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

Reasoning DS Quiz 13

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

1. In a football tournament, there were seven goalkeepers namely B to H, who saved different number of goals. Was the goals saved by F more than that of C?

Statement I: G saved more goals than only two goalkeepers. B saved more goals than D, who was the third highest goal saver. F saved lesser goals than D but more than G.

Statement II: C saved more goals than E but lesser than D. The goals saved by G was more than C. B was not the highest goal saver.

Statement III: H saved more goals than D. Number of goals saved by B was less than one goalkeeper only. F saved more goals than G and E.

- A. If the data in statement I and II together is sufficient.
- B. If the data in statement II and III together is sufficient.
- C. If the data in all the statements together is necessary.
- D. If the data in all the statements together is not sufficient.
- E. If the data in any two of the three statements is sufficient.

2. What is the code for 'win like never'?

Statement I: "record inning win" is coded as "fe gu pu" and "party like win" is coded as "ho sa fe".

Statement II: "never steal money" is coded as "ca mo pi" and "gamble money winner" is coded as "be pi ta".

Statement III: "never forget inning" is coded as "mo gu je" and "steal party tonight" is coded as "sa de ca".

- A. If the data in statement I and II together is sufficient.
- B. If the data in statement II and III together is sufficient.
- C. If the data in all the statements together is necessary.
- D. If the data in all the statements together is not sufficient.
- E. If the data in any two of the three statements is sufficient.

3. Seven subjects viz. English, Hindi, Maths, Science, Art, GK and Computer were taught in a tuition on seven days of a week starting from Monday such that only one subject is taught on one day.

How many subjects are taught between Hindi and Art?

Statement I: Only two subjects were taught before Computer, which is taught just before Art. English was neither the first nor the last subject to be taught. Science was taught on Saturday.

Statement II: Hindi was not the last subject to be taught. Art was taught before GK. English was not the first subject to be taught.

Statement III: Art and GK were taught at a gap of one day. Science was taught immediately before Maths. Computer was taught on Wednesday.

- A. If the data in statement I and II together is sufficient.
- B. If the data in statement II and III together is sufficient.
- C. If the data in all the statements together is necessary.
- D. If the data in all the statements together is not sufficient.
- E. If the data in any two of the three statements is sufficient.

4. A 7-letter meaningful English word is written somewhere. Find the exactly middle letter of that word?

Statement I: The word comprises of three different vowels and third and seventh letter of the word is same. The word ends with 'N'. T is adjacent to one of the vowels.

Statement II: The word starts with 'C'. One of the vowels used is 'O' and placed at second position from left end. T is adjacent to A.

- 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 II 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.

5. Seven persons from A to G are standing in a row, such that some of them face south while some face in north direction.

Is D third to the left of B?

Statement I: B is at a gap of two persons from C, who is at an extreme end. D is on immediate right of G, who is neither adjacent to C nor faces North. A is at a gap of one person from D.

- A. **Statement II:** Only G is adjacent to D, who faces North. C and D are at the extreme ends of the row. C is fourth to the right of B.
- 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 II 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.

6. Five friends – J, K, L, M and N were discussing their heights.

Who is the second tallest?

Statement I: J is shorter than two persons only. N is taller than only K but shorter than L.

Statement II: M is taller than L. N is shorter than J but taller than K, who is the shortest.

- 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.

7. 6 films – Sanju, Padmavat, Rajneeti, Dangal, Tubelight and Dabang were telecasted on 6 movie channels viz. Sony Max, Star Gold, Zee Cinema, UTV Movies, &pictures and B4U movies such that only one film was telecasted on one channel.

Which film was telecasted on Zee Cinema?

Statement I: Either Tubelight or Rajneeti was telecasted on B4U movies. The movie name that has exactly two vowels was telecasted on Zee Cinema. Dabang was telecasted on Star Gold.

Statement II: Padmavat was telecasted on Sony Max. The movie whose name starts with 'D' was telecasted on UTV movies. Rajneeti was neither telecasted on Zee Cinema nor on Star Gold.

