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Reasoning Data Sufficiency Questions for SBI Clerk Mains, IBPS Clerk Mains, RBI Assistant Mains, LIC AAO, SBI PO Pre, IBPS PO Pre and RRB Scale I Pre Exams.

Reasoning DS Quiz 15

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. 7 books namely Book 1, Book 2, Book 3, Book 4, Book 5, Book 6 and Book 7 are of different weights.

Find the second lightest book?

Statement I : Book 1 is heavier than Book 4, which is just lighter than Book 3. Book 2 is not the lightest. Book 5 is just heavier than Book 3.

Statement II : Book 3 is heavier than only two books. Book 7 is just heavier than Book 1, which is heavier than Book 4. Book 4 is lighter than Book 3.

- A. If the data in statement I is sufficient to answer the question.
B. If the data in statement II is sufficient to answer the question.
C. If the data in either statement I or statement II is sufficient to answer the question.
D. If the data in both statement I and statement II is necessary to answer the question.
E. If the data in neither statement I nor statement II is sufficient to answer the question.

2. Eight persons from A to H sit around a circular table facing towards the centre.

What is the position of F with respect to B?

Statement I : E faces A, who is second to the left of D. G and B are immediate neighbors of A. F does not sit adjacent to H.

Statement II : B and D are not adjacent. C is on the immediate right of D. F sits at a gap of two persons from C. H is second to the left of B.

- A. If the data in statement I is sufficient to answer the question.
B. If the data in statement II is sufficient to answer the question.
C. If the data in either statement I or statement II is sufficient to answer the question.
D. If the data in both statement I and statement II is necessary to answer the question.
E. If the data in neither statement I nor statement II is sufficient to answer the question.

3. Find Point D is in which direction from Point A?

Statement I : Point A is in the west of Point B, which is to the north-east of Point D. Point C is in the north of Point D and Point A. Point A is in the middle of Point E and Point C.

Statement II : Point B is to the north of Point F, which is to the east of Point E. Point D is to the west of Point B. Point A is to the north of Point E.

- A. If the data in statement I is sufficient to answer the question.
- B. If the data in statement II is sufficient to answer the question.
- C. If the data in either statement I or statement II is sufficient to answer the question.
- D. If the data in both statement I and statement II is necessary to answer the question.
- E. If the data in neither statement I nor statement II is sufficient to answer the question.

4. Certain words are coded in the following manner in a code language.

Find the code for “thick tree”?

Statement I : “tree old stem” is coded as 26 84 15 and “stem stand thick” is coded as 10 26 45.

Statement II : “thick old wine” is coded as 13 84 10 and “tree old stand” is coded as 15 45 84.

- A. If the data in statement I is sufficient to answer the question.
- B. If the data in statement II is sufficient to answer the question.
- C. If the data in either statement I or statement II is sufficient to answer the question.
- D. If the data in both statement I and statement II is necessary to answer the question.
- E. If the data in neither statement I nor statement II is sufficient to answer the question.

5. A teacher wrote a meaningful English word on the black-board.

Find the exactly middle letter of the 5 letter word?

Statement I : The first and last letter of the word is ‘E’. The second and fourth letters of the word are consecutive letters in English alphabet series. R is adjacent to A.

Statement II : The first and last vowel is same. Only one letter is placed between A and E. S is written after R. The vowels are placed at odd numbered positions.

- A. If the data in statement I is sufficient to answer the question.
- B. If the data in statement II is sufficient to answer the question.
- C. If the data in either statement I or statement II is sufficient to answer the question.
- D. If the data in both statement I and statement II is necessary to answer the question.
- E. If the data in neither statement I nor statement II is sufficient to answer the question.

6. Six persons P to U are living in six storey building, where bottommost floor is numbered as 1 and above is 2 and so on, but not necessarily in the same order. How many persons live between Q and R?

Statement I : Q lives above T. U lives above P and there is only one person live between U and P. Minimum 3 persons live above T. R lives below P.

Statement II : R lives immediately above S, who lives in bottommost floor. T lives above R. Q lives above T, but not on the topmost floor. U lives above P.

