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## Seating Arrangement Questions for IBPS PO Mains, SBI PO Mains & RBI Grade B Exams.

### Set No 44

**Directions: Study the following information carefully and answer the questions given beside.**

12 people of a social group are sitting around a rectangular table. 6 are sitting at inner edge and 6 are sitting at outer edge. Out of 6 at each edge, 2 are sitting at each longer side and 1 is sitting at each shorter side. People on outer edge and inner edge are facing each other.

Vida's age is 2 years more than half of the Sasha's age and she is sitting on a longer side of the inside edge and facing north.

Sara is sitting opposite to Alan who is 18 years old.

Kate is sitting on a shorter side and opposite to Mark, who is facing west and 23 years old.

Mario is sitting on a shorter side of inside edge and he is six years older than Alan.

Betty is on the right seat of a longer side of outer edge and she is oldest person on the table with 35 years of age.

Scott is sitting on left corner of the longer side of outer edge and his age is 6 years more than half of the age of Sara.

Sasha is sitting opposite to the Kay who is on the right side of the person sitting opposite to Angela.

Kate is 12 years older than Scott.

Difference in ages of Vida and Angela is a multiple of seven, where Angela is older than Vida.

Alan is 4 year younger than Scott and he is sitting on the longer side of outer edge.

Kay and Sara both are of equal age and both are facing on the same direction.

Adam is 24 years old and his age is average of ages of Scott, Vida, Sasha and Angela.

**1. Who among the following is 30 years old?**

- A. Vida                      B. Kate                      C. Angela                      D. Sasha                      E. None of these

**2. Who among the following sits opposite to one who is 16 years old?**

- A. Alan                      B. Betty                      C. Scott                      D. Sasha                      E. Kate

**3. Find the absolute difference of the ages of Betty and Kate?**

- A. 5                      B. 3                      C. 4                      D. 1                      E. Either 1 or 3

**4. Find the sum of the ages of Vida and Sasha?**

- A. 44                      B. 50                      C. 40                      D. 45                      E. Either 44 or 50

**5. Four of the following five are alike in a certain way as per the given arrangement and hence form a group. Which of the following does not belongs to that group?**

- A. Mark                      B. Kate                      C. Mario                      D. Adam                      E. Kay

**Correct Answers:**

1	2	3	4	5
C	B	D	A	E

**Common Explanations:**

**Reference:**

Vida's age is 2 years more than half of the Sasha's age and she is sitting on a longer side of the inside edge and facing north.

Sara is sitting opposite to Alan who is 18 years old.

Sasha is sitting opposite to the Kay who is on the right side of the person sitting opposite to Angela.

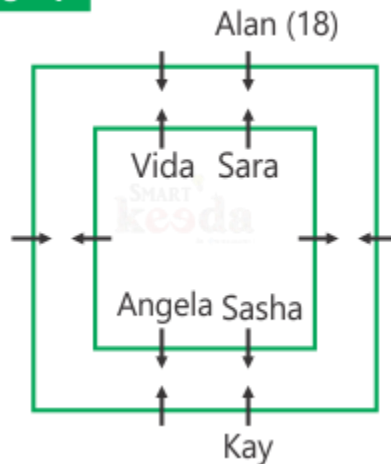
Alan is 4 year younger than Scott and he is sitting on the longer side of outer edge.

Kay and Sara both are of equal age and both are facing on the same direction.

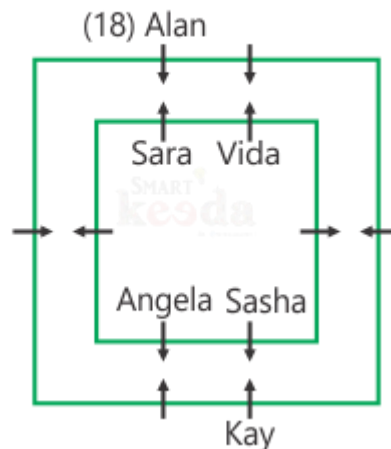
**Inference:**

Studying the given information carefully we can that there are two cases possible for Vida to face north and sit on the longer side of the inside edge. Let's say them Case 1 and Case 2. After that we rest of the information separately in both of the cases.

**Case - 1**



**Case - 2**



Now, we can figure out the ages of some of persons on the table from the given information. Such that it is given that Alan's age is 18 years. And it is also given that Alan is 4 year younger than Scott that Scott's age is  $18+4= 22$  years. We also have two clues here that Vida's age is 2 years more than half of the Sasha's age and Kay and Sara both are of equal age but we cannot use these clues at this time so we make a mental note of these clues.

**Reference:**

Mario is sitting on a shorter side of inside edge and he is six years older than Alan.

Betty is on the right seat of a longer side of outer edge and she is oldest person on the table with 35 years of age.