Statement III: Sanju was not telecasted on B4U movies. Dangal was telecasted on the channel whose name has the word 'movies' in it. Tubelight was telecasted on &pictures.

- A. If the data in statement I and II together is sufficient.
- B. If the data in statement II and III together is sufficient.
- C. If the data in all the statements together is necessary.
- D. If the data in both statement I and either statement II or III is sufficient to answer the question.
- E. If the data in any two of the three statements is sufficient.

8. Six persons from A to F are seated around a triangular table such that three of them sit at the corners and three in the middle of the sides. All of them face center.

What is the position of B with respect to F?

Statement I: C sits immediate left of D, who is second to the right of B. F is neither an immediate neighbor of D nor C.

Statement II: C is second to the right of E, who is not seated next to A. B and C are adjacent to each other.

Statement III: A is second to the left of E. Number of persons between A and C is equal to the number of persons between B and D.

- A. If the data in both statement I and II together is sufficient to answer the question.
- B. If the data in both statement II and III together is sufficient to answer the question.
- C. If the data in both statement I and III together is sufficient to answer the question.
- D. If the data in all the statements together are necessary to answer the question.
- E. If the data in statement I and either statement II or III together are sufficient to answer the question.

9. A family consists of nine persons viz. A to I across three generations.

Who is the sister of H?

Statement I: B is the mother of D, who is the only brother of H. I and E are the daughters of C, who is the wife of H.

Statement II: A is the aunt of E, who is the daughter of C. J is the father-in-law of G, who does not have any child.

Statement III: A is the only daughter of F who is married to B. A is not married and belongs to second generation.

- A. If the data in both statement I and II together is sufficient to answer the question.
- B. If the data in both statement II and III together is sufficient to answer the question.
- C. If the data in both statement I and III together is sufficient to answer the question.

- D. If the data in all the statements together are necessary to answer the question.
- E. If the data in all the statements together are not sufficient to answer the question.

10. A number contains 7 digits from 0 to 9 is written on a notebook such that a digit is not repeated in the number.

Find the sum of hundreds and tens digits of the number?

Statement I: The unit digit of the number is the smallest odd prime number. The difference between the tens digit and hundreds digits is 3, neither of the digits is composite. The number starts with 7.

Statement II: The number contains three even digits. The tens digit of the number is the smallest even number. The sum of the thousands and hundreds digit is 8.

- 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 answer:

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

Explanation:

1. In a football tournament, there were seven goalkeepers namely B to H, who saved different number of goals. Was the goals saved by F more than that of C?

Statement I: G saved more goals than only two goalkeepers. B saved more goals than D, who was the third highest goal saver. F saved lesser goals than D but more than G.

Statement II: C saved more goals than E but lesser than D. The goals saved by G was more than C. B was not the highest goal saver.

Statement III: H saved more goals than D. Number of goals saved by B was less than one goalkeeper only. F saved more goals than G and E.

Checking statement I and II together:

With the given hints we can draw the following sequence:

_ > B > D > F > G > C > E

Thus we can clearly see that F saved more goals than C

Hence data in statement I and II together is sufficient.

Checking statement II and III together:

With the given hints we can draw the following sequence:

F > G > C > E

As F saved more goals than G who saved more goals than C, Thus F automatically saved more goals than C as well.

Hence data in statement II and III together is sufficient.

Checking all statements I and III:

With the given hints we can draw the following sequence:

H > B > D > F > G > E > _

The only vacant position is filled by C and thus we can definitely see that F saved more goals than C.

Hence data in statement I and III together is sufficient.

In this way Any two of the given statements is sufficient to answer the question.

Hence option E is correct.

2. What is the code for 'win like never'?

Statement I: "record inning win" is coded as "fe gu pu" and "party like win" is coded as "ho sa fe".

Statement II: "never steal money" is coded as "ca mo pi" and "gamble money winner" is coded as "be pi ta".

