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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 QUIZ 13

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

SET – 1

(Question no. 1 to 2)

Point B is 25 m south of point A. Point C is 30 m east of point B. Point D is 15 m north of point C. Point E is 10 m west of point D.

1. If point X is 30 m east of Point A, then Point D is how far and in which direction from point X?

A. 10 m, North B. 5 m, North C. 15 m, South

D. 10 m, South E. 15 m, South

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2. What is the direction of point A with respect to point E?

A. North B. Northwest C. Southeast

D. Southwest E. West

SET – 2

(Question no. 3 to 4)

Aman started from his school, walks 11 m towards the north then takes a right turn and walks 9 m after that he takes right turn again, walks 17 m and stops at his house. Rajat also starts from the same School, walks 14 m towards the south, then takes a left turn and walks 15 m before stopping at his house.

3. What is the direction of school with and Aman's house?

A. Southwest B. Northwest C. North

D. Southeast E. East

4. What is the shortest distance between Rajat's house and Aman's house?

A. 12 m B, 15 m C. 8 m

D. 10 m E. 11 m

SET – 3

(Question no. 5 to 7)

Nine shops –S1, S2, S3, S4, S5, S6, S7, S8 and S9 were located at some distance from each other in a shopping complex. S3 was 16 m % to that of S2. S1 was 6 m # of that of S2 and S8 was 12 m @ of that of S1. S7 was 8 m $ of that of S8 while S4 was 24 m % of that of S7 and S6 was 12 m # of that of S7. S9 was situated just in the middle of S2 and S3 while S5 was just in the middle of S8 and S4.

Here, # means North, @ means South, % means East and $ means West

Note: If two symbols are given simultaneously then we will consider both the directions.

For example,

X#%Y means Y is to the North-East of X

Y#%X means X is to the North-East of Y

5. Which of the following is/are true about S2?

A. S9$S2#$S6 B. S2@$S7 C. S2@%S4

A. All are true B. Both A and B C. Only A

D. Both B and C E. Only C

6. If another shop S10 is located to the @ of S1 and # of S2 then which of the following is/are true about S10?

A. S8#S10 B. S4#$S10 C. S7#%S10

A. Both A and B B. Only B C. All are true

D. Only C E. Both B and C

7. If S5 is 24 m to the $ of S11 and S12 is to 12 m to the # of S11 then what is the shortest distance between S4 and 12?

A. 25 m B. 20 m C. 10√3 m

D. 18 m E. 12√3 m

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SET – 4

(Question no. 8 to 10)

Six persons – Reema, Naina, Suman, Ankit, Harish and Plash, each having a different age were sitting on the different benches in a park situated at some distance from each other.

No person was sitting in west of Reema, Ankit, and Harish. Oldest person was sitting 15 m north of Naina. Suman was sitting 10 m east of person Ankit. Youngest person was sitting northwest of Ankit. Ankit was sitting somewhere in between Harish and Naina vertically. Ankit was older than both Harish and Plash. Plash was third oldest person among all the persons and was 10 m west of third youngest person. Harish was younger than only one person.

8. What was the direction of Reema with respect to the second youngest person?

A. West B. Northeast C. Southeast

D. East E. Northwest

9. What is the shortest distance between Plash and the second youngest person?

A. 32 m B. 25 m C. 20 m

D. 45 m E. 10 m

10. If the youngest person was located 24 m to the north of third oldest person then what was the shortest distance between third youngest and youngest person?

A. 26√2 m B. 27√2 m C. 22 m

D. 26 m E. 20√3 m

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Correct answers:

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

<u>Common Explanation</u> (Q. 1 to 2):

Reference:

Point B is 25 m south of point A.

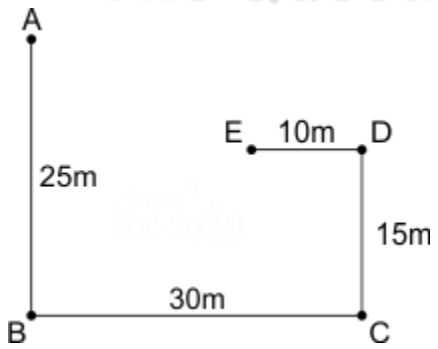
Point C is 30 m east of point B.

