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Directions Sense Questions for Bank Exams (IBPS PO Pre & SBI PO Pre)

Directions Sense Quiz 2

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

1. A man is facing west. He turns 45° in the clockwise direction and then another 180° in the same direction and then 270° in the anti-clockwise direction. Which direction is he facing now?

A. South B. North-west C. West

D. South-west E. None of these

2. A child is looking for his father. He went 90 metres in the east before turning to his right. He went 20 metres before turning to his right again to look for his father at his uncle's place 30 metres from this point. His father was not there. From there, he went 100 metres to his north before meeting his father in a street. How far did the son meet his father from the starting point?

A. 80 m B. 100 m C. 140 m

D. 180 m E. 260 m

3. Kailash faces towards north. Turning to his right, he walks 25 metres. He then turns to his left and walks 30 metres. Next, he moves 25 metres to his right. He then turns to his right again and walks 55 metres. Finally, he turns to the right and moves 40 metres. In which direction is he now from his starting point?

A. South-west B. South C. North-west

D. South-east E. None of these

4. Deepa moved a distance of 75 metres towards the north. She then turned to the left and walking for about 25 metres, turned left again and walked 80 metres. Finally, she turned to the right at an angle of 45°. In which direction was she moving finally?

A. North-east B. North-west C. South

D. South-east E. South-west

5. Point A is 30 m to the east of point B. Point C is 10 m to the south of point A. Point D is 15 m to the west of point C. Point E is exactly in the middle of the points D and F. Points D, E and F lie in a straight line. The length of the DEF is 20 m. Point F is to the north of point D. Point G is 15 m to the east of Point F. How far and in which direction is point G from point A?

A. 10 m, South B. 15 m, North C. 10 m, North

D. 10 m, East E. None of these

6. Salman started walking from point A. He walked 6 m towards East to reach point B. From point B he took a right turn and walked 3 m to reach point C. From point C he took a right turn and walked 10 m to reach point D. From point D he took a left turn and walked 4 m to reach E. From point E, he walked 4 m East to reach point F. Point G is exactly mid-way between C and point D.

If Salman walks 4 m to the North of point F, how far and in which direction will he be from point G?

A. 1 m towards East B. 2 m towards East C. 1 m towards West

D. 2 m towards West E. 1.5 m towards East

7. Salman started walking from point A. He walked 6 m towards East to reach point B. From point B he took a right turn and walked 3 m to reach point C. From point C he took a right turn and walked 10 m to reach point D. From point D he took a left turn and walked 4 m to reach E. From point E, he walked 4 m East to reach point F. Point G is exactly mid-way between C and point D.

How far and in which direction is point F from point A?

A. 7 m towards South B. 6 m towards South C. 8 m towards South

D. 6 m towards North E. None of these

8. Point F is 10 m to the South of E. Point G is 3 m to the East of F. Point H is 5 m to the South of G. Point I is 6 m to the West of H. Point J is 10 m to the North of I. Point K is 6 m to the East of J. Point L is 5 m to the North of K.

Which of the following represents the direction of point G with respect to point J?

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

D. South E. North

9. Point F is 10 m to the South of E. Point G is 3 m to the East of F. Point H is 5 m to the South of G. Point I is 6 m to the West of H. Point J is 10 m to the North of I. Point K is 6 m to the East of J. Point L is 5 m to the North of K.

How far and in which direction is point E from point L?

A. 6 m South B. 3 m East C. √234 m North

D. 3 m West E. 3 m North-East

10. Point R is 10 m North of point A. Point K is exactly in the middle of the points R and A. Point N is 7 m East of point A. Point M is 7 m East of point K. Point S is 6 m North of point M. What is the distance between points S and N?

A. 13 m B. 16 m C. 11 m

D. 12 m E. None of these

11. Town D is towards East of town F. Town B is towards North of town D. Town H is towards South of town B. Towards which direction is town H from town F?