Statement III: "never forget inning" is coded as "mo gu je" and "steal party tonight" is coded as "sa de ca".

Checking statement I and II together:

record inning win - fe gu pu (1)

party like win - ho sa fe(2)

never steal money - ca mo pi(3)

gamble money winnner - be pi ta(4)

With this we cannot find the code for 'never and like'.

Hence data in statement I and II together is not sufficient.

Checking statement II and III together:

never steal money - ca mo pi(1)

gamble money winnner - be pi ta(2)

never forget inning - mo gu je(3)

steal party tonight - sa de ca(4)

With this we cannot find the code for 'win and like'.

Hence data in statement II and III together is not sufficient.

Checking all statements I, II and III:

Following schedule can be drawn with the given hints.

record inning win - fe gu pu (1)

party like win - ho sa fe(2)

never steal money - ca mo pi(3)

gamble money winnner - be pi ta(4)

never forget inning - mo gu je(5)

steal party tonight - sa de ca(6)

From (1) and (2), win - fe ... (7)

From (2) and (6), party - sa ... (8)

From (2),(7) and (8), like - ho..(9)

From (3) and (5), never - mo.. (10)

Hence data in all the statements I, II and III are necessary to answer the question.

Hence option C is correct.

3. Seven subjects viz. English, Hindi, Maths, Science, Art, GK and Computer were taught in a tution on seven days of a week starting from Monday such that only one subject is taught on one day.

How many subjects were taught between Hindi and Art?

Statement I: Only two subjects were taught before Computer, which is taught just before Art. English was neither the first nor the last subject to be taught. Science was taught on Saturday.

Statement II: Hindi was not the last subject to be taught. Art was taught before GK. English was not the first subject to be taught.

Statement III: Art and GK were taught at a gap of one day. Science was taught immediately before Maths. Computer was taught on Wednesday.

Checking statement I and II together:

Following schedule can be drawn with the given hints.



Day	Subject
Monday	
Tuesday	
Wednesday	Computer
Thursday	Art
Friday	GK/
Saturday	Science
Sunday	GK/

With the given data we cannot find the day on which Hindi is taught, thus we cannot answer the given question.

Hence data in statement I and II together is not sufficient.

Checking statement II and III together:

Following schedule can be drawn with the given hints.

Day	Subject
Monday	English
Tuesday	
Wednesday	Computer
Thursday	
Friday	
Saturday	
Sunday	Hindi

With the given data we cannot find the day on which Hindi and Art is taught, thus we cannot answer the given question.

Hence data in statement II and III together is not sufficient.

Checking all statements I, II and III:

Following schedule can be drawn with the given hints.

Day	Subject
Monday	English
Tuesday	
Wednesday	Computer
Thursday	Art
Friday	
Saturday	Science
Sunday	Hindi

As the informations that Art and GK were taught at a gap of one day and Art was taught before GK and immediately after Computer, also Science was taught on Saturday overlap with each other, thus no definite answer can be inferred.

Hence data in all the statements I, II and III are not sufficient to answer the question.

Hence option D is correct.

4. A 7-letter meaningful English word is written somewhere. Find the exactly middle letter of that word?

Statement I: The word comprises of three different vowels and third and seventh letter of the word is same. The word ends with 'N'. T is adjacent to one of the vowels.

Statement II: The word starts with 'C'. One of the vowels used is 'O' and placed at second position from left end. T is adjacent to A.

Checking statement I:

With the given data in statement I, we can find only the third and last letter of the word as 'N', but not the whole word.

Hence data in statement I alone is not sufficient.

Checking statement II:

With the data given in statement II, we can have the following inference:

C O _ _ _ _

Hence data in statement II alone is not sufficient.

Checking both statements I and II:

With statement II we have known the first two letters and statement I, we get to know third and last letters of the word, now let us check the other related hints.

