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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 12

SET – 1

(Question 1 to 4)

Directions: Study the following information carefully and answer the questions given beside:

Five persons – Ashi, Bala, Diya, Neha and Rupa were standing in a row facing north direction, but not necessarily in the same order. The distances between two adjacent persons are successive multiples of four (i.e. if the distance between the 1st and the 2nd person is 4 m, 1st and the 3rd person is 8m and between 1st and 4th person is 12 m and so on.)

(i.e. suppose Ashi stand on the left end of the line then the remaining people will stand at a distance as follows – 4 m, 8 m, 12 m and so on, from the end)

Ashi was standing at the left end of the line. Two persons were standing between Ashi and Bala. Diya stand second to the left of Bala. Rupa was an immediate neighbor of Diya. Only one person stands between Rupa and Neha. Joya starts walking from point X which was 8 m in north from Rupa. Joya moves 17 m in north-east direction to reach point Y. Point Y and Neha were inline vertically. Neha moves 6 m in the north direction and stops at point Z. Person Ashi moves in the direction to point Z.

1. What is the shortest distance between the initial position of Neha and final position of Joya?

A. 8√19 m B. 19 m C. 7 + 6√11 m

D. 23 m E. None of these

2. What is the direction of initial position of Joya with respect to final position of Ashi?

A. North B. East C. North – West

D. West E. South – East

3. What is the shortest distance between the final position of Ashi and initial position of Joya?

A. 2√17 m B. 3√8 m C. 3√12 m

D. 4√13 m E. None of these

4. If Ashi had stopped at point T which is 5m north from Bala instead of point Z, then what would be the shortest distance between initial and final position of Ashi?

A. 12 m B. 15 m C. 13 m

D. 10 m E. None of these

SET – 2

(Question 5 to 7)

Directions: Study the following information carefully and answer the questions given beside:

There is PQ axis in such a way that P is in north and Q is in south direction. There is RS axis in such a way that R is in west direction and S is in east direction. PQ axis and RS axis intersect at a point X in such a way that PX is 20 m, XQ is 23 m, XR is 19 m, XS is 31 m.

Car A starts from point R and travels 28 m in south direction and then it takes a left turn and travels 45 m. Car B starts from point P and travels 26 m in east direction. Car C starts from point S and travels 7 m in north direction

and then it takes a left turn and travel 5 m and again it takes a left turn and travels 30 m.

What is the shortest distance between the final positions of car A and car B?

A. 35 m B. 42 m C. 48 m

D. 48 m E. None of these

6. What is the direction of point R with respect to the final position of car A?

A. North B. North – East C. West

D. South – East E. North – West

7. What is the direction of car C with respect to point P?

A. South B. South – East C. North – East

D. West E. South – West

SET – 3

(Question 8 to 10)

Directions: Study the following information carefully and answer the questions given beside:

Point A is to the 4m east of Point D. Point BEG lies in a straight line. The distance between Point B and Point E is one-third the distance between Point E and Point G. Point K is south east of Point B. Point B is in the north east from Point A. The distance between B and C is twice the distance between D and A. The distance between B and C is same as the distance between G and K and are in parallel lines. Point E is north of Point G and is in south west of Point C. Point B is in the west from Point C. Point DAE is in a straight line. The distance between Point B and Point E is half the distance

between Point A and Point E. The distance between Point B and Point E is 5m.

8. Point K is in which direction of point D?

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

D. South West E. Cannot be determined

9. What is the shortest distance between Point A and Point B?

A. 4√5m B. 2√5m C. 3√5m

D. 5√5m E. Cannot be determined

10. How far and in which direction is Point K with respect to Point C?

A. 20m, North B. 20m, South C. 20m, East

D. 20m, West E. None of these

Correct answers:

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

Common explanation (1 to 4)

Reference:

Ashi was standing at the left end of the line.

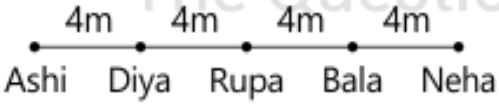
Two persons were standing between Ashi and Bala.

Diya stand second to the left of Bala.

Rupa was an immediate neighbor of Diya.

Only one person stands between Rupa and Neha.