- A. The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.
B. The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
C. The data either in statement I alone or in statement II alone are sufficient to answer the question.
D. The data given in both statements I and II together are not sufficient to answer the question.
E. The data in both statements I and II together are necessary to answer the question.

7. Seven cars namely A to G is parked in a row, but not necessarily in the same order and the distance between adjacent cars is equal. Consider all cars parked towards north direction. Which among the following car is parked in the middle of the row?

Statement I : Car C is parked to the immediate left of Car G. Only one car is parked between Car F and Car C. Three cars are parked between Car F and Car A, which is not parked at any of the extreme ends.

Statement II : Car A is parked second to the right of Car C. Two cars are parked between Car A and Car B, which is not parked at any of the extreme ends. Four cars are parked between Car B and Car E. Car D is parked second to the right of Car G.

- A. The data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.
B. The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
C. The data either in statement I alone or in statement II alone are sufficient to answer the question.
D. The data given in both statements I and II together are not sufficient to answer the question.
E. The data in both statements I and II together are necessary to answer the question.

8. Dabang tour was organized in six cities of UAE viz. Dubai, Sharjah, Abu Dhabi, Ajman, Hatta and Kalba not necessarily in the same order. In each city only one of the following actors performed – Salman, Katrina, Sonakshi, Jacqueline, Guru and Prabhu.

Who performed in Hatta?

Statement I : Prabhu performed in Ajman. Neither Katrina nor Salman performed in Sharjah. Jacqueline performed in Kalba. Salman did not perform in Hatta.

Statement II : Sonakshi performed in Abu Dhabi. Katrina performed either in Hatta or in Dubai. Guru did not perform in Hatta.

- 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.

9. 8 different letters – A, E, F, G, M, N, R and T are arranged to form an English word.

Find which letter is placed at fifth position?

Statement I : The word has only two letters placed between the vowels. The word starts with F. Only three letters are between R and E. One of the vowels is placed at an odd numbered position.

Statement II : The second last letter of the word is N. Only one letter is placed between M and N. F and A are placed at a gap of one letter. F and T are placed at extreme ends.

- 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.

10. Six persons – H, I, J, K, L and M are seated around a circular table. Only two of them face away from centre and rest face towards centre.

Find the position of J with respect to I?

Statement I : H is third to the right of K. M is to the immediate left of L, who faces inside. K does not face away from the centre. J is adjacent to either K or H.

Statement II : I is on the immediate right of H. H is second to the left of L. M faces outside. Only two persons sit between H and K.

- 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.



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Correct Answers:

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

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The Question Bank

Explanations:

1. 7 books namely Book 1, Book 2, Book 3, Book 4, Book 5, Book 6 and Book 7 are of different weights.

Find the second lightest book?

Statement I: Book 1 is heavier than Book 4, which is just lighter than Book 3. Book 2 is not the lightest. Book 5 is just heavier than Book 3.

Statement II: Book 3 is heavier than only two books. Book 7 is just heavier than Book 1, which is heavier than Book 4. Book 4 is lighter than Book 3.

Checking statement I:

Following arrangement can be prepared with the given hints:

Book 1 > Book 5 > Book 3 > Book 4

But we cannot find the second lightest book because we don't have information for all the books.

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

Checking statement II:

Following arrangement can be prepared with the given hints:

Book 3 > Book 4 > ___ or Book 3 > ___ > Book 4

Thus Book 4 could be or could not be the second lightest book.

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

Checking statements I and II:

Statement I: *Book 1 is heavier than Book 4, which is just lighter than Book 3.* Book 2 is not the lightest. Book 5 is just heavier than Book 3.

Statement II: *Book 3 is heavier than only two books.* Book 7 is just heavier than Book 1, which is heavier than Book 4. Book 4 is lighter than Book 3.

Using the hints given in italics, we can have the following arrangement.

Book 1 > Book 3 > Book 4 > ___

Thus we can determine Book 4 to be the second lightest book.

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

Hence option D is correct.

2. Eight persons from A to H sit around a circular table facing towards the centre.

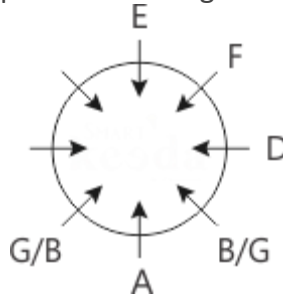
What is the position of F with respect to B?

