South. Then, he walks 3 km towards East. How far and in which direction is he with reference to his starting point?

- A. 5 km West
- B. 7 km West
- C. 7 km East
- D. 5 km North-east

4. Tina drives 45 kms towards East, turns right and drives 65 kms, then turns left and drives 33 kms. In which direction is she facing now?

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

5. A man walks 15 metres south. Then turning to his right he walks 15 metres. Then turning to his left, he walks 10 metres. Again turns to his left and walks 15 metres. How far is he from his initial position?

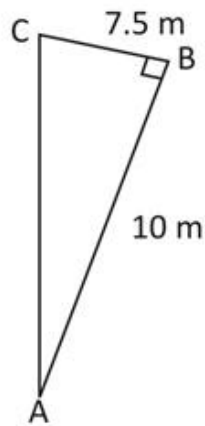
- A. 10 m
- B. 25 m
- C. 15 m
- D. 60 m

Correct Answers:

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

Explanations:

1.



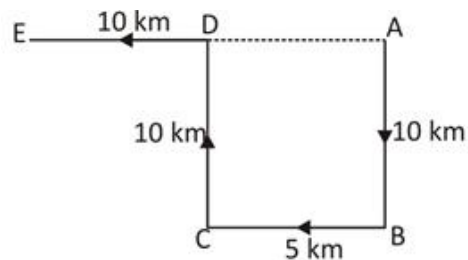
Clearly, the narrator starts from A, moves towards north-east a distance of 10 m up to B, turns left (90 degree anti-clockwise) and moves 7.5 m up to C. Clearly, C lies to the north of A. Also, ΔABC is right-angled at B. So,
 $AC^2 = AB^2 + BC^2 = (10)^2 + (7.5)^2$
 $= 100 + 56.25 = 156.25$

$$AC = \sqrt{(156.25)m} = 12.5m$$

Thus the narrator is 12.5 m to the north of his initial position.

Hence, option D is correct.

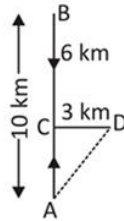
2.



Clearly, Ravi starts from home at A, moves 10 km south wards up to B, turns right and moves and 5 km up to C, turns right again and moves 10 km up to D and finally turns left and moves 10 km up to E.

Thus his distance from initial position $A = AE + DE = BC + DE = (5 + 10) \text{ km} = 15 \text{ km}$
Hence, option B is correct.

3.



Clearly, Kunal moves from A 10 km north-wards up to B, then moves 6 km southwards up to C, turns towards East and walks 3 km up to D. Then, $AC = (AB - BC) = (10 - 6) = 4 \text{ km}$. So, Kunal's distance from the starting point A.

$$AD = \sqrt{(AC^2 + CD^2)} = \sqrt{4^2 + 3^2} = 5 \text{ km}$$

Also, D is to the North-east of A.

Hence, option D is correct.

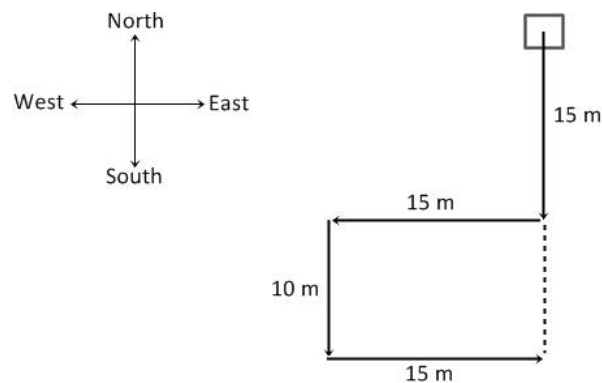
4.



Its clear from the diagram that Tina is facing East.

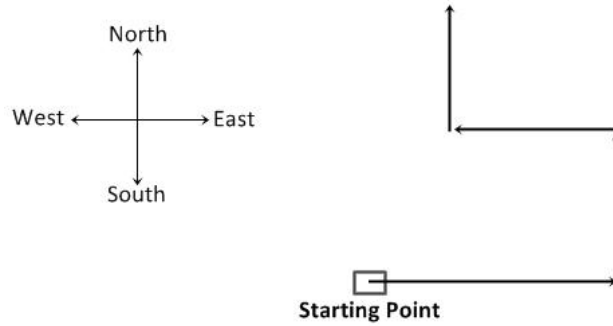
Hence, option A is correct.

5.



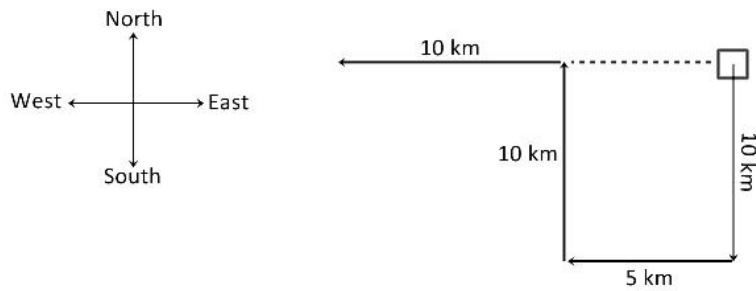
So, the total distance from the initial position = $15\text{ m} + 10\text{ m} = 25\text{ m}$
Hence, option B is correct.

6.



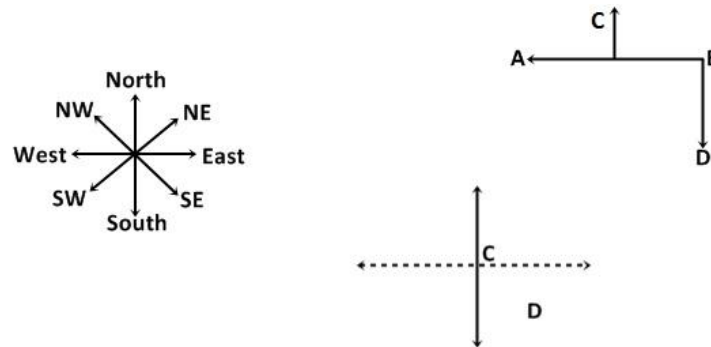
It is clear from the diagram that now Rita is facing North.
Hence, option C is correct.

7.



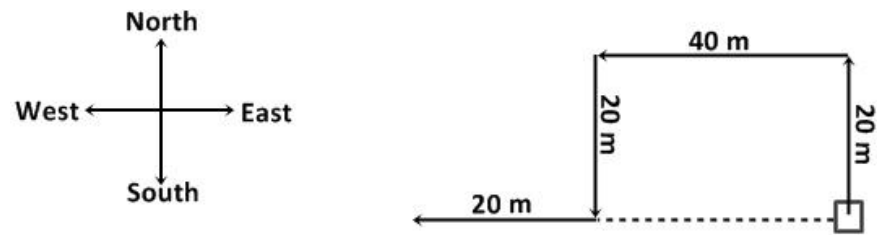
She have to cycle to reach her home straight = $10\text{ km} + 5\text{ km} = 15\text{ km}$
Hence, option B is correct.

8.



Its clear from the diagram that D is SE of C.
Hence, option B is correct.

9.



Its clear from the diagram that Deepak's distance
= $20\text{ m} + 40\text{ m} = 60\text{ m}$.
Hence, option B is correct.

10.



She is going to West right now.
Hence, option D is correct.



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