C O N _ _ _ N

T is adjacent to A, this can be used as:

C O N T A _ N or

C O N _ T A N or

C O N A T _ N or

C O N _ A T N

But it has to be a meaningful English word thus between I and U, only vowel 'I' suits the blank and the meaningful word do formed is "CONTAIN".

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

Hence option E is correct.

5. Seven persons from A to G are standing in a row, such that some of them face south while some face in north direction.

Is D third to the left of B?

Statement I: B is at a gap of two persons from C, who is at an extreme end. D is on immediate right of G, who is neither adjacent to C nor faces North. A is at a gap of one person from D.

Statement II: Only G is adjacent to D, who faces North. C and D are at the extreme ends of the row. C is fourth to the right of B.

Checking statement I:

The hints given in statement I can be used as per the following two cases.

Case-1



Case-2



As the direction faced by B is unknown, thus the given question can't be answered.

Hence data in statement I alone is not sufficient.

Checking statement II:

With the hints mentioned in statement II following two cases can be drawn.

Case-1



Case-2



In both the cases, D is not third to the left of B.

Hence data in statement II alone is sufficient.

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

Hence option B is correct.

6. Five friends – J, K, L, M and N were discussing their heights.

Who is the second tallest?

Statement I: J is shorter than two persons only. N is taller than only K but shorter than L.

Statement II: M is taller than L. N is shorter than J but taller than K, who is the shortest.

Checking statement I:

We can have the following order:

_ > L > J > N > K or

L > _ > J > N > K

But we cannot determine the second tallest person.

Hence data in statement I alone is not sufficient.

Checking statement II:

With the hints mentioned in statement II following order can be drawn.

J > N > K

but we cannot draw relationship od Ma nd L further with J , N and K as there is no connecting statement given.

Hence data in statement II alone is not sufficient.

Checking Both statements I and II:

On combining both the statements we can draw the following order:

M > L > J > N > K

L is the second tallest.

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

Hence option E is correct.

7. 6 films – Sanju, Padmavat, Rajneeti, Dangal, Tubelight and Dabang were telecasted on 6 movie channels viz. Sony Max, Star Gold, Zee Cinema, UTV Movies, &pictures and B4U movies such that only one film was telecasted on one channel.

Which film was telecasted on Zee Cinema?

Statement I: Either Tubelight or Rajneeti was telecasted on B4U movies. The movie name that has exactly two vowels was telecasted on Zee Cinema. Dabang was telecasted on Star Gold.

Statement II: Padmavat was telecasted on Sony Max. The movie whose name starts wth 'D' was telecasted on UTV movies. Rajneeti was neither telecasted on Zee Cinema nor on Star Gold.

Statement III: Sanju was not telecasted on B4U movies. Dangal was telecasted on the channel whose name has the word 'movies' in it. Tubelight was telecasted on &pictures.

Statement I and II:

The only movie after Dabang that starts with letter 'D' is Bangal, so Dangal was telecasted on UTV movies.

As Rajneeti was not telecasted on Zee Cinema, so the only channel left for it is &pictures in Case1. And therefore the only left movies i.e. Sanju was telecasted on Zee Cinema.

The movie names that has exactly two vowels are – Sanju, Dabang and Dangal.

Dabang and Dangal have already telecasted on other channels, so the only left movies is Sanju to be telecasted on Zee Cinema in Case 2 as well.

Channels	Case-1	Case-2
	Films	Films
Star Gold	Dabang	Dabang
Sony Max	Padmavat	Padmavat
Zee Cinema	Sanju	Sanju
B4U Movies	Tubelight	Rajneeti
UTV movies	Dangal	Dangal
&pictures	Rajneeti	

Therefore data in statement I and II is sufficient to answer the question.

Statement II and III:

Case 2 eliminated as Dangal was telecasted on the channel having word 'movies' in it.

As per Case1, two movies are left which are – Dabang and Sanju.