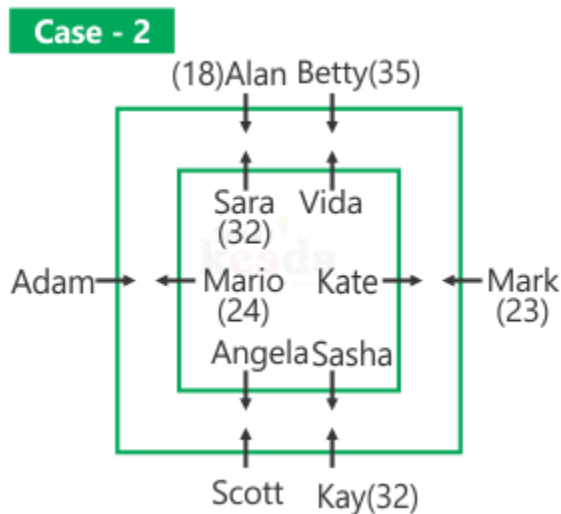
Scott is sitting on left corner of the longer side of outer edge and his age is 6 years more than half of the age of Sara.

Kate is sitting on a shorter side and opposite to Mark, who is facing west and 23 years old.

**Inference:**

Using the given information we can say that our case 1 is not possible under the given conditions because in Case 1 only left side seats are left for the person to sit on the longer side of the outer edge which means from now we have to work on case 2 only. And now for Kate to sit on the shorter side and opposite to Mark who is facing west there is only one place left like this on the table which is on the right side of the table. So we will place them there and after that we can place Mario and Adam easily on the table.

From the above information we can also figure out the ages of Mark, Betty and Mario easily which are 23, 35 and 24 respectively. We also have the clue about Scott's age which is 6 years more than half of the age of Sara and we already know that Scott's age is 22 this means Sara's age must be 32. We know that ages of Kay and Sara are same then Kay's age is also 32.



**Reference:**

Kate is 12 years older than Scott.

Difference in ages of Vida and Angela is a multiple of seven, where Angela is older than Vida.

Adam is 24 years old and his age is average of ages of Scott, Vida, Sasha and Angela.

## Inference:

Studying the given information we can easily figure out the age of Kate because we already know that Scott's age is 22. And as Kate is 12 years older than Scott this means Kate's age is 34. With this information we can also say that sum of the ages of Scott, Vida, Sasha and Angela is 96 and after removing Scott from the given information we have

$$(\text{Vida's age} + \text{Sasha's age} + \text{Angela's age}) = 74.$$

$$\text{Also, } (\text{Angela's age} - \text{Vida's age}) = 7x$$

Where,  $7x$  cannot be greater than 35 (because no one is older than 35) that means value of  $x$  should be between 0 to 5 and it should be an integer.

But, we already know that

$$\text{Vida's age} = (\text{Sasha's age})/2 + 2$$

Using this information, we get

$$[3(\text{Vida's age}) + \text{Angela's age}] = 78$$

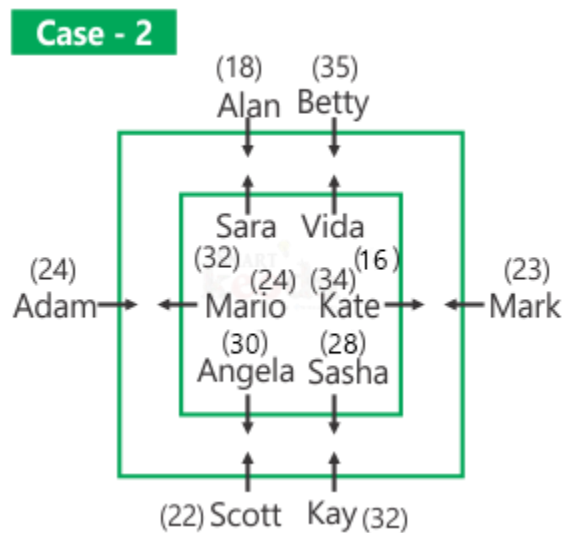
$$\text{Now, } 4(\text{Vida's age}) = 78 - 7x$$

Now using the values of  $x$  between 0 to 5 we can see that only 2 that can satisfy our conditions without contradicting any other information.

$$\text{So, Vida's age} = 16$$

At this point, we can easily calculate Sasha's age and Angela's age which are 28 and 30 respectively.

Now, the puzzle is finally completed and the final solution of the puzzle is as follows:



**Answers :**

- 1.** Following the final solution of the puzzle set we can say that Angela is 30 years old.  
Hence the correct answer is option (C.)
- 2.** Following the final solution of the puzzle set we can say that Betty sits opposite to one who is 16 years old.  
Hence the correct answer is option (B.)
- 3.** Following the final solution of the puzzle set we can say that the absolute difference of the ages of Betty and Kate is 1 year.  
Hence the correct answer is option (D.)
- 4.** Following the final solution of the puzzle set we can say that the sum of the ages of Vida and Sasha is 44 years.  
Hence the correct answer is option (A.)
- 5.** Following the final solution of the puzzle set we can say that Kay does not belong to the group because in all the other persons are sitting on the shorter sides of the edges but Kay is on the longer side of the edge.  
Hence the correct answer is option (E.)



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