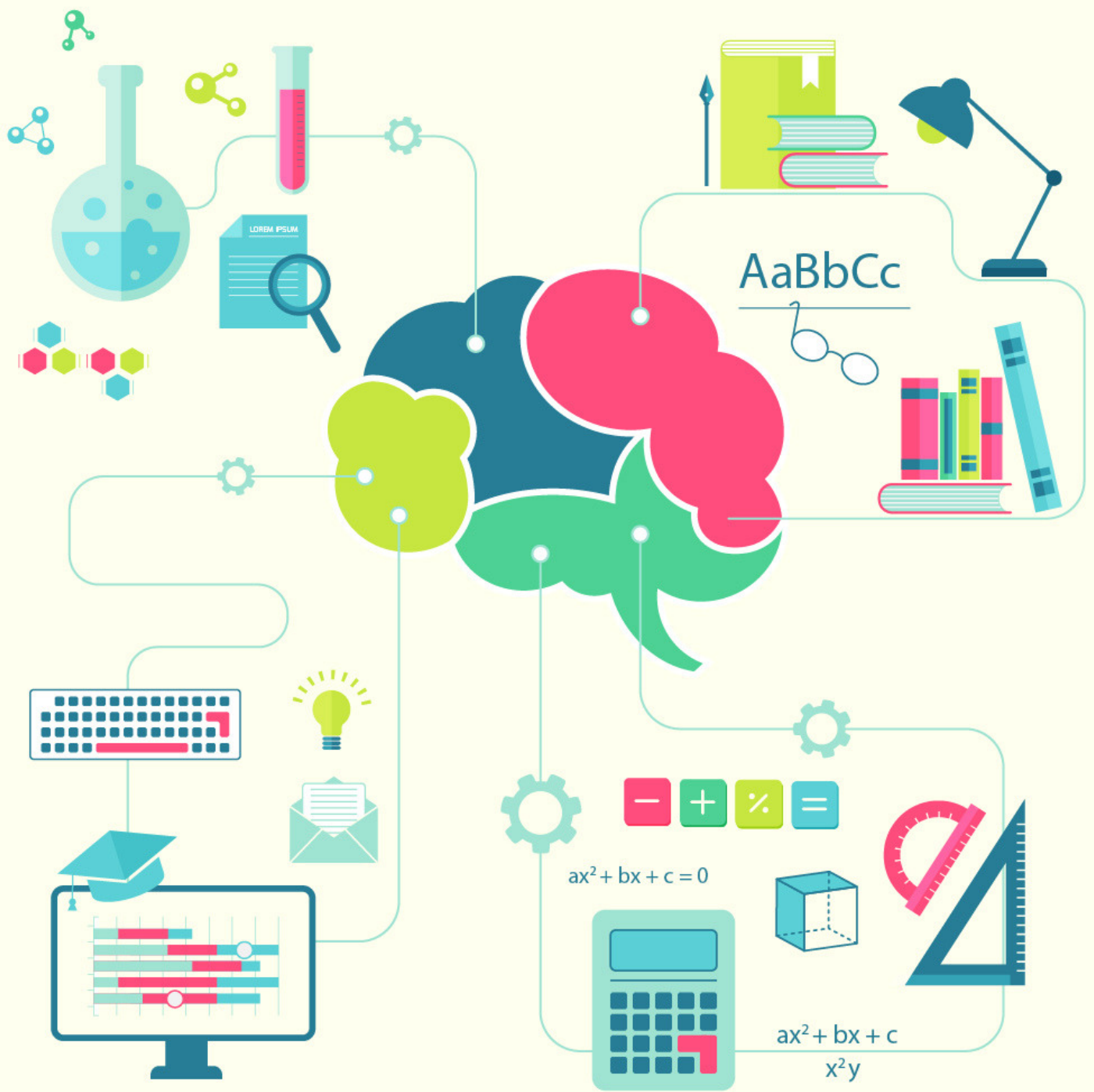


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Circular Seating Arrangement Problems With Solutions For CAT PDF





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Instructions: Based on the information given below, answer the questions which follow.

