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Direction Sense Questions for SBI Clerk Mains, IBPS Clerk Mains, SBI PO Pre and IBPS PO Pre Exams.

Direction Sense Quiz 28

Directions: Read the given information carefully and answer the questions given beside.

Eight persons namely Aadit, Babar, Chahel, Danvir, Etash, Faisal, Gagan and Hardik were standing in different directions with respect to each other. Each of them scored different marks in the English subject among 34, 39, 43, 48, 54, 63 and 70 but not necessarily in the same order. Only two of them have equal marks.

Aadit is 12m west of Etash and his mark is 54. Only Chahel scored the highest mark and stands 15m west of the person, whose marks is 63. Babar stands 8m north of Hardik, who scored 34 marks. Hardik is 20m south-west of Etash. The mark scored by Etash and the person, who stands 15m west of Chahel is same. Gagan is 15m west of the person, whose marks is 43. The one who scored third lowest mark is 16m north of Chahel. Danvir is not to the north-west of Aadit. Etansh's mark is more than 43. Babar scored more marks than Aadit. Aadit, Babar and Hardik are standing in a vertical line.

1.   What is the shortest distance between Hardik and Aadit?

A. 8 m   B. 15 m   C. 16 m   D. 18 m   E. Can't be determined

2.   Who among the following people scored less marks than the one who stands exactly to the east of Gagan?

    I. Gagan
    II. Aadit
    III. Hardik

A. Only I   B. Only II   C. Only III   D. Both I and III   E. Both I and II

3.   What is the difference between the marks scored by Faisal and Danvir?

A. 05   B. 04   C. 09   D. 16   E. None of these

4.   How many persons scored more marks than the one who is exactly to the east of Aadit?

A. Two   B. Three   C. Four   D. Five   E. None of these

5. **What is the distance between Gagan and the person who stands 30m to the west of Babar?**

A. 15 m   B. 10√3 m   C. 16 m   D. 12 m   E. None of these

Correct Answers:

1	2	3	4	5
C	D	A	B	C

Common explanation:

References:
Only Chahel scored the highest mark stands 15m west of the person, whose mark is 63.
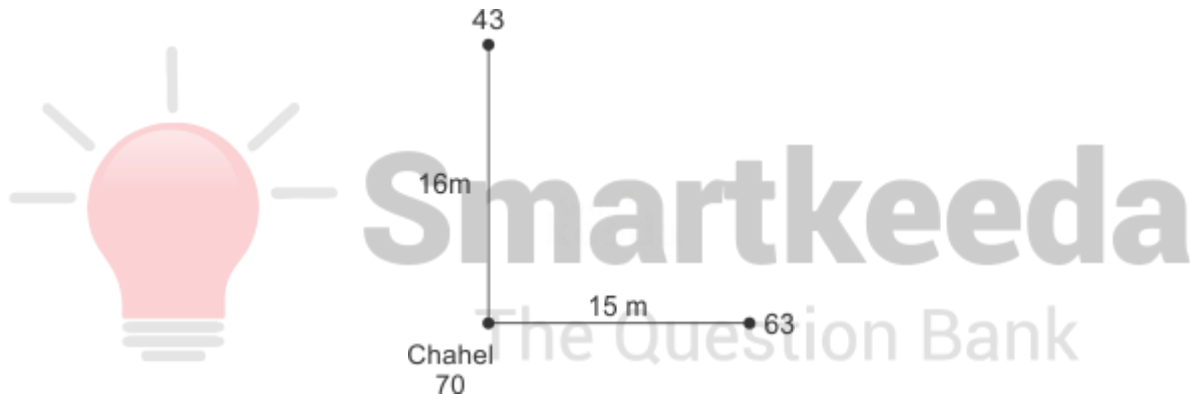
The one who scored third lowest mark is 16m north of Chahel.

Inferences:
From above statements we get,

Only Chahel scored 70 marks (highest among given) stands, 15m west of the person, whose mark is 63 (reference point-1)

The one who scored 43 marks (third lowest mark) stands, 16m north of Chahel (reference point-2)

By using above information we get the following direction as shown,

References:
Only two of them have equal marks.

The mark scored by Etash and the person, who stands 15m west of Chahel is same.

Etansh's mark is more than 43.

Gagan is 15m west of the person, whose mark is 43.

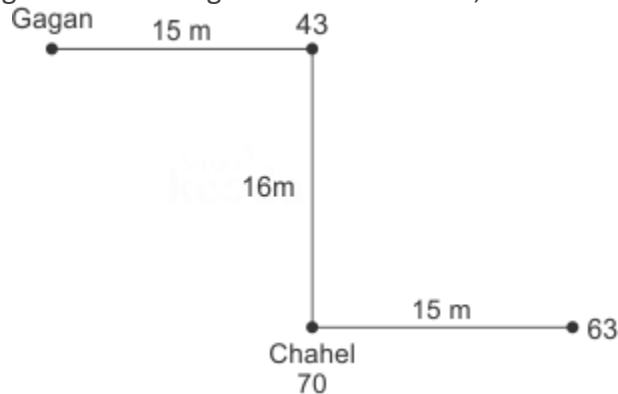**Inferences:**
From above statements we get,

Given, only two of them have equal marks and one of them is Etash and the other person is the one, who stands 15m west of Chahel is same (reference point 1 and 2)

Also given, Etash's mark is more than 43 (reference point-3). Therefore we conclude that Etash doesn't stand 16m north of Chahel.

