Reasoning Data Sufficiency Questions for SBI PO Pre, IBPS Po Pre, SBI Clerk Mains, IBPS Clerk Mains and IBPS RRB Scale I Pre Exams.

Reasoning DS Quiz 20

Directions: Each of the following consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question:

1. Eight persons are standing in two parallel rows, such that four persons stand in row-X facing north and four stand in another row i.e. row-Y facing south. In this way, person in one row faces the person of other row.

Who faces C?
Statement I : A is second to the right of B, who is an immediate neighbor of D. E stands in row-Y and faces G, who is immediate left of H. C is on the immediate right of the one who faces A.
Statement II : F stands at the left end in row-Y. A is facing I, who is second to the left of E. A stands in row-X. C and F are the immediate neighbors of I.

A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
C. if the data either in statement I alone or in statement II alone is sufficient to answer the question.
D. If the data in both statement I and II together are not sufficient to answer the question.
E. If the data in both statement I and II together are necessary to answer the question.

2. In a fair, there are six types of rides viz. Roller Coaster, Ferris wheel, Fast Forward, Mad Bull, Big Beat and Loco Motion which are priced differently. Their prices ranged between Rs. 70 and Rs. 150.

What is the price of the ride which is priced second lowest?
Statement I : Loco Motion was priced 25 rupees higher than Big Beat. Roller Coaster was priced Rs. 110, which was not the highest price, but was higher than the price of Ferris Wheel.
Statement II : Big Beat was priced Rs. 80, which is just lower than that of Ferris Wheel, whose price is a multiple of 5. Only two rides were priced below Rs. 100. Big Beat and Mad Bull share the maximum difference of prices. The price of Loco Motion was 10 rupees more than that of Ferris wheel.

A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
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D. If the data in both statement I and II together are not sufficient to answer the question.
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3. Find the code for "drive"?

Statement I : 'slow move road' is coded as 'ge hu ba' and 'traffic rules drive' is coded as 'to la se'.
Statement II : 'road rules follow' is coded as 'hu ve la' and 'slow traffic change' is coded as 'to ba nu'.

A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
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4. Point Z is in which direction from Point B?

Statement I : Point X is towards 15m south of Point Y. Point Z is towards 5m west of Point X, which is 13m south-east of Point B.
Statement II : Point B is 6m west of Point X. Point Y is 12m east of Point Z, which is 8m to the north of Point X.

A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
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5. Find the code for "river"?

Statement I : 'work never down' is coded as 'ge hu ba' and 'my river work' is coded as 'to la se'.
Statement II : 'down river house' is coded as 'hu ve la' and 'work my friend' is coded as 'to ba nu'.

A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
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D. If the data in both statement I and II together are not sufficient to answer the question.
E. If the data in both statement I and II together are necessary to answer the question.

6. Six friends – Arun, Bani, Charu, Dina, Esha and Farah were born in different months of same year. The months are – January, April, June, October, November and December.

Who was born just before Arun?

Statement I : Esha and Charu were born in consecutive months. Arun was born in a month which has total number of days as even number. Neither Charu nor Esha was not born in the last.
Statement II : Arun was born just before Bani. Charu was born in a month which has total number of days as even number. Only two persons were born after Esha.

A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
C. If the data either in statement I alone or in statement II alone is sufficient to answer the question.
D. If the data in both statement I and II together are not sufficient to answer the question.
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7. A building has nine floors such that the lowermost floor is numbered as 1 and the floor above as 2 and so on.

Who lives on seventh floor?

Statement I : T lives on an odd numbered floor above floor number 3. G and R live on adjacent floors where G lives above R. There is a gap of two floors between J and Y, who lives on the bottom most floor.
Statement II : N lives on fifth floor which is at a gap of three floors from S. Y lives on the bottom most floor and is adjacent to B. R is on an even numbered floor above N and is adjacent to G.

A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
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D. If the data in both statement I and II together are not sufficient to answer the question.
E. If the data in both statement I and II together are necessary to answer the question.

8. Eight friends – G, H, I, J, K, L, M and N are sitting around a rectangular table facing inside such that two of them sit at each longer side and two of them sit at each shorter side . H faces whom?

Statement I : G is on the immediate left of J. H is second to the right of L, who is on the immediate left of K. M is an immediate neighbor of J.

Statement II : I and M are immediate neighbors.G who is second to the left of M, is not adjacent to I. H, who is third to the right of J, is not adjacent to G.

A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.

B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.

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D. If the data in both statement I and II together are not sufficient to answer the question.