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

D. Data inadequate E. None of these

12. A school bus driver starts from the school, drives 2 km towards North, takes a left turn and drives for 5 km. He then takes a left turn and drives for 8 km before taking a left turn again and driving for further 5 km. The driver finally takes a left turn and drives 1 km before stopping. How far and towards which direction should the driver drive to reach the school again?

A. 3 km towards North B. 7 km towards East C. 6 km towards South

D. 6 km towards West E. 5 km towards North

Correct Answers:

1	2	3	4	5	6	7	8	9	10	11	12
D	B	D	E	C	A	C	A	D	C	D	E

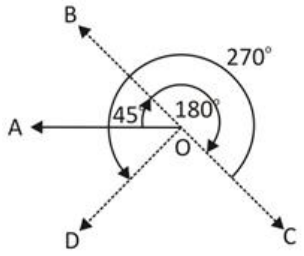
Explanations:

1.

Shortcut Approach:

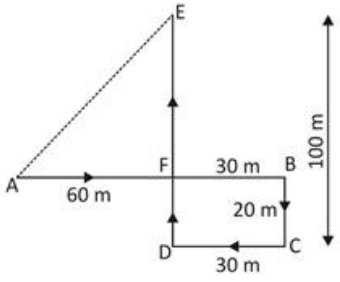
Total movement in Clockwise direction = 45 + 180 = 225 degrees
Total movement in Anti-clockwise direction = 270 degrees
The difference = 270 - 225 = 45 degrees (towards anti-clock wise because the total degrees in anti-clockwise is more than that of clockwise direction)
So, 45 degrees in anti-clockwise direction from the West will be: South-West.
Option D is hence the correct answer.

Traditional Method:



Clearly the man initially faces in the direction OA. On the moving 45 Degree clock wise, he faces in the direction OB . on further moving 180 degree clockwise, he faces in the direction OC. Finally, on moving 270 degree anti-clockwise, he faces in the direction OD, which is south-west. Hence, option D is correct.

2.



Clearly, the child moves from A 90 m east-wards up to B, then turns right and moves 20 m up to C, then turns right and moves 30 m up to D. Finally , he turns right and moves 100 m up to E.

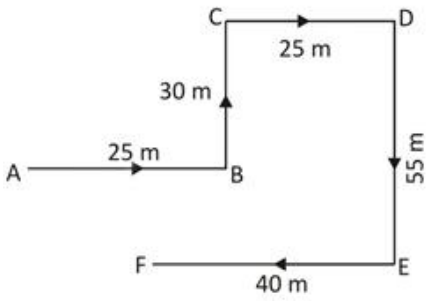
Clearly, AB = 90m , BF = CD = 30 m SO, AF = AB – BF = 60 m. Also, DE = 100 m, DF = BC = 20 m So, EF = DE – DF = 80 m.

$$\text{So, his ditance from starting point A} = \text{AE} = (\sqrt{\text{AF}^2 + \text{EF}^2})$$
$$\sqrt{(60)^2 + (80)^2} = \left(\sqrt{3600 + 6400}\right)$$

$$\sqrt{10000} = 100 \text{ M.}$$

Hence, option B is correct.

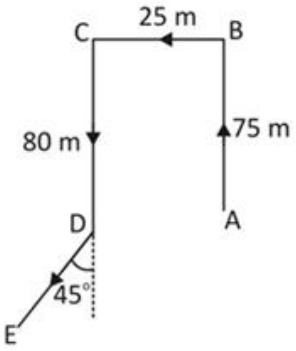
3.



Kailash turns right from north direction. So, hr walks 25 m towards east up to B, turns left and moves 30 m up to C, turns right and goes south and walks 55 m up to E. Next, he again turns to right and walks 40 m up to F, which is his final position. F is to the south–east of A. So , he is to the south-east from his starting point .

Hence, option D is correct.