Point D is 15 m north of point C.

Point E is 10 m west of point D.

Inference:

Using the above information we can drawn a following figure:



1.

Following the common explanation we can say point D is 10 m away and towards south of point X.

Hence, the correct answer is option D.

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2.

Following the common explanation we can say point A is in northwest direction with respect to point E.

Hence, the correct answer is option B**.**

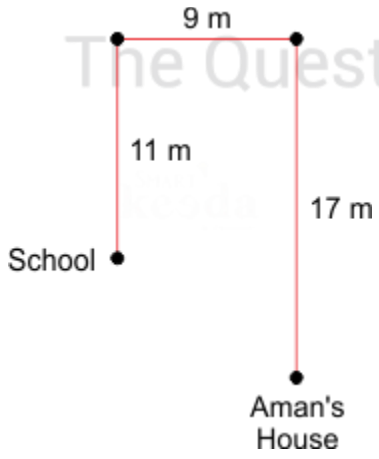
<u>Common Explanation</u> (Q. 3 to 4):

Reference:

Aman started from his home, walks 11 m towards the north then takes a right turn and walks 9 m after that he takes right turn again, walks 17 m and stops at his house.

Inference:

Here, the path of Aman is marked in red colour.

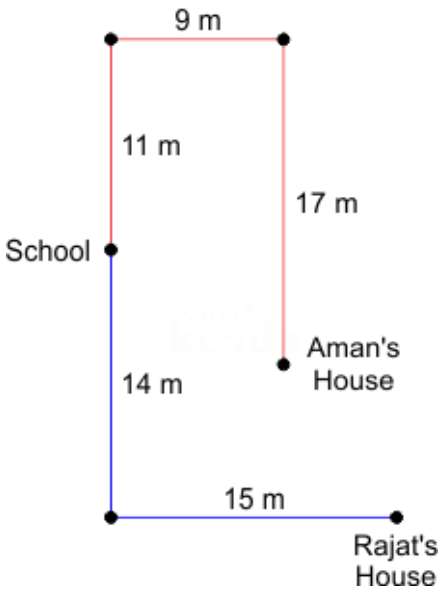


Reference:

Rajat also starts from the same School, walks 14 m towards the south, then takes a left turn and walks 15 m before stopping at his house.

Inference:

Here, the path of Rajat is marked in blue colour.



3.

Following the final solution we can say that School is in northwest direction with respect to Aman's house.

Hence, the correct answer is option B.

4.

Following the final solution we can say that the shortest distance between Rajat's house and Aman's house is 10 m.

Hence, the correct answer is option D.

Common Explanation (Q. 5 to 7):

Reference:

Here, # means North, @ means South, % means East and $ means West
Note: If two symbols are given simultaneously then we will consider both the directions.

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For example,

X#%Y means Y is to the North-East of X
Y#%X means X is to the North-East of Y

Inference:

We will keep this information in mind while solving the puzzle.

Reference:

Nine shops –S1, S2, S3, S4, S5, S6, S7, S8 and S9 were located at some distance from each other in a shopping complex. S3 was 16 m % to that of S2. S1 was 6 m # of that of S2 and S8 was 12 m @ of that of S1. S7 was 8 m $ of that of S8 while S4 was 24 m % of that of S7 and S6 was 12 m # of that of S7. S9 was situated just in the middle of S2 and S3 while S5 was just in the middle of S8 and S4.

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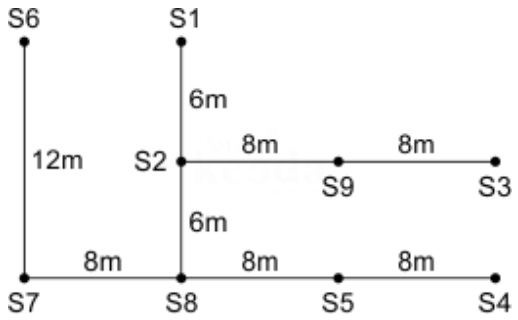
Inference:

After decoding the symbols above statement can be rewritten as:

Nine shops –1, 2, 3, 4, 5, 6, 7, 8 and 9 were located at some distance from each other in a shopping complex. S3 was 16 m east to that of S2. S1 was 6 m north of that of S2 and S8 was 12 m south of that of S1. S7 was 8 m west of that of S8 while S4 was 24 m east of that of S7 and S6 was 16 m north of that of S7. S9 was situated just in the middle of S2 and S3 while S5 was just in the middle of S8 and S4.