Channels	Case-1	Case-2 Eliminated
	Films	Films
Star Gold	Rajneeti	Rajneeti
Sony Max	Padmavat	Padmavat
Zee Cinema	Rajneeti	Rajneeti
B4U Movies	Rajneeti	Rajneeti
UTV movies	Dangal	Dabang
&pictures	Tubelight	Tubelight

Thus Either Sanju or Dabang could have telecasted on Zee Cinema.

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

Statement I and III:

The Question Bank

The only movie left which has exactly two vowels in its name is Sanju, so it is telecasted on Zee Cinema.

Channels	Case-1	Case-2
	Films	Films
Star Gold	Dabang	Dabang
Sony Max		
Zee Cinema	Sanju	Sanju
B4U Movies	Rajneeti	Rajneeti
UTV movies	Dangal	Dangal
&pictures	Tubelight	Tubelight

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

Thus Data in both statement I and either statement II or III is sufficient to answer the question.

Hence option D is correct.

8. Six persons from A to F are seated around a triangular table such that three of them sit at the corners and three in the middle of the sides. All of them face center.

What is the position of B with respect to F?

Statement I: C sits immediate left of D, who is second to the right of B. F is neither an immediate neighbor of D nor C.

Statement II: C is second to the right of E, who is not seated next to A. B and C are adjacent to each other.

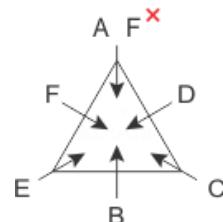
Statement III: A is second to the left of E. Number of persons between A and C is equal to the number of persons between B and D.

Checking statement I and II:

Statement I: C sits immediate left of D, who is second to the right of B. F is neither an immediate neighbor of D nor C.

Statement II: C is second to the right of E, who is not seated next to A. B and C are adjacent to each other.

Following image can be made using the given hints.



Thus F is second to the left of B or fourth to the right of B.

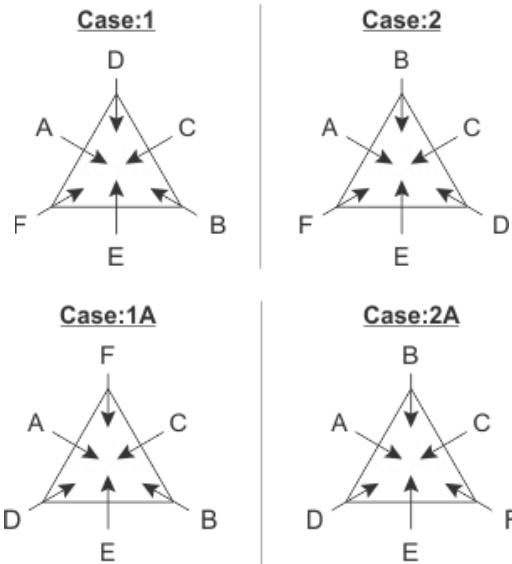
Hence data in statement I and II is sufficient.

Checking statement II and III:

Statement II: C is second to the right of E, who is not seated next to A. B and C are adjacent to each other.

Statement III: A is second to the left of E. Number of persons between A and C is equal to the number of persons between B and D.

Following four cases arise from the given hints.



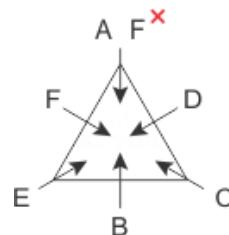
We cannot come at a single conclusion from the above cases.

Hence data in statement II and III is not sufficient.

Checking statements I and III:

Statement I: C sits immediate left of D, who is second to the right of B. F is neither an immediate neighbor of D nor C.

Statement III: A is second to the left of E. Number of persons between A and C is equal to the number of persons between B and D.



Clearly, F is second to the left of B or fourth to the right of B.

Hence data in both statements I and III together is sufficient to answer the question.

Therefore data in statement I and either statement II or III is sufficient to answer the question.

Hence option E is correct.

9. A family consists of nine persons viz. A to I across three generations.

Who is the sister of H?