Given, Gagan is 15m west of the person, whose mark is 43 (reference point-4). Thus it is clearly understood

that the only person who scored 43 marks and Gagan stands 15m west of him i.e. Gagan stands north-west direction with respect to Chahel as per direction.

By using above information we get the following direction as shown,

 References:
Each of them scored different marks in the English subject among 34, 39, 43, 48, 54, 63 and 70.

Aadit is 12m west of Etash and his mark is 54.

Babar scored more marks than Aadit.

Babar stands 8m north of Hardik, who scored 34 marks.

Hardik is 20m south-west of Etash.

Aadit, Babar and Hardik are standing in vertical line.

Inferences:
From above statements we get,

Aadit scored 54 marks and he is 12m west of Etash (reference point-2)

Babar scored more than Aadit (reference point-3). Therefore the numbers which are more than 54 among given are 63 and 70. We know only Chahel scored 70 marks. Thus Babar scored 63 marks (only possibility)

Babar (scored 63 marks) stands 8m north of Hardik (scored 34 marks) (reference point-4)

Hardik is 20m south-west of Etash. Aadit, Babar and Hardik are standing in vertical line (reference point-5) i.e. Babar stands exactly in between Aadit and Hardik and the distance is calculated as follows,
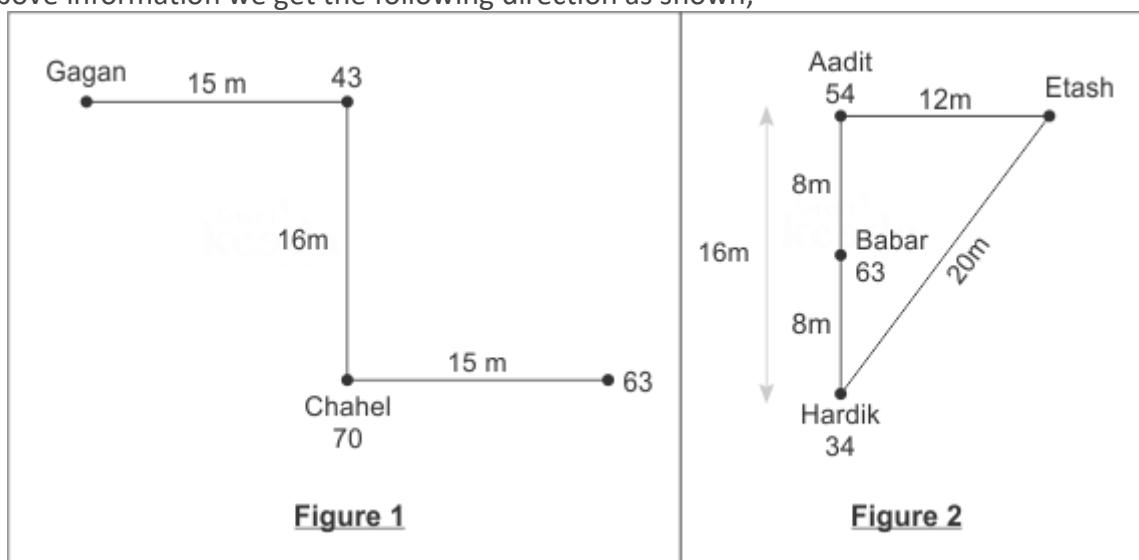
To find the distance between Aadit and Hardik:

We know, Aadit to Etash is 12m (East) and Hardik to Etash is 20m (north-east)

$\sqrt{20^2 - 12^2} = \sqrt{400 - 144} = \sqrt{256m}$ = 16m
 Given, the distance between Babar and Hardik is 8m. Therefore the distance between Babar and Aadit is also 8m i.e. all 3 (Aadit, Babar and Hardik) are in the vertical line as shown in figure

By using above information we get the following direction as shown,
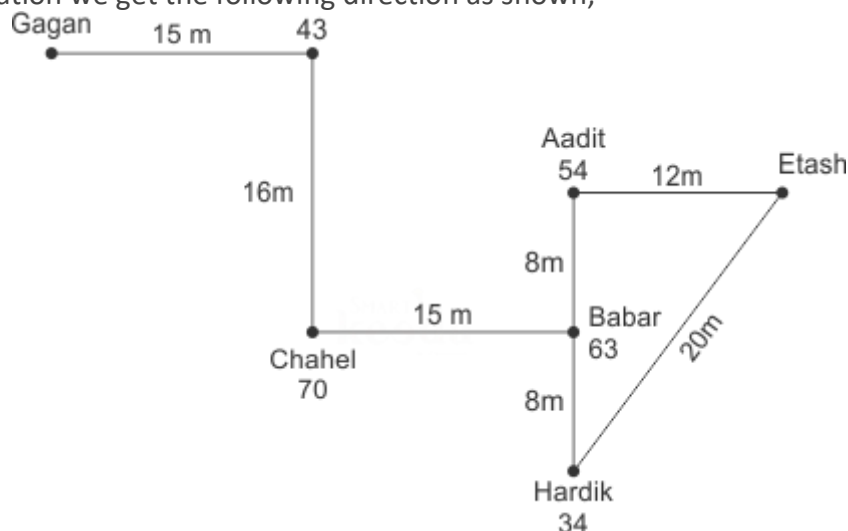

Figure 1

Figure 2

We know that, the two people who scored same marks are Etash and the one, who stands 15m west of Chahel.