Statement I: E faces A, who is second to the left of D. G and B are immediate neighbors of A. F does not sit adjacent to H.

Statement II: B and D are not adjacent. C is on the immediate right of D. F sits at a gap of two persons from C. H is second to the left of B.

Checking statement I:

Following arrangement can be prepared with the given hints:

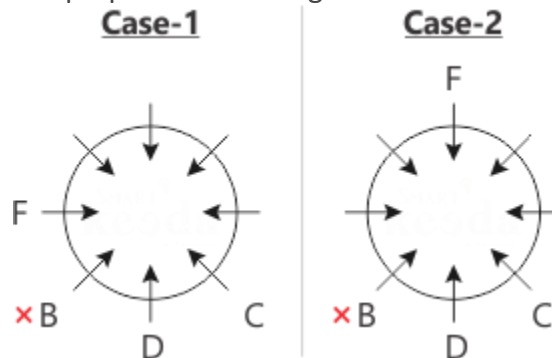


As position of B is not clear, thus we cannot determine the position of F with respect to B.

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

Checking statement II:

Following arrangement can be prepared with the given hints:



As position of B is not clear, thus we cannot determine the position of F with respect to B.

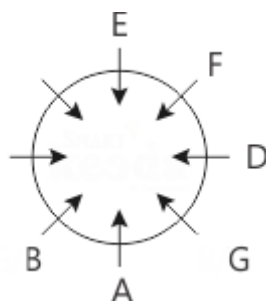
Hence data in statement II alone is not sufficient to answer the question.

Checking statements I and II:

Statement I: E faces A, who is second to the left of D. G and B are immediate neighbors of A. F does not sit adjacent to H.

Statement II: B and D are not adjacent. C is on the immediate right of D. F sits at a gap of two persons from C. H is second to the left of B.

Using the hints given in italics, we can have the following arrangement.



Note- We are not using the other hints deliberately because doing that will make certain hints clash with each other and a single arrangement can not be obtained so.

Thus F is fourth to the right/left of B.

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

Hence option D is correct.

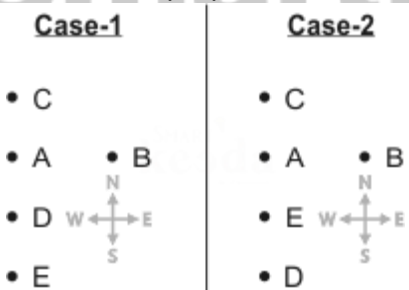
3. Find Point D is in which direction from Point A?

Statement I: Point A is in the west of Point B, which is to the north-east of Point D. Point C is in the north of Point D and Point A. Point A is in the middle of Point E and Point C.

Statement II: Point B is to the north of Point F, which is to the east of Point E. Point D is to the west of Point B. Point A is to the north of Point E.

Checking statement I:

From statement I following two cases can be prepared.

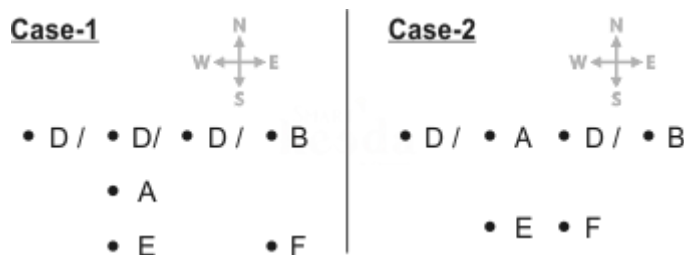


In both the cases point D is in south of Point A.

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

Checking statement II:

From statement II following cases can be prepared.



Here we cannot determine the direction of Point D with respect to Point A, as multiple possibilities arise here.

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

Hence option A is correct.

4. Certain words are coded in the following manner in a code language.

Find the code for “thick tree”?

Statement I: “tree old stem” is coded as 26 84 15 and “stem stand thick” is coded as 10 26 45.

Statement II: “thick old wine” is coded as 13 84 10 and “tree old stand” is coded as 15 45 84.

Checking statement I:

Codes for thick and tree cannot be found out.

Hence data in statement I is not sufficient.

