

MATRIX ARRANGEMENT – CLASS 4

Mr. Sharma went to a fruit shop to buy fruits. He bought six packets – I, II, III, IV, V and VI, each packet having a different variety of fruit. In each packet, there is one or the other of six types of fruits – Mango, Orange, Apple, Guava, Peach and Grapes. The packets are identical and closed from all sides and no one can make out the type of fruit in the packets. Mr. Sharma has four children – Chintoo, Pintoo, Babloo and Dabloo. Each of the four children guessed the type of fruit in four of the packets, and each one of them correctly guessed the type of fruit in two of the four packets.

	I	II	III	V
Chintoo	Mango	Orange	Apple	Grapes

	II	IV	V	VI
Pintoo	Guava	Apple	Mango	Grapes

	I	III	IV	V
Babloo	Peach	Orange	Mango	Grapes

	II	III	V	VI
Dabloo	Guava	Apple	Orange	Peach

Q1. What is in packet I?

- a. Mango b. Peach c. Orange d. Cannot be determined

Q2. Which packet has grapes? (Mention '0' if your answer is cannot be determined)

Q3. Which packet has guava? (Mention '0' if your answer is cannot be determined)

Six participants Vinit, Rishabh, Jatin, Sagar, Ashish and Mohan have participated in racing. No two of them completed race at the same time. Vinit and Rishabh have completed the race before Mohan. Ashish was last one to complete the race. Jatin completed race before Sagar and Sagar completed race just before Vinit.

Q1. Who completed the race just before Ashish?

- a. Mohan b. Vinit
- c. Rishabh d. Cannot be determined

Q2. If Rishabh was second runner-up, then how many possibilities still exist in order to determine the sequence in which the participants completed the race?

- a. 4 b. 2
- c. 1 d. None of these

Q3. How many participants can complete the race before Sagar?

- a. 1 b. 2
- c. 1 or 2 d. Cannot be determined

Six people - A, B, C, D, E and F are sitting in a row facing the same direction in such a way that

- (i) If B and G interchange their positions then each one of them gets a new neighbour and another neighbour remains the same.
- (ii) If A and D interchange their positions then each one of them gets two new neighbours.

Q1. If A is sitting to the left of both B and C then who is/are sitting to the left of A?

- a. F b. Both E and F
- c. E d. Both D and F

Q2. Who is/are sitting between A and D?

- a. B b. D and F
- c. C and F d. B and F

Q3. If B is to the immediate left of D, then who is to the immediate right of A?

- a. F b. C
- c. B d. E

Four friends – Chiku, Miku, Piku and Tiku – passed out from NDI institute. Each of them got posted in a different city from among Pune, Nasik, Patna and Mumbai. They got placed in different domain from among HR, Marketing, Operations and Finance. Their annual compensation (in Rs. lakhs) as on 1st April, 2004 were 10, 9.5, 12 and 8, and they got increment of 10%, 20%, 25% and 40% on 1st April 2005, in any order. There were no other changes in their compensation between these two dates. Further, it is known that:

- (1) After increment, the annual compensation of the person who got posted in Pune was Rs. 12 lakh, but he was not working in Operation domain.
- (2) The person who got posted in Mumbai was working in Finance domain.
- (3) The annual compensation of Tiku was highest in 2004, but not in 2005.
- (4) Chiku and Miku had equal absolute increment.
- (5) The person working in Operation domain got higher increment than the one in finance, but lower than the one who was working in marketing domain.
- (6) Miku was not posted in Pune.
- (7) The person working in marketing domain was posted in Patna.

Q1. Miku's package (in Rs. lakh) after increment was[Mention '0' if your answer is CBD]

Q2. After increment, what was the package (in Rs. lakhs) of the person posted in Patna?[Mention 0' if your answer is CBD]

Q3. The least value of the absolute increment among all the four friends was[Mention 0' if your answer is CBD]

Q4. The person working in Operation domain got an increment (in percentage) of[Mention 0' if your answer is CBD]

6 friends Rachel, Ross, Monica, Joey, Chandler & Phoebe went to a wholesale market to buy different items among coke costing Rs 70/ litre, Oil costing Rs 80/liter & Juice costing Rs 50/liter. In the market these items were available in packages of 10 liters only. They all spent different amounts on the items but each of them bought every item. Additionally it was known that:

1. Difference between amounts spent by Ross and Monica, Rachel and Phoebe and Joey and Chandler was equal.
2. None of them bought more than 20 liters of any item.
3. Only joey bought maximum number of packages while only Monica bought minimum number of packages.
4. Rachel bought 20 liters of coke and Phoebe bought 20 liters of juice, Ross did not buy 20 liters of coke.

Q1. What is the total amount spent by all of them together?

Q2. How many people bought 10 liters of oil?

Q3. Who spent the third largest amount?

Q4. What is the difference between the amounts spent by Ross and chandler?