



ODICS to be covered

- 1 ARRANGEMENTS & RANKING
- 2 PROBLEM SOLVING





RRANGEMENTS & RANKING

L.P. + R.P -1 3rd People in a row

X X X X X X X X 3 Ceft . Right R.P = No. & P - (-P(+)) R-P= 8 -3(+)>(h

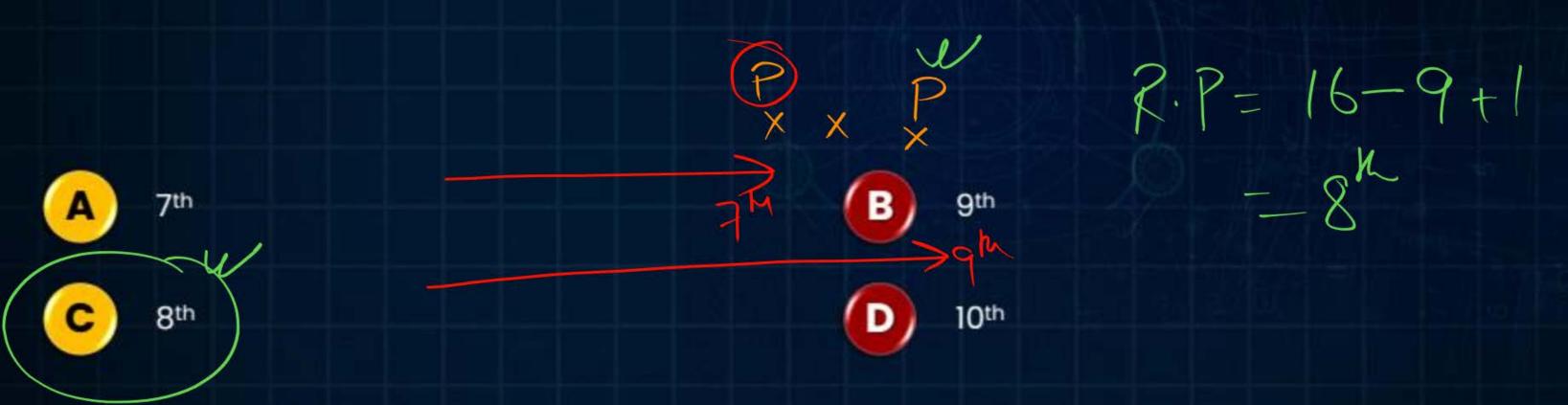


Madhu ranks seventeenth in a class of thirty-one. What is his rank from the last?

$$-32-17=(5)$$

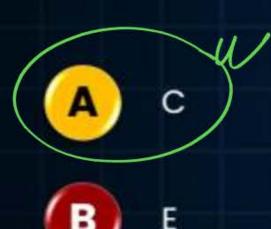


In a row of 16 boys, when Prakash was shifted by two places towards the left, he became 7th from the left end. What was his earlier position from right end?





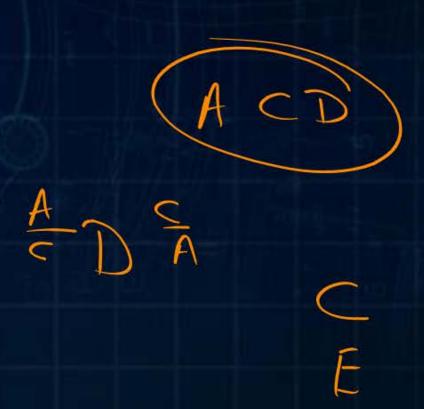
Five people are standing in a ticket booking line. A, C and D are standing together, D is between A and C. A is immediately behind B and E is immediately behind C. Who is standing second last in the line?













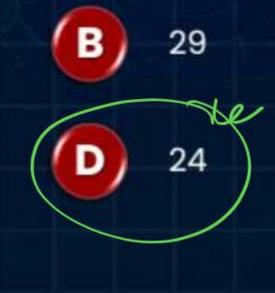
5+1+5+8

- 16+8 = 24

The result of a class was declared. The boy X stood 5th in the class. The girl Y was 8th from the last. The position of the boy Z was 6th after X and in the middle of X and Y. Work out total number of the students in the class?