Checking statement II:

Codes for thick and tree cannot be found out.

Hence data in statement II is not sufficient.

Checking statements I and II:

Code for thick is 10 and code for tree is 15.

Hence data in statement I and II together is necessary to answer.

Hence option D is correct.

5. A teacher wrote a meaningful English word on the black-board.

Find the exactly middle letter of the 5 letter word?

Statement I: The first and last letter of the word is ‘E’. The second and fourth letters of the word are consecutive letters in English alphabet series. R is adjacent to A.

Statement II: The first and last vowel is same. Only one letter is placed between A and E. S is written after R. The vowels are placed at odd numbered positions.

Checking statement I:

E _ _ _ E

The consecutive letters could be A – B or R-S or Q – R.

If we place, A-B then we get no meaningful English word.

EBRAE , EARBE

If we place R-S, then we get one meaningful English word.

ERASE

If we place R-Q, then we get no meaningful English word.

ERAQE , EQARE

Thus A is placed exactly in the middle.

Hence data in statement I is sufficient to answer.

Checking statement II:

Following two cases can occur.

Case-1: If the letter starts and ends with vowel 'A'.

A R E S A

Case-2: If the letter starts and ends with vowel 'E'.

ERASE

ERASE is meaningful English word. Thus the exactly middle letter is 'A'.

Hence data in statement II is sufficient to answer.

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

Hence option C is correct.

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6. Statement I:

Q lives above T. U lives above P and there is only one person live between U and P. Minimum 3 persons live above T. R lives below P.

Floor	Case-1	Case-2	Case-3
6	Q/	Q/	U
5	Q/	U	Q
4	U	Q/	P
3	T	P	R/T
2	P	R/T	R/T
1	R	R/T	R/T

Based on given statements, there are minimum 3 cases are possible. Hence Statement-I is not sufficient.

Statement II:

R lives immediately above S, who lives in bottommost floor. T lives above R. Q lives above T, but not on the topmost floor. U lives above P.

Floor	Case-1	Case-2	Case-3
6	U	U	U
5	Q	P	Q
4	P	Q	T
3	T	T	P
2	R	R	R
1	S	S	S

Based on given statements, there are 3 cases are possible. Hence Statement-II is not sufficient.

Combining statements I and II, we get the case-1 of statement-II as final arrangement, which satisfies all given conditions.

Floor	Case-1
6	U
5	Q
4	P
3	T
2	R
1	S

Two persons live between Q and R. Hence statement I and II are sufficient.

The data in both statements I and II together are necessary to answer the question.

Hence, option E is correct.

7. Statement I:

Car C is parked to the immediate left of Car G. Only one car is parked between Car F and Car C. Three cars are parked between Car F and Car A, which is not parked at any of the extreme ends.

North Direction

Case-1	F		C	G	A		
--------	---	--	---	---	---	--	--

Case-2		F		C	G	A	
--------	--	---	--	---	---	---	--

Case-3			A		C	G	F
--------	--	--	---	--	---	---	---

Case-4		A		C	G	F	
--------	--	---	--	---	---	---	--

Based on given statements, there are 4 cases are possible. Hence Statement-I is not sufficient

Statement II:

Four cars are parked between Car B and Car E.

Two cars are parked between Car A and Car B, which is not parked at any of the extreme ends.

Car A is parked second to the right of Car C.

North Direction

Case-1		B	C		A		E
--------	--	---	---	--	---	--	---

Case-2	E		A			B	
--------	---	--	---	--	--	---	--

Case-2 gets eliminated as there is no place for Car C

Car D is parked second to the right of Car G.

Case-1	F	B	C	G	A	D	E
--------	---	---	---	---	---	---	---

Finally Car F is parked at left end.

Car G is parked in middle of the row. Hence Statement-II is sufficient.

The data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question

Hence, option B is correct.

8. Dabang tour was organized in six cities of UAE viz. Dubai, Sharjah, Abu Dhabi, Ajman, Hatta and Kalba not necessarily in the same order. In each city only one of the following actors performed – Salman, Katrina, Sonakshi, Jacqueline, Guru and Prabhu.

Who performed in Hatta?

Statement I: Prabhu performed in Ajman. Neither Katrina nor Salman performed in Sharjah. Jacqueline performed in Kalba. Salman did not perform in Hatta.