Inference:



Using the given hints we can fix the positions of all the five persons standing in the row.

Reference:

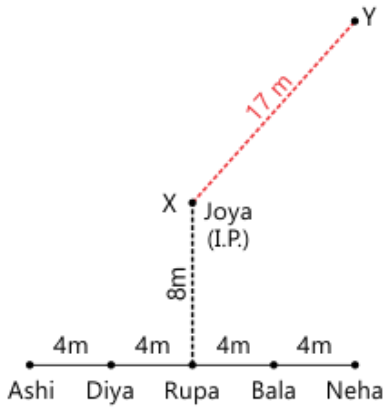
Joya starts walking from point X which was 8 m in north from Rupa.

Joya moves 17 m in north-east direction to reach point Y.

Point Y and Neha were inline vertically.

Inference:

Here, in the figure below the path of Joya is denoted by Red colour, and I.P. and F.P. means initial position and final position of the person.



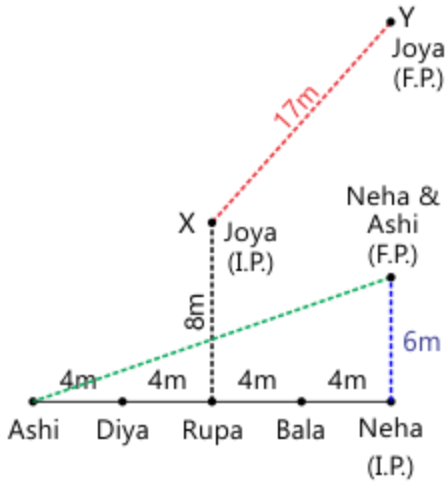
Reference:

Neha moves 6 m in the north direction and stops at point Z.

Person Ashi moves in the direction to point Z.

Inference:

In the figure below, the path of Neha and Ashi is denoted by Blue and green colour respectively, and I.P. and F.P. means initial position and final position of the person.



Explanations:

1.

Following the figure we made using the given information we can say that the shortest distance between the initial position of Neha and final position of Joya = (15 + 2 + 6) m = 23 m.

Hence, the correct answer is option D.

2.

Following the figure we made using the given information we can say that initial position of Joya was in North – West direction with respect to final position of Ashi.

Hence, the correct answer is option C.

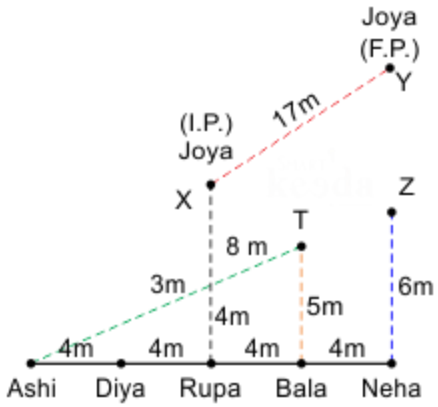
3.

Following the figure we made using the given information we can say that the shortest distance between final position of Ashi and initial position of Joya = $(8^2 + 2^2)^{1/2}$ m = 2√17 m

Hence, the correct answer is option A.

4.

Following the figure we can say that the shortest distance between initial and final position of Ashi is 13 m.



Note- T is the final position of Ashi as per the question.

$= \sqrt{(12)^2 + (5)^2} = \sqrt{169}$

= 13

Hence option C is correct.

Common explanation (5 to 7)

Reference:

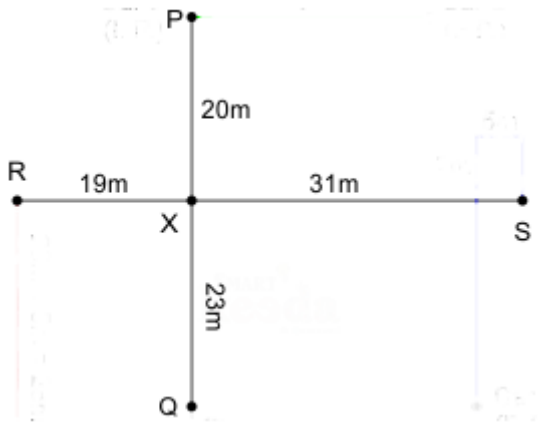
There is PQ axis in such a way that P is in north and Q is in south direction.