Statement I: B is the mother of D, who is the only brother of H. I and E are the daughters of C, who is the wife of H.

Statement II: A is the aunt of E, who is the daughter of C. J is the father-in-law of G, who does not have any child.

Statement III: A is the only daughter of F who is married to B. A is not married and belongs to second generation.

Checking statement I and II:

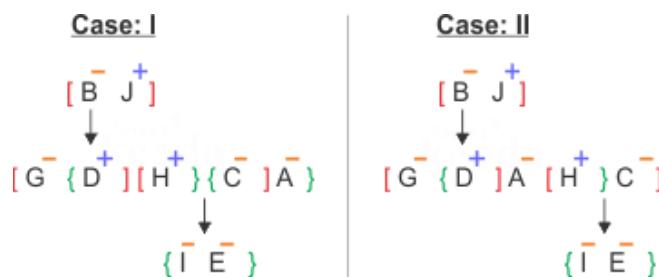
Statement I: B is the mother of D, who is the only brother of H. I and E are the daughters of C, who is the wife of H.

Statement II: A is the aunt of E, who is the daughter of C. J is the father-in-law of G, who does not have any child.

Following two case arises from statements I and II.

Case I: When A is the sister of C and thus, the maternal aunt of E.

Case II: When A is the sister of H and thus the paternal aunt of E.



Thus we can't surely determine that A is the sister of H or not.

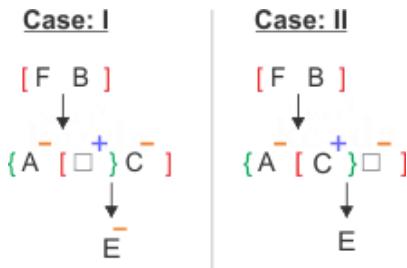
Hence data in statement I and II is not sufficient.

Checking statement II and III:

Statement II: A is the aunt of E, who is the daughter of C. J is the father-in-law of G, who does not have any child.

Statement III: A is the only daughter of F who is married to B. A is not married and belongs to second generation.

Following two cases arise.



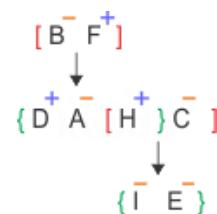
But we have no hint about H.

Hence data in statement II and III is not sufficient.

Checking statements I and III:

Statement I: B is the mother of D, who is the only brother of H. I and E are the daughters of C, who is the wife of H.

Statement III: A is the only daughter of F who is married to B. A is not married and belongs to second generation.



Clearly, A is the sister of H.

Hence data in both statement I and III together is sufficient to answer the question.

Hence option C is correct.

10. A number contains 7 digits from 0 to 9 is written on a notebook such that a digit is not repeated in the number.

Find the sum of hundreds and tens digits of the number?

Statement I: The unit digit of the number is the smallest odd prime number. The difference between the tens digit and hundreds digits is 3, neither of the digits is composite. The number starts with 7.

Statement II: The number contains three even digits. The tens digit of the number is the smallest even number. The sum of the thousands and hundreds digit is 8.

Checking statement I:

The digits of the number would be from 0 to 9 and one digit is not repeated.

The smallest odd prime number is 3, so the number ends with 3 and starts with 7.

7_____3

The numbers whose difference is 3 are – (5 - 2), (7 - 4), but both the digits should be prime, so the tens and hundreds digit would be 2 and 5 not necessarily in the same order.

Sum of hundreds and tens digit is 7.

Hence data in statement I alone is sufficient.

Checking statement II:

The digits of the number would be from 0 to 9 and one digit is not repeated.

The smallest even number is 2, thus tens digit is 2.

_____2_

The digits whose sum is 8 are (0-8), (2-6) and (3,5), out of which (6-2) is an invalid combination as 2 is already placed as tens digit.

The thousands and hundreds digits could be 0- 8 or 3-5.

Hence data in statement II alone is not sufficient.

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

Hence option A is correct.

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