E. If the data in both statement I and II together are necessary to answer the question.

9. What is the code for "rain fun"?

Statement I : "rain park water" is coded as "24 15 13" and "water animal name" is coded as "29 17 13".

Statement II : "fun animal rat" is coded as "59 17 10" and "rat rain water" is coded as "24 10 13".

A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.

B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.

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D. If the data in both statement I and II together are not sufficient to answer the question.

E. If the data in both statement I and II together are necessary to answer the question.

10. Five friends – A, B, C, D and E have different heights.

Who is the second tallest among all?

Statement I : A is taller than C, who is taller than E and B. D is not the tallest.

Statement II : B is taller than only E. A is taller than D and C.

A. If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.

B. If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.

C. If the data either in statement I alone or in statement II alone is sufficient to answer the question.

D. If the data in both statement I and II together are not sufficient to answer the question.

E. If the data in both statement I and II together are necessary to answer the question.

Correct Answers:

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

Explanations:

1. Eight persons are standing in two parallel rows, such that four persons stand in row-X facing north and four stand in another row i.e. row-Y facing south. In this way, person in one row faces the person of other row.

Who faces C?

Statement I: A is second to the right of B, who is an immediate neighbor of D. E stands in row-Y and faces G, who is immediate left of H. C is on the immediate right of the one who faces A.

Statement II: F stands at the left end in row-Y. A is facing I, who is second to the left of E. A stands in row-X. C and F are the immediate neighbors of I.
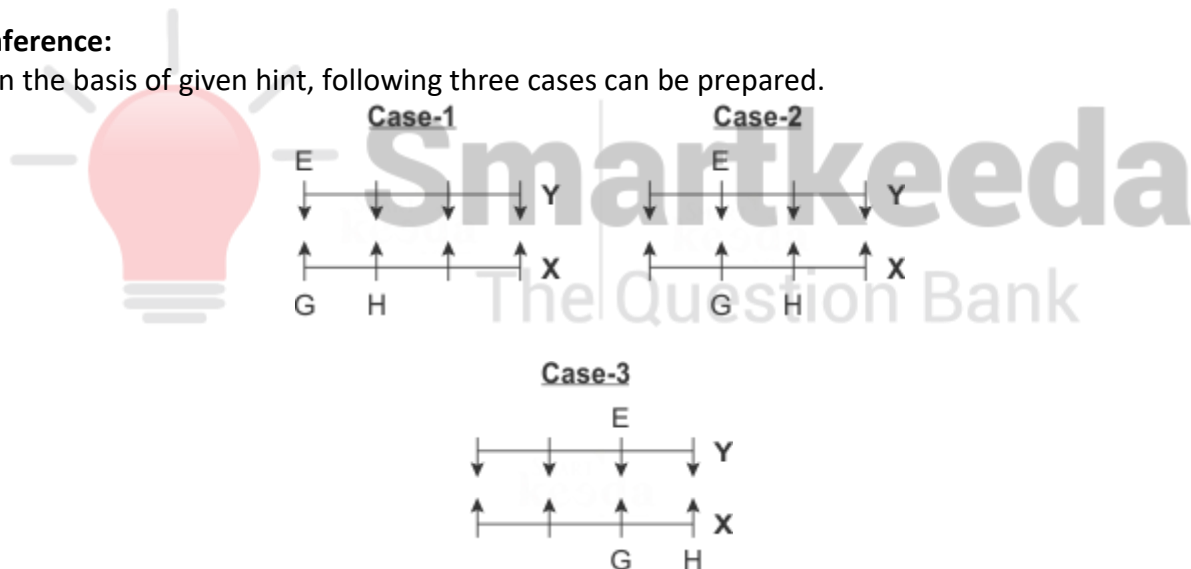
Checking statement I:

Reference:
E stands in row-Y and faces G, who is immediate left of H.

Inference:
On the basis of given hint, following three cases can be prepared.

Reference:
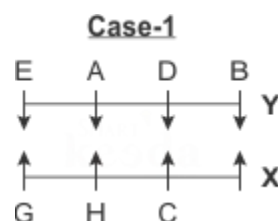A is second to the right of B, who is an immediate neighbor of D.
C is on the immediate right of the one who faces A.

Inference:
But as per first hint, **Case-3 gets eliminated**, as there is no place for B to sit adjacent with D.
Similarly **Case-2 also fails**, with respect to non-fulfillment of second hint.
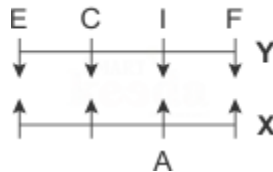Thus only case-1 persists in the following manner.