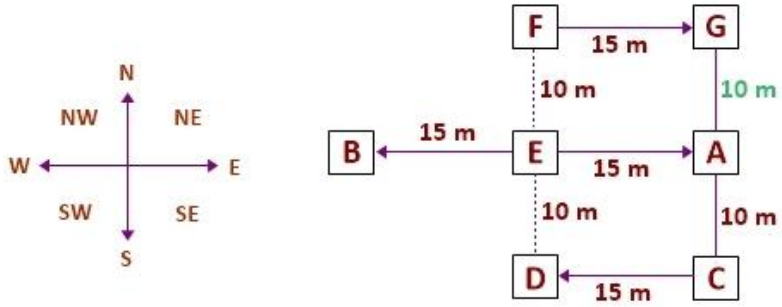
4.



Deepa started from A, Moved 75 m up to B, turned left and walked 25 m up to C. She turned left again and moved 80 m C to D. Turning to the right at angle of 45° , she was finally moving in the direction DE i.e, South- west.

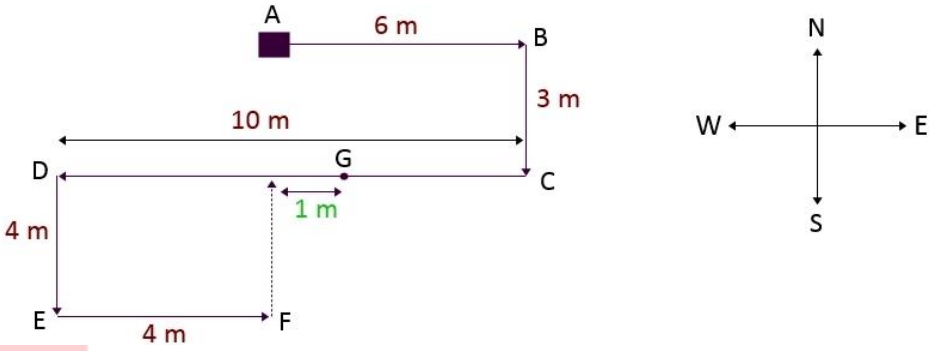
Hence, option E is correct.

5.



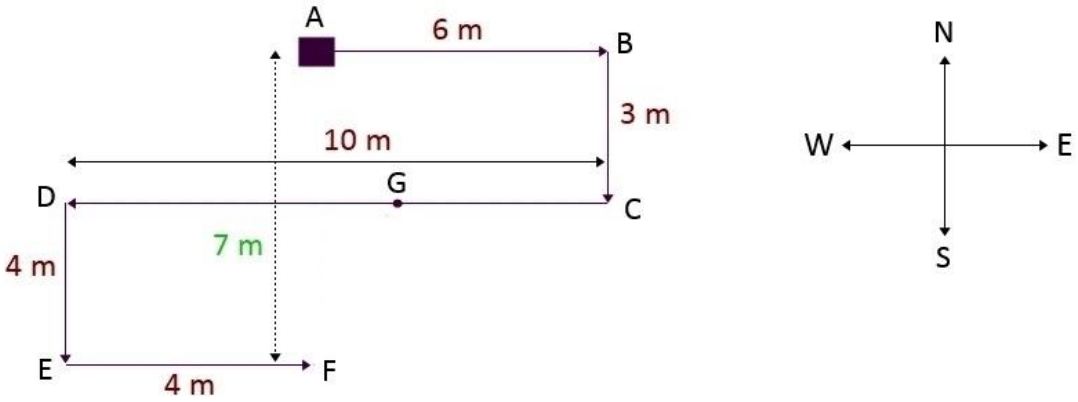
It's clear from the diagram that point G is 10 m to the north of point A.
Hence, option C is correct.

6.



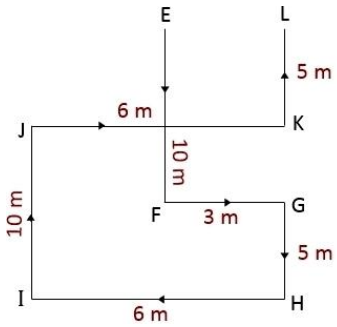
It's clear from the diagram that Salman's end point will be 1 m far from and in the west direction with respect to point G.
Hence, option A is correct.

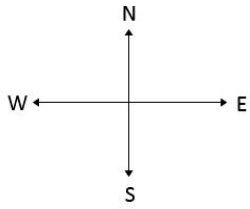
7.



