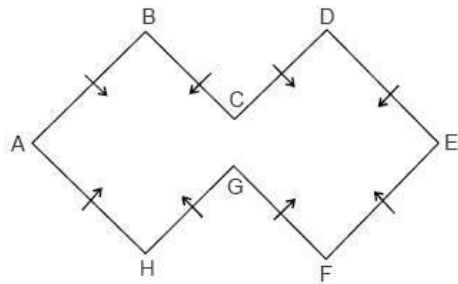


MATRIX ARRANGEMENT

P, Q, R, S, T, U, V and W are sitting around a uniquely-shaped table as shown below, all facing inwards. The persons sitting along edges AB & GH, HA & BC, CD & EF and DE & FG are said to be facing each other. The persons sitting along edges HA & FG, GH & EF, DE & BC and AB & CD are said to be facing in the same direction.



The following information is also known.

- V is sitting to the immediate left of S.
- W is two places to the right of T.
- R and W are facing each other.
- V and T are facing each other.
- U and Q are facing the same direction.
- P and Q are facing opposite directions.
- U and S are facing each other.

Eight persons A, B, C, D, E, F, G and H sit in a row. Some face north and the remaining face south. The following information is known about them.

- i. D sits third to the left of E, neither of them sit at any end.
- ii. Two persons sit between E and H.
- iii. B sits to the immediate left of H and both of them face the same direction.
- iv. A sits second to the left of G, both of them face different directions.
- v. C is not adjacent to D, but C and D face the same direction as G.
- vi. F sits second to the right of C and faces north.
- vi. F sits second to the right of C and faces North.
- vii. B and F are not adjacent to each other.
- viii. No three persons sitting in consecutive positions face the same direction.

Q1. What is the respective ratio of the persons who are facing north to the number of persons who are facing south?

- a. 5 : 3
- b. 1 : 1
- c. 3 : 5
- d. Cannot be determined

Q2. How many persons sit between B and F?

- a. Three
- b. Two
- c. One
- d. Four

Q3. Which of the following statements is true?

- a. H and G face the same direction.
- b. D and F face different directions.
- c. H and G sit at the ends.
- d. B and E face north.

SET-1

Three ladies and four men are a group of friends, ie R, M, T, S, L, W and Z. Each one has a different profession, ie Lawyer, Travel Agent, Air-hostess, Doctor, Professor, Consultant and Jeweller and each one owns a different car, ie Alto, Corolla, Santro, Lancer, Ikon, Scorpio and Esteem, not necessarily in that order. None of the ladies is a Consultant or a Lawyer. T is an Air-hostess and she owns an Ikon car. R owns a Scorpio. M is not a Doctor. L is a Jeweller and he owns Corolla. W is a Lawyer and does not own Alto. Z is a Consultant and owns Santro. The Doctor owns Esteem car whereas the Professor owns Scorpio. The Travel Agent owns an Alto. None of the ladies own a Scorpio.

Q1. What car does S own?

1) Alto 2) Santro 3) Lancer 4) Esteem

Q2. Who owns the car Lancer?

1) Z 2) M 3) W 4) Data Inadequate

Q3. What is the profession of R?

1) Professor 2) Travel Agent 3) Doctor 4) Data inadequate

SET-2

Seven people N, K, T, B, M, W and R have their weekly offs on different days of the week, ie Sunday, Monday, Tuesday, Wednesday, Thursday, Friday and Saturday, not necessarily in that order. Each of them has a liking for different cuisine, ie Indian, Italian, Mexican, Chinese, Spanish, Continental and Thai, not necessarily in that order. K likes Thai food and gets his weekly off on Thursday. B likes Italian food and does not have off on Sunday. M has weekly off on Saturday and R has his weekly off on Tuesday. W likes continental food whereas the one who has weekly off on Monday likes Mexican cuisine. T does not like Spanish cuisine and has weekly off on Wednesday. The one who likes Indian food does not have a weekly off on Tuesday or Wednesday.

Q1. Who has a weekly off on Friday?

1) T 2) R 3) W 4) None of these

Q2. What cuisine does R like?

1) Continental 2) Indian 3) Italian 4) Spanish

Q3. On which day does N have weekly off?

1) Tuesday 2) Friday 3) Monday 4) Sunday

SET-3

(I) P, Q, R, S and T finished a work, working from Monday to Saturday, one of the days being a holiday, each working overtime only on one of the days.

(ii) R or T did not work overtime on the first day.

(iii) Q worked overtime the next day after the holiday.

(iv) The overtime work done on the previous day of the holiday was by R.

(v) There was a two days' gap between the days on which P and Q worked over time.

(vi) P worked overtime the next day of the overtime day of S.

Q1. Which of the following is the correct statement ?

- 1) P worked overtime last among them.
- 2) P worked overtime earlier than S.
- 3) The holiday was on Friday.
- 4) S worked overtime earlier than Q.

Q2. On which day did R work overtime?

- 1) Monday 2) Tuesday 3) Thursday 4) None of these

Q3. How many days' gap was there between the days on which P and T worked overtime?

- 1) Three 2) Two 3) One 4) Cannot be determined

SET-4

P, Q, R, S, T, V, W and Z are eight friends studying in three different engineering colleges - A, B and C in three disciplines - Mechanical, Electrical and Electronics with not less than two and not more than three in any college. Not more than three of them study in any of the three disciplines. W studies Electrical in college B with only T, who studies Mechanical. P and Z do not study in college C and study in the same discipline but not Electrical. R studies Mechanical in college C with V, who studies Electrical. S studies Mechanical and does not study in the same college where R studies. Q does not study Electronics.

Q1. Which of the following combinations of college-student-specialization is correct?

1) C-R-Electronics 2) A-Z-Electrical 3) B-W-Electronics 4) B-W-Electrical

Q2. In which of the following colleges do two students study in Electrical discipline?

1) A only 2) B only 3) C only 4) Cannot be determined

Q3. In which discipline does Q study?

1) Electrical 2) Mechanical 3) Electrical or Mechanical 4) Data inadequate

SET-5

Sharma Jee wants to buy a book and is confused between four novels of different genres - mystery, horror, comedy and thriller. The novels are written by Lalu, Monu, Nonu and Ovattio and published by Purshottam, Quattchori, Rajveer and Sarkar, not necessarily in the same order. The horror novel is published by Quattchori and the thriller novel is written by Nonu. Each novel is written by a different author and published by a different publisher. It is also known that Lalu and Monu get their books published by Purshottam or Quattchori only.

Q1. If the mystery novel is written by Ovattio then who can be the publisher of the comedy novel?

- (a) Purshottam or Quattchori (b) Only Purshottam
- (c) Purshottam or Rajveer (d) Purshottam or Rajveer or Sarkar

Q2. How many combinations of publisher and author are possible for the mystery novel?

- (a) 6 (b) 3 (c) 4 (d) 5