With this, it is clear that D faces C.

Hence data in statement I alone is sufficient to answer the question.

Checking statement II:
With the given hints, following image can be prepared.

With this arrangement, we cannot determine the person who faces C.

Hence data in statement II alone is not sufficient to answer the question.

Hence option A is correct.

2. In a fair, there are six types of rides viz. Roller Coaster, Ferris wheel, Fast Forward, Mad Bull, Big Beat and Loco Motion which are priced differently. Their prices ranged between Rs. 70 and Rs. 150.

What is the price of the ride which is priced second lowest?

Statement I: Loco Motion was priced 25 rupees higher than Big Beat. Roller Coaster was priced Rs. 110, which was not the highest price, but was higher than the price of Ferris Wheel.

Statement II: Big Beat was priced Rs. 80, which is just lower than that of Ferris Wheel, whose price is a multiple of 5. Only two rides were priced below Rs. 100. Big Beat and Mad Bull share the maximum difference of prices. The price of Loco Motion was 10 rupees more than that of Ferris Wheel.

Checking statement I:
Loco Motion > Big Beat

Thus, we cannot figure out the price of second lowest ride with the given hints.

Hence data in statement I alone is not sufficient to answer the question.

Checking statement II:
With the first hint, it is clear that Ferris Wheel has an immediate higher price than Big Beat.
Big Beat and Mad Bull share the maximum difference means that Mad Bull is the highest priced ride, because we know that Big Beat is priced Rs. 80, which can't be the highest price, so it the lowest price.

Mad Bull >_ >_ > _ > Ferris Wheel > Big Beat (80)

So, price of Ferris Wheel (second lowest priced ride) could be 85 or 90 or 95 or any other multiple of 5.

Hence data in statement II alone is not sufficient to answer the question.

Checking both statements I and II:

Reference:
Big Beat was priced Rs. 80, which is just lower than that of Ferris Wheel, whose price is a multiple of 5.
Loco Motion was priced 25 rupees higher than Big Beat.
The price of Loco Motion was 10 rupees more than that of Ferris Wheel.
Only two rides were priced below Rs. 100.

Inference:
With respect to first and second hint, price of Loco Motion can be fixed as Rs. 105.
Thus, with the help of third hint, price of Ferris Wheel can be determined as Rs. 95.

Loco motion (105) > Ferris Wheel (95) > Big Beat (80)

As only two rides are priced below Rs. 100, so Ferris Whell must be the second lowest priced ride.

Hence both the statements together are necessary to answer the question.

Hence option E is correct.

3. **Find the code for "drive"?**

Statement I: 'slow move road' is coded as 'ge hu ba' and 'traffic rules drive' is coded as 'to la se'.

Statement II: 'road rules follow' is coded as 'hu ve la' and 'slow traffic change' is coded as 'to ba nu'.

Checking statement I:
Code for the word drive cannot be found.

Hence data in statement I alone is not sufficient.

Checking statement II:
Code for the word drive cannot be found because it is not mentioned in statement II.

Hence data in statement II alone is not sufficient.

Checking both statements I and II:
Code for drive is 'se'.

Hence data in both the statements together is necessary to answer the question.
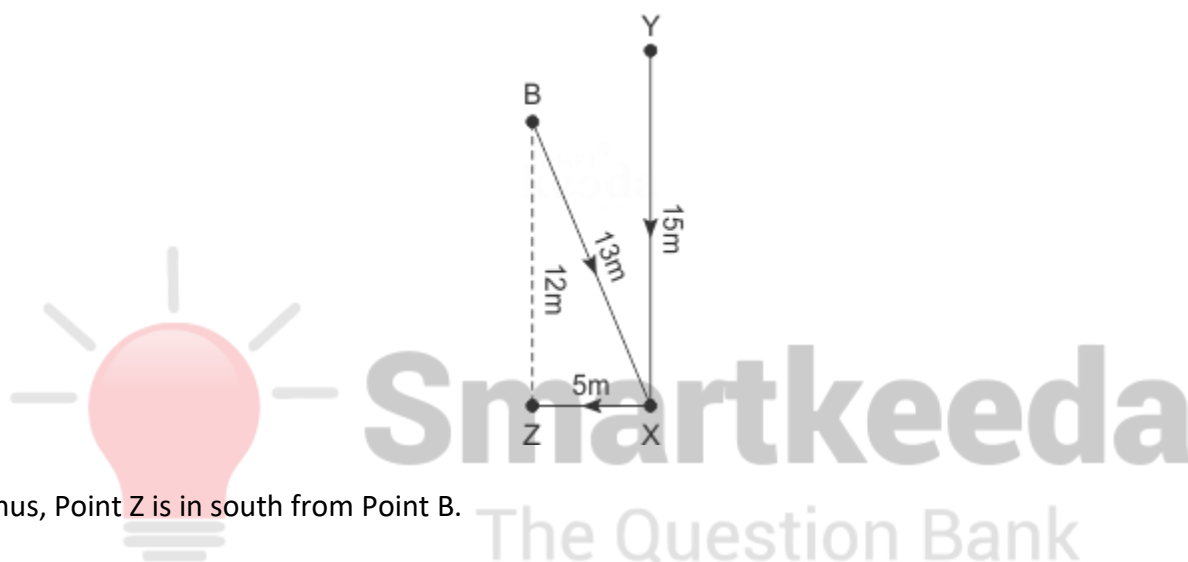
Hence option E is correct.