There is RS axis in such a way that R is in west direction and S is in east direction. PQ axis and RS axis intersect at a point X in such a way that PX is 20 m,

XQ is 23 m, XR is 19 m, XS is 31 m.

Inference:

Using the given hints we can create a following figure:

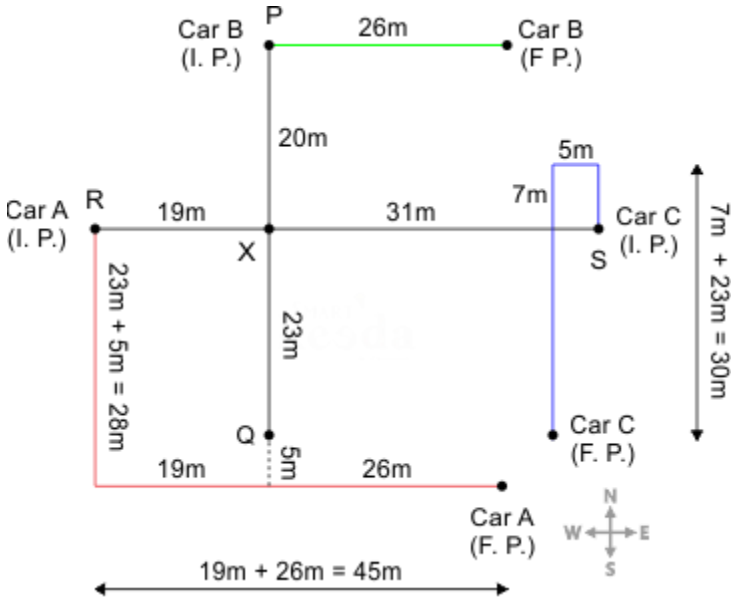


Reference:

Car A starts from point R and travels 28 m in south direction and then it takes a left turn and travels 45 m. Car B starts from point P and travels 26 m in east direction. Car C starts from point S and travels 7 m in north direction and then it takes a left turn and travel 5 m and again it takes a left turn and travels 30 m.

Inference:

Here, the paths of car A, car B and car C will be denoted by red, blue and green colour respectively.



In the above figure I.P. means initial position and F.P. means final position.

Explanations:

5.

Following the figure we made using the given information we can say that the shortest distance between the final positions of car A and car B = (5 + 23 + 20) m = 48 m.

Hence, the correct answer is option C.

6.

Following the figure we made using the given information we can say that point R is in North – West direction with respect to the final position of car A.

Hence, the correct answer is option E.

7.

Following the figure we made using the given information we can say that car C is in South – East direction with respect to point P.

Hence, the correct answer is option B.

Common explanation (8 to 10)

Common Explanation

References:

Point A is 4m east of Point D.

The distance between Point B and Point E is 5m.

The distance between Point B and Point E is half the distance between Point A and Point E.

Point DAE is in a straight line.

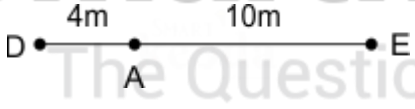
Inferences:

Given, Distance between (Point B to Point E) = 5m

Given, Distance between (Point B to Point E) = ½ [Distance between (Point A to Point E)]

Therefore, Distance between (Point A to Point E) = 5m × 2 = 10m

Point DAE is in a straight line. Thus we get



References:

Point B is in north east from Point A.

The distance between Point B and Point E is 5m.

Point E is north of Point G and is in south west of Point C.

Point BEG lies in a straight line.

The distance between Pont B and Point E is one-third the distance between Point E and Point G.