It's clear from the diagram that the point F is 7 m far from and in the south direction with respect to point A.
Hence, option C is correct.

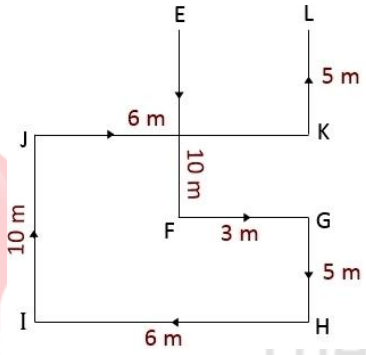
8.

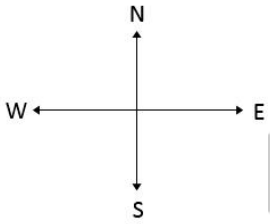




It's clear from the diagram that direction of point G with respect to point J is South- East.
Hence, option A is correct.

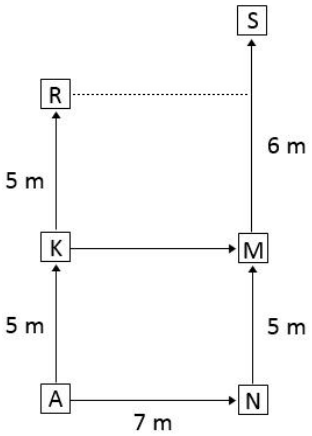
9.

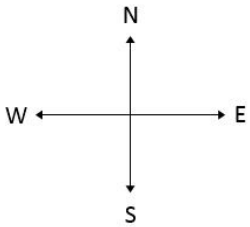




It's clear from the diagram that the point E is 3 m far from and in the west direction with respect to point L.
Hence, option D is correct.

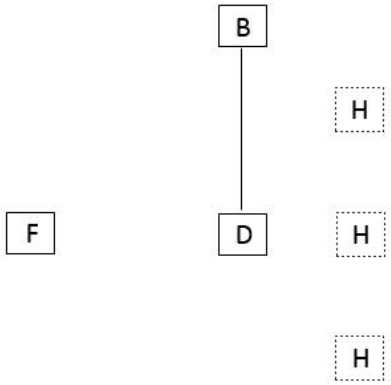
10.





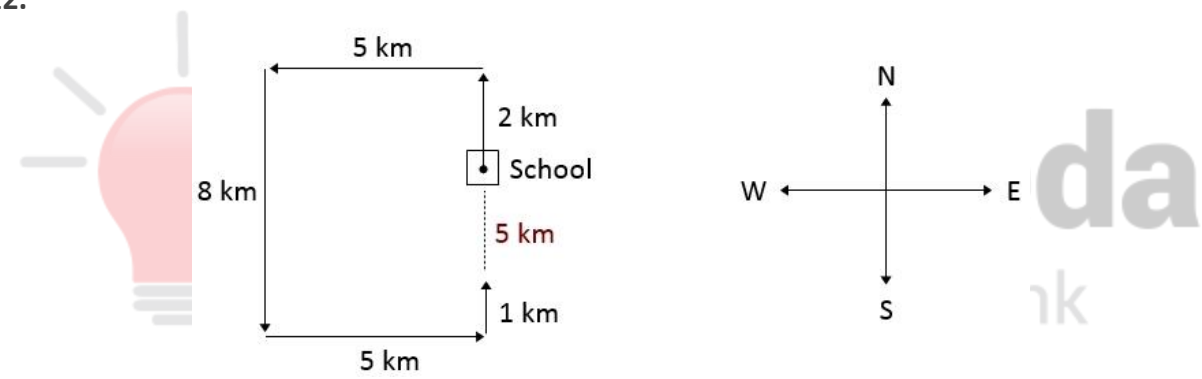
It's clear from the diagram that the distance between S and N is (6 + 5) = 11 m
Hence, option C is correct.

11.



The position of town H is not specifically mentioned.
Hence, option D is correct.

12.



It's clear from the diagram that the School is 5 km far towards north direction.
Hence, option E is correct.

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