4. **Point Z is in which direction from Point B?**

Statement I: Point X is towards 15m south of Point Y. Point Z is towards 5m west of Point X, which is 13m south-east of Point B.

Statement II: Point B is 6m west of Point X. Point Y is 12m east of Point Z, which is 8m to the north of Point X.

Checking statement I:

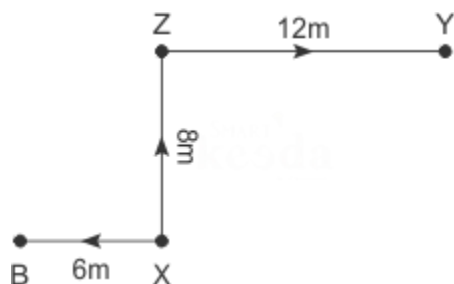We can have the following arrangement:

Thus, Point Z is in south from Point B.

Hence data in statement I alone is sufficient.

Checking statement II:

We can have the following arrangement:

Thus Point Z is in north-east from Point B.

Hence data in statement II alone is sufficient.

Hence data in either statement I or II is sufficient to answer the question.

Hence option C is correct.

5. **Find the code for "river"?**

Statement I: 'work never down' is coded as 'ge hu ba' and 'my river work' is coded as 'to la se'.

Statement II: 'down river house' is coded as 'hu ve la' and 'work my friend' is coded as 'to ba nu'.

Checking statement I:

Code for the word river cannot be found.

Hence data in statement I alone is not sufficient.

Checking statement II:

Code for the word river cannot be found.

Hence data in statement II alone is not sufficient.

Checking both statements I and II:

Code for river is 'la'.

Hence data in both the statements together is necessary to answer the question.

Hence option E is correct.

6. Six friends – Arun, Bani, Charu, Dina, Esha and Farah were born in different months of same year. The months are – January, April, June, October, November and December.

Who was born just before Arun?

Statement I: Esha and Charu were born in consecutive months. Arun was born in a month which has total number of days as even number. Neither Charu nor Esha was not born in the last.

Statement II: Arun was born just before Bani. Charu was born in a month which has total number of days as even number. Only two persons were born after Esha.

Checking statement I:

Months	Persons
January	
April	Arun/
June	Arun/
October	Esha/Charu
November	Charu/Esha
December	

Position of Arun is is not clear.

Hence data in statement I alone is not sufficient.

Checking statement II:

We can have the following arrangement:

Months	Case-1	Case-2	Case-3
	Persons	Persons	Persons
January	Arun/	Arun/	
April	Bani/Arun	Bani/	Charu
June	Bani	Charu	
October	Esha	Esha	Esha
November	Charu	Arun/	Arun
December		Bani/	Bani

From three different cases we are getting three different positions.

Hence data in statement II alone is not sufficient.

Checking both statements I and II:

Months	Persons
January	Dina/Farah
April	Arun
June	Bani
October	Esha
November	Charu
December	Farah/Dina

Either Dina or Farah was born just before Arun, but we are not getting one definite answer.

Hence data in both the statements together is not sufficient.

Hence option D is correct.

7. A building has nine floors such that the lowermost floor is numbered as 1 and the floor above as 2 and so on.

Who lives on seventh floor?

Statement I: T lives on an odd numbered floor above floor number 3. G and R live on adjacent floors where G lives above R. There is a gap of two floors between J and Y, who lives on the bottom most floor.

Statement II: N lives on fifth floor which is at a gap of three floors from S. Y lives on the bottom most floor and is adjacent to B. R is on an even numbered floor above N and is adjcaent to G.