If we observe from figure-1, the one who scored 63 marks stands east of Chahel. Therefore we conclude that Etash doesn't score 63 marks (Note: If Etash scored 63 marks and stands 15m east of Chahel, then Babar (scored 63 marks) stands south-east of Chahel as per direction which is not possible as per given condition)

Also it is cleared that only Babar scored 63 marks (from figure-2). Now by combining figure 1 and 2, we get that the Babar scored 63 marks and stands 15m east of Chahel.

By using above information we get the following direction as shown,

References:
Each of them scored different marks in the English subject among 34, 39, 43, 48, 54, 63 and 70.

The mark scored by Etash and the person, who stands 15m west of Chahel is same.

Etansh's mark is more than 43.

Danvir is not to the north-west of Aadit.

Inferences:
From above statements we get,

Remaining persons left are Faisal and Danvir.

To find the mark of Etash:

Remaining marks left that are more than 43 are 48, 54, 63 and 70. Here we know only Chahel scored 70 marks, and Etash didn't score 63 marks.

Now the remaining marks are 48 and 54. Etash can't score 54 marks since Aadit scored 54 marks and both Aadit and Etash are in straight line at a distance of 12m and also both of them are north-east direction of Chahel.

But as per condition, one of two people who scored same mark stands 15m west of Chahel [reference point-2]

Therefore we conclude that Etash scored 48 marks (only possibility, more than 43) [reference point-3]
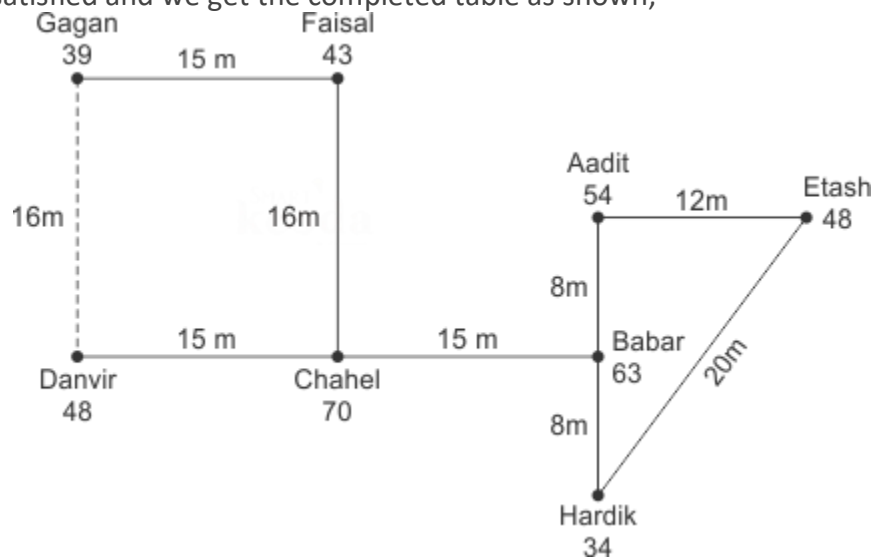
From above figure,

If Danvir scored 43 marks, then he will be in the north-west direction of Aadit, which is not possible as per 4th reference point.

Therefore Danvir must score 48 marks (one of two people who scored same mark) and stands 15m west of Chahel.

Therefore Faisal (only person left) scored 43 marks and stands 16m north of Chahel as per direction.

Finally Gagan scored 39 marks (only mark is left among given).

All the condition get satisfied and we get the completed table as shown,

Answers.

1. Following the common explanation, we get "16 m".

From figure, the shortest distance between Hardik and Aadit is 16m (8m + 8m = 16m).

Hence, option C is correct.

2. Following the common explanation, we get "Both Gagan and Hardik".

Faisal scored 43 marks and stands exactly to the east of Gagan

Gagan and Hardik scored 39 and 34 marks respectively i.e. less than 43

Hence, option D is correct.

3. Following the common explanation, we get "05".

Faisal = 43 & Danvir = 48

Difference = 48 – 43 = 05

Hence, option A is correct.

4. Following the common explanation, we get "Three".

Etash scored 48 marks and stands exactly to the east of Aadit

Chahel, Babar and Aadit scored 70, 63 and 54 marks respectively i.e. more than 48

Hence, option B is correct.

5. Following the common explanation, we get "From figure, 16m".

From figure, Danvir stands 30m (15m + 15m = 30m) to the west of Babar

Gagan stands 16m north of Danvir

Hence, option C is correct.