The presidents of cricket boards of 8 different test playing nations met in Sydney to discuss the new rules and regulations of the game. A, B, C, D, E, F, G and H are the presidents of cricket boards of India, Pakistan, Sri Lanka, West Indies, England, New Zealand, Australia and South Africa, not necessarily in the same order. Further the following information is known-

1. All of them are seated around a circular table. Mr. F was seated to the right of the president of the England's cricket board with one person between them.
2. The presidents of English Board and South African board are seated next to each other.
3. Mr. C and Mr. E are seated next to each other but none of them are seated next to Mr. B
4. There are two presidents sitting between Mr. B and the president of South African cricket board.
5. Mr. E was sitting opposite to English board's president.

Question 1: If Mr. G was sitting next to the person from New Zealand and none of them were next to Mr. B, then which of the following countries does Mr. F belong to?

- a) Australia
- b) Pakistan
- c) New Zealand
- d) cannot be determined

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Question 2: For how many people can their country be determined?

- a) 1
- b) 2
- c) 3
- d) none

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Question 3: If it is known that the Australian board's president was sitting on the second chair to the right of Mr. D, then who are the neighbors of Mr. D?

- a) E and B
- b) F and G
- c) B and H
- d) cannot be determined

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Question 4: If the Indian board's president and Mr. C had a common neighbor, then which of the following is necessarily true. (Use information from the previous questions, if required)

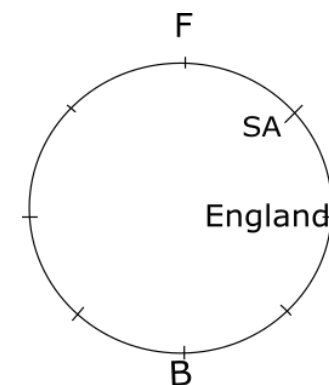
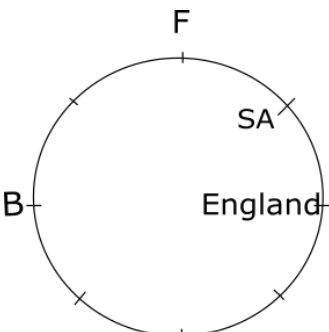
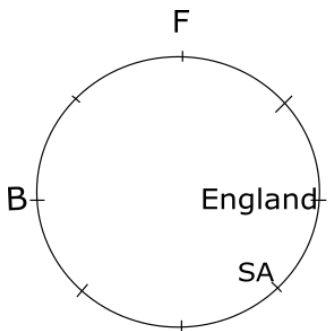
- a) H is sitting opposite to C
- b) Indian and South African presidents are opposite to each other
- c) I is the president of the English cricket board.
- d) More than 1 of the above

Answers & Solutions:

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Solutions for (1 to 4):

From statement 2, 3 and 4 we have the following three possibilities,



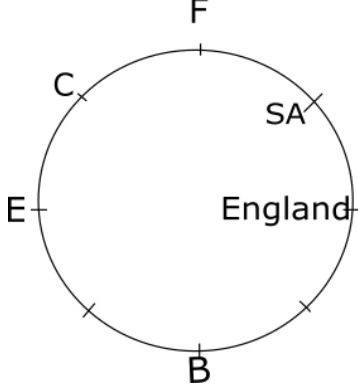
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But from statement 5 we can rule out the first two possibilities and only third possibility is left. Hence we have the following arrangement that is known to us



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Answers for (1 to 4)

1) Answer (C)

Hence we cannot determine the country for any person.

2) Answer (D)

From this arrangement we can see that G can only be from South Africa. Hence F must belong to New Zealand.

3) Answer (D)

From this arrangement, we can see that D can be seated either between E and B or at English President's position or between F and English president. So we cannot determine the neighbors of D.

4) Answer (B)

From the information in the previous questions we know that G belongs to South Africa and F belongs to New Zealand, so Indian president must be sitting between E and B.

So Statement 2 is definitely true. Statement 1 and 3 need not be true in all cases. So option b is the correct answer.

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