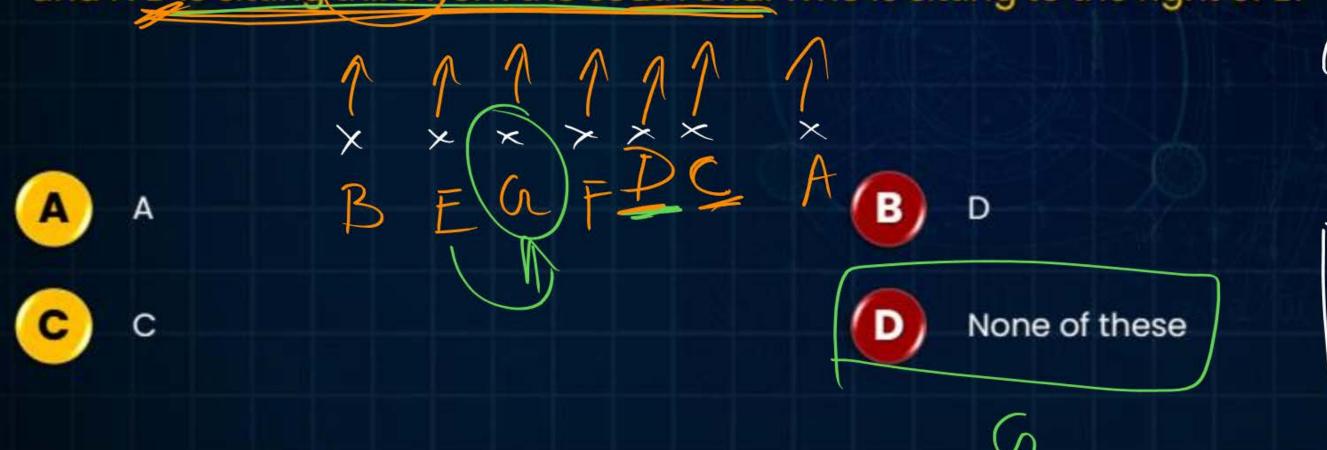


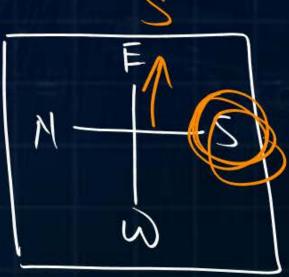






A, B, C, D, E, F and G are sitting on a wall and all of them are facing east. C is on the immediate right of D. B is at the extreme end and has E as his neighbour. G is between E and F. D is sitting third from the south end. Who is sitting to the right of E?







In a class of 60, where number of girls are twice the number of boys, Mohit ranked 17th from the top. If there are 9 girls ahead of Mohit, then how many boys are after him in rank?