Checking statement I:

Floor Number	Case-1 Persons	Case-2 Persons	Case-3 Persons
9			T
8			
7		T	
6			
5	T		
4	J	J	J
3			
2			
1	Y	Y	Y

Hence data in statement I alone is not sufficient.

Checking statement II:

Floor Number	Case-1 Persons	Case-2 Persons
9	S	S
8		R
7	G	G
6	R	
5	N	N
4		
3		
2	B	B
1	Y	Y

Clearly, G lives on 7th floor.

Hence data in statement II alone is sufficient.
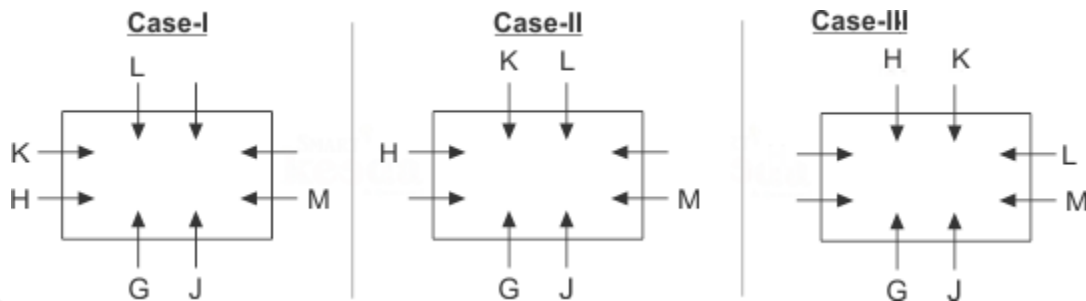
Hence option B is correct.

8. **Eight friends – G, H, I, J, K, L, M and N are sitting around a rectangular table facing inside such that two of them sit at each longer side and two of them sit at each shorter side . H faces whom?**

Statement I: G is on the immediate left of J. H is second to the right of L, who is on the immediate left of K. M is an immediate neighbor of J.

Statement II: I and M are immediate neighbors. G who is second to the left of M, is not adjacent to I. H, who is third to the right of J, is not adjacent to G.

Checking statement I:
Following three cases can be prepared from the hints given in statement I.
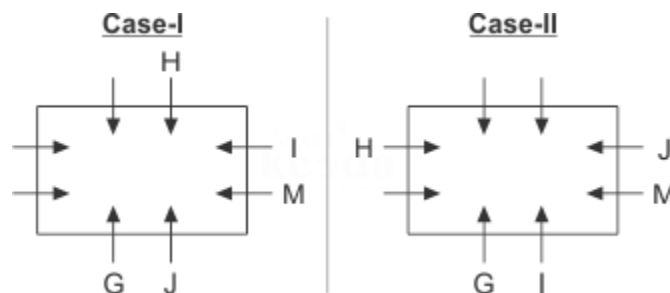

But we cannot determine whom does J face.

Hence data in statement I alone is not sufficient to answer the question.

Checking statement II:
Following two cases can be prepared from the hints given in statement I.

But in both the cases , clearly H faces J.

Hence data in statement II alone is sufficient to answer the question.

Hence, Option B is correct.

9. **What is the code for "rain fun"?**

Statement I: "rain park water" is coded as "24 15 13" and "water animal name" is coded as "29 17 13".

Statement II: "fun animal rat" is coded as "59 17 10" and "rat rain water" is coded as "24 10 13".

Checking statement I:
Code for 'fun' is not given.

Hence data in statement I is not sufficient to answer the question.

Checking statement II:
Code for fun cannot be determined.

Hence data in statement II is not sufficient to answer the question.

Checking statements I and II:
Code for "rain" is 24.
Code for fun is 59.

Thus code for "rain fun" is 24 59.

Hence data in both the statements is necessary to answer the question.

Hence option E is correct.

10. Five friends – A, B, C, D and E have different heights.

Who is the second tallest among all?

Statement I: A is taller than C, who is taller than E and B. D is not the tallest.

Statement II: B is taller than only E. A is taller than D and C.

Checking statement I:
A > C > E,B

But we don't know whether D or C is second tallest.

Hence data in statement I is not sufficient to answer the question.

Checking statement II:
A > D,C > B > E

But we don't know whether D or C is second tallest.

Hence data in statement II is not sufficient to answer the question.

Checking both the statements I and II:
Still we cannot determine the second tallest person.

Hence data in both the statements is not sufficient to answer the question.

Hence option D is correct.