Statement II: Sonakshi performed in Abu Dhabi. Katrina performed either in Hatta or in Dubai. Guru did not perform in Hatta.

Checking statement I:

Cities	Actors
Dubai	
Sharjah	Salman, Katrina
Abu Dhabi	
Ajman	Prabhu
Hatta	Salman
Kalba	Jacqueline

The actor who performed in Hatta can't be determined.
Hence data in statement I alone is not sufficient.

Checking statement II:

Cities	Actors
Dubai	
Sharjah	
Abu Dhabi	Sonakshi
Ajman	
Hatta	Guru
Kalba	

Still, the actor who performed in Hatta can't be determined.
Hence data in statement II alone is not sufficient.

Checking both statements I and II:

As Salman and Guru both didn't perform in Hatta, Thus it is Katrina, who performed in Hatta.

Cities	Actors
Dubai	
Sharjah	
Abu Dhabi	Sonakshi
Ajman	Prabhu
Hatta	Katrina
Kalba	Jacqueline

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

9. 8 different letters – A,E,F,G,M,N,R and T are arranged to form an English word.

Find which letter is placed at fifth position?

Statement I: The word has only two letters placed between the vowels. The word starts with F. Only three letters are between R and E. One of the vowels is placed at an odd numbered position.

Statement II: The second last letter of the word is N. Only one letter is placed between M and N. F and A are placed at a gap of one letter. F and T are placed at extreme ends.

Checking statement I:

As per the hints given in statement I, following arrangements can be prepared.

Case-1: When A is at odd numbered position i.e. third position

F	R	A			E		
---	---	---	--	--	---	--	--

Case-2: When E is at odd numbered position i.e. third

F		E			A	R	
---	--	---	--	--	---	---	--

Case-3: When A is at odd numbered position i.e. fifth

F	E			A	R		
---	---	--	--	---	---	--	--

Case-3A: When A is at odd numbered position i.e. fifth

F			R	A			E
---	--	--	---	---	--	--	---

Case-4: When E is at odd numbered position i.e. seventh

F		R	A			E	
---	--	---	---	--	--	---	--

But we cannot determine the fifth letter of the word as we are getting several different observations.

Hence data in statement I alone is not sufficient.

Checking statement II:

We can have following two cases.

T				M	A	N	F
---	--	--	--	---	---	---	---

F		A		M		N	T
---	--	---	--	---	--	---	---

In both the cases, M is clearly the fifth word.

Thus statement II is sufficient to answer the question.

Hence option B is correct.

10. Six persons – H, I, J, K, L and M are seated around a circular table. Only two of them face away from centre and rest face towards centre.

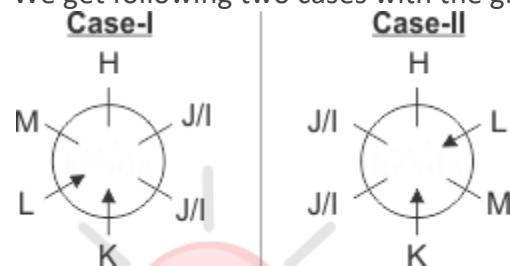
Find the position of J with respect to I?

Statement I: H is third to the right of K. M is to the immediate left of L, who faces inside. K does not face away from the centre. J is adjacent to either K or H.

Statement II: I is on the immediate right of H. H is second to the left of L. M faces outside. Only two persons sit between H and K.

Checking statement I:

We get following two cases with the given hints.



But we don't know the directions faced by I and J, thus the position of J with respect to I cannot be answered.

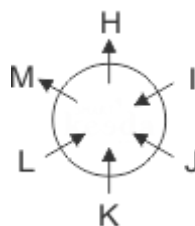
Hence data in statement I alone is not sufficient.

Checking statement II:

As we don't have any hint about J, so position of J with respect to I cannot be ascertained.

Hence data in statement II alone is not sufficient.

Checking both statements I and II:



Note- I and J will face centre because we have got two persons M and H who face away from centre. So, rest will face centre as per the given hint.

We can say that J is to the immediate left of I.

Hence data in both statements I and II together is necessary.

Hence option E is correct.



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