- A 13
- B 23
- (C) 7

D 12

Boys:7 9 Girls

$$20-8=12$$
 873



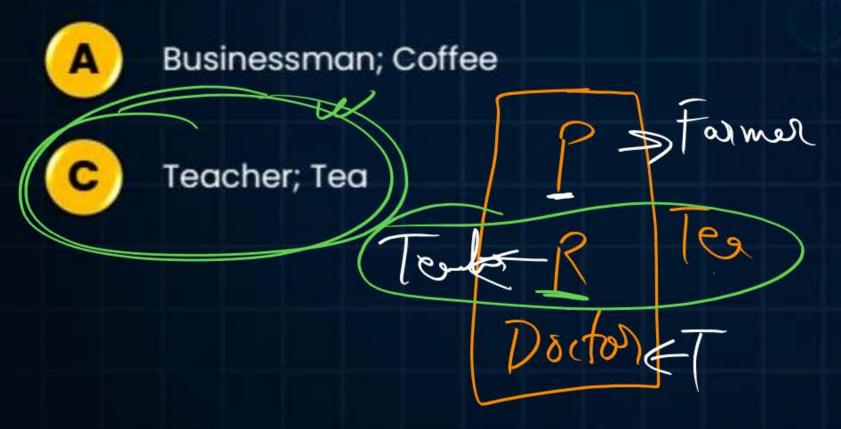
PROBLEM SOLVING



Data Avrange



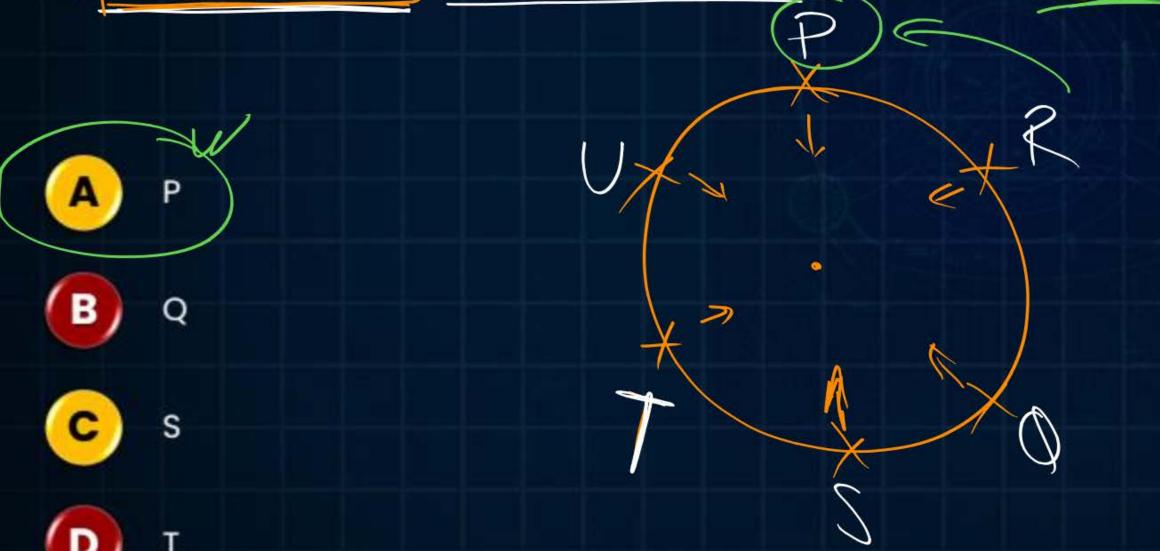
In a house, there are five people P. Q. R. S and T and their profession is Teacher, Farmer, Businessman, Engineer and Doctor, not necessarily in same order. Three of them P. R and Doctor like Tea and two of them Q and Businessman like Coffee. Among Engineer, S and X, two like Coffee. If P is a farmer, what would be the profession and like of R?