At this point we can easily create a rough map of the location of these shops:



5.

After decoding the options, we get:

S9$S2#$S6 → S2 is to the west of S9 and S6 is to the northwest of S2.

S2@$S7 → S7 is to the southwest of S2

S2@%S4 → S4 is to the southeast of S2

Here, we can see that all of the options follow with the figure we made.

Hence, the correct answer is option A.

6.

After decoding the options, we get:

S8#S10 → S10 is to north of S8.

S4#$S10 → S10 is to the northwest of S4

S7#%S10 → S10 is to the northeast of S7

Here, we can see that all of the options follow with the figure we made.

Hence, the correct answer is option C.

7.

Following the final solution and applying the given conditions we can redraw the final figure as:

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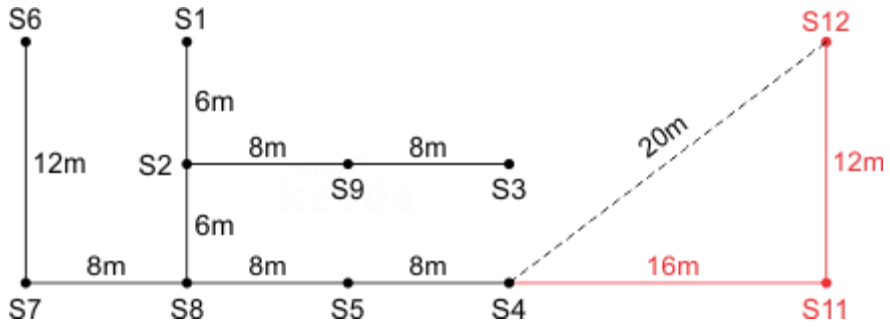

Here, the shortest distance between S4 and S12 is 20 m.

Hence, the correct answer is option B.

Common Explanation (Q. 8 to 10):

Reference:

Six persons – Reema, Naina, Suman, Ankit, Harish and Plash, each having a different age were sitting on the different benches in a park situated at some distance from each other.

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Inference:

We will keep this information in mind while solving the puzzle.

Reference:

Ankit was older than both Harish and Plash.

Harish was younger than only one person.

Oldest person was sitting 15 m north of Naina.

Inference:

Using the above hints we can say that Ankit was the oldest person and was sitting 15 m to the north of Naina.

Decreasing order of age:

Ankit > Harish > ____ > ____ > ____ > ____

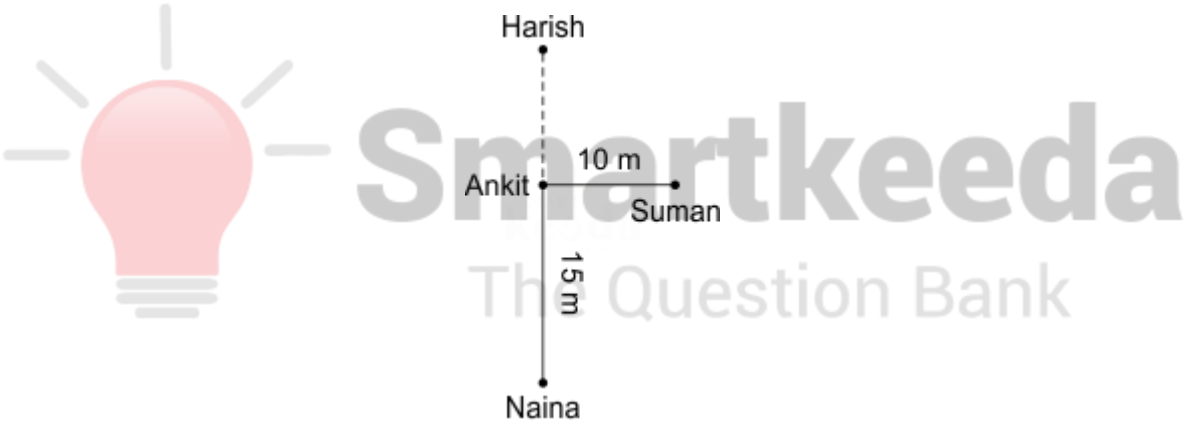
Reference:

Suman was sitting 10 m east of person Ankit.