Inferences:

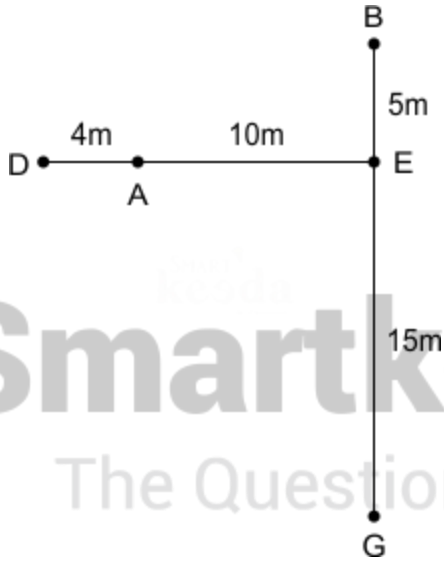
By using above information, we get,

Given, Distance between (Point B to Point E) = 5m

Given, Distance between (Point B to Point E) = 1/3 [Distance between (Point E to Point G)]

Therefore, Distance between (Point E to Point G) = 5m × 3 = 15m

Point BEG lies in a straight line. Thus we get,



References:

Point K is south east of Point B. Point B is west of Point C.

The distance between B and C is twice the distance between D and A.

The distance between B and C is same as the distance between G and K and are in parallel lines.

Point E is north of Point G and is in south west of Point C.

Inferences:

By using above information, we get,

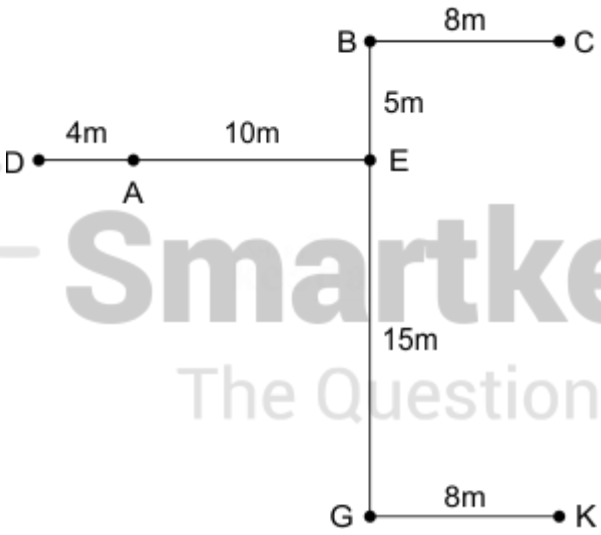
We know, Distance between (Point D to Point A) = 4m

Given, Distance between (Point B to Point C) = 2 [Distance between (Point D to Point A)]

Therefore, Distance between (Point B to Point C) = 4m × 2 = 8m

Thus, Distance between (Point G to Point K) = 8m

As per above information, we get the final diagram as follows,



Explanations:

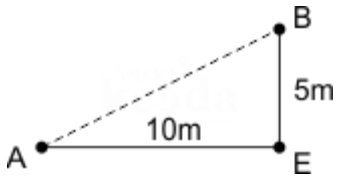
8.

The following common explanation, we get “South East”.

Hence, option C is correct.

9.

The following common explanation, we get “5√5m”.



$(AB)^2 = \sqrt{(AE)^2 + (BE)^2}$

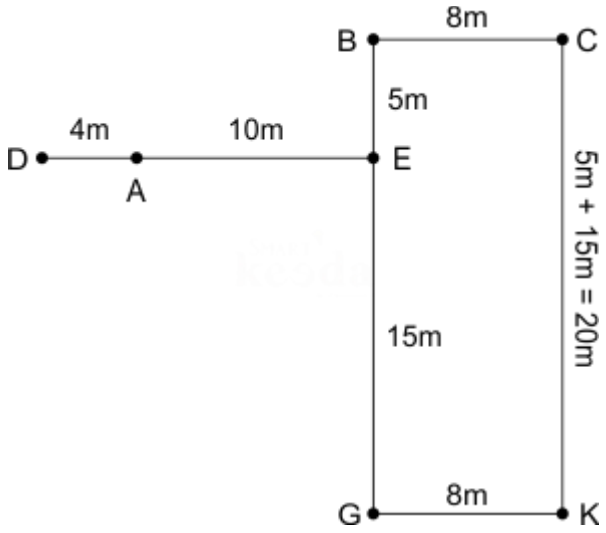
$(AB)^2 = \sqrt{10^2 + 5^2} = \sqrt{100 + 25}$

Therefore (AB) = $\sqrt{125} = \sqrt{5 \times 25}$ = 5√5m

Hence, option D is correct.

10.

From the following common explanation, we get to know that point K is in "20m, South" from point C.



Hence, option B is correct.