Ankit was sitting somewhere in between Harish and Naina vertically.

Inference:

With the help of above hints we can draw a following figure:



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Decreasing order of age:

Ankit > Harish > ____ > ____ > ____ > ____

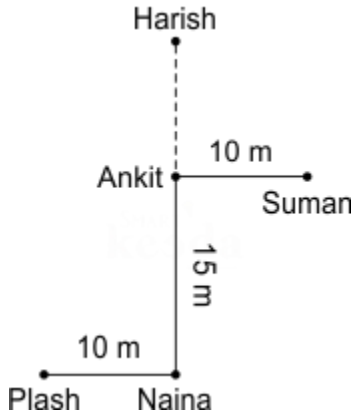
Reference:

No person was sitting in west of Reema, Ankit, and Harish.

Plash was third oldest person among all the persons and was 10 m west of third youngest person.

Inference:

At this the only possible scenario in which we can fix the position of Plash is when Plash was seated 10 m to the west of Naina.



Here, we can say that Naina was third youngest person.

Decreasing order of age:

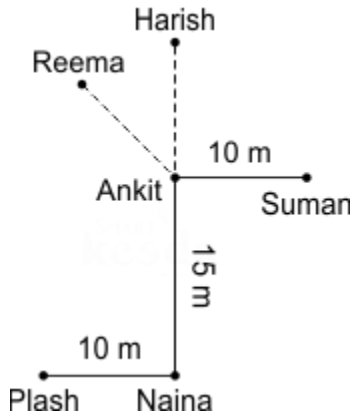
Ankit **>** Harish **>** Plash **>** Naina **>** ____ **>** ____

Reference:

Youngest person was sitting northwest of Ankit.

Inference:

Here we can say that Reema was the youngest person.



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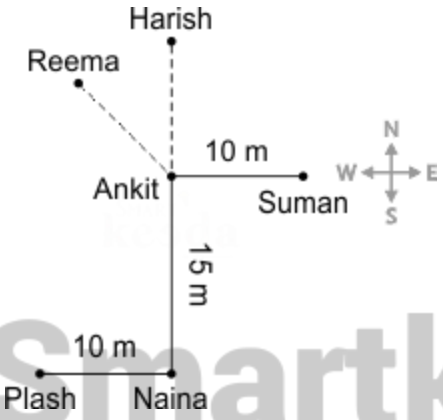
Decreasing order of age:

Ankit > Harish > Plash > Naina > Suman > Reema

8.

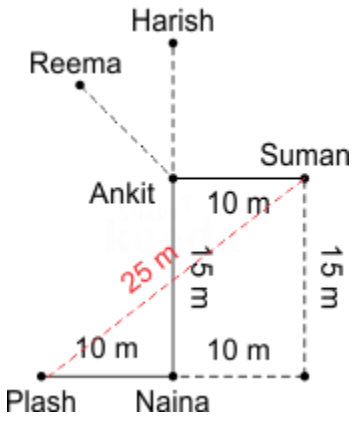
Following the final solution we can say that Reema was in northwest direction with respect to the second youngest person.



Hence, the correct answer is option E.

9.

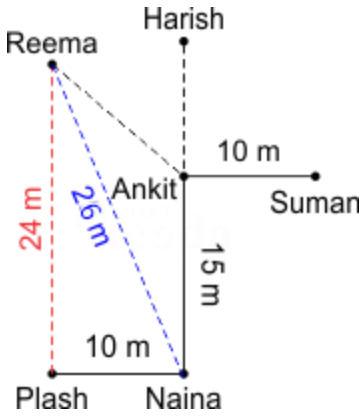
Following the final solution we can say that the shortest distance between Plash and the second youngest person is 25 m.



Hence, the correct answer is option B.

10.

Following the final solution and applying the given conditions, we get:



Here, the shortest distance between third youngest and youngest person is 25 m.

Hence, the correct answer is option D.

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