- B Doctor; Tea
- Engineer; Coffee

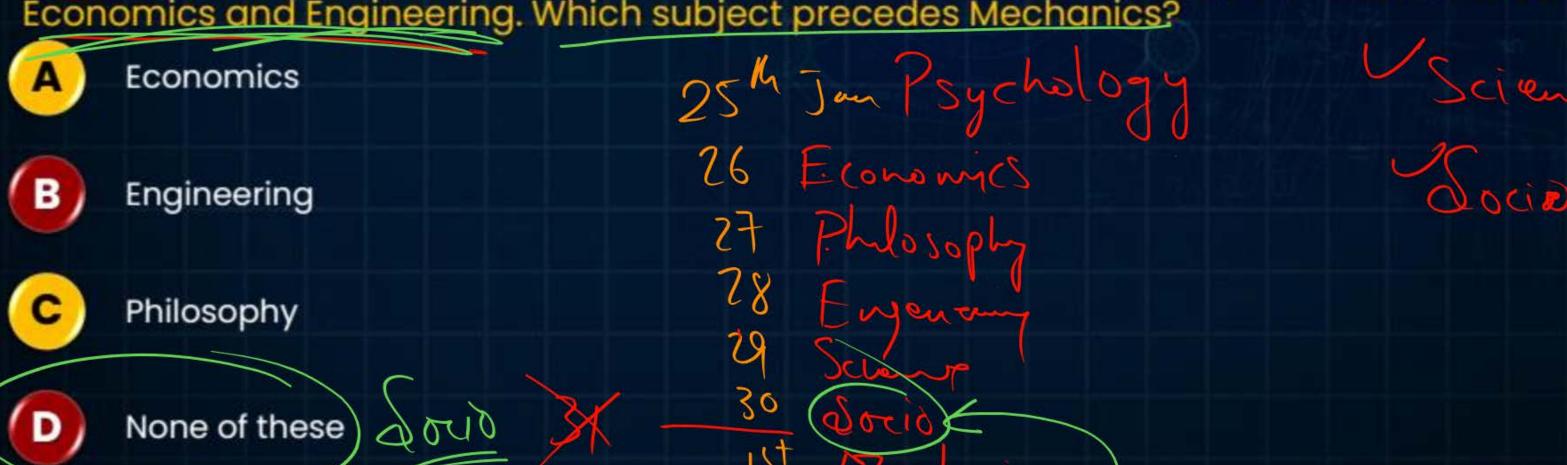


Six friends P, Q, R, S, T and U are sitting in a closed circle facing center. R is between P and Q. T is to the left of S. U is between P and T. Who is to the right of R?





A training college has to conduct a refresher course for teachers of seven different subject Mechanics, Psychology, Philosophy, Sociology, Economics, Science and Engineering from 25th January to 1st February, 2021. Course should start with Psychology. 31st January, being Sunday, should be holiday. Course should end with Mechanics subject. Economics subject is on Republic Day. Science is immediately before Sociology. Philosophy should be immediately after Republic day. There is a gap of one day between Economics and Engineering. Which subject precedes Mechanics?





Prakash is taller than Geetha. Amar is taller than Prabhat but not as tall as Geetha. Prabodh is taller than Prakash. Who among them is the shortest?

A Prabhat

B) Geeta

C Amar

(D) Prabodh

Trabodh Prakosh

Geetla

Amar Publis men

Probhat





Seven members of World Forest Conservation Committee – A, B, C, D, E, F and G planted seven saplings on seven days of the week which was celebrated as "Plantation Week".

A planted the sapling on Monday, the first day of the Plantation Week

B planted the sapling a day before when C planted the sapling and the very next day of E.

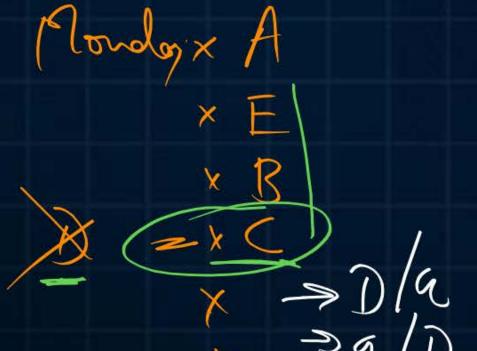
D planted the sapling on some day after that of B but that day was not the middle day of the week.

F planted the sapling on the last day of the plantation week and it was the third day after C planted the sapling. Who planted the sapling on the middle day of the plantation

week?

А В

(C) C





Question (PYQ GATE Exam 2022 ME)



Four girls P, Q, R and S are studying languages in a university. P is learning French and Dutch. Q is learning Chinese and Japanese. R is learning Spanish and French. S is learning Dutch and Japanese.

Given that: French is easier than Dutch; Chinese is harder than Japanese; Dutch is easier than Japanese, and Spanish is easier than French.

Based on the above information, which girl is learning the most difficult pair of P > French & Dutch languages? S > Dutch & Imparise

Question (PYQ GATE Exam 2021 EE)









Seven cars P, Q, R, S, T, U and V are parked in a row not necessarily in that order. The cars T and U should be parked next to each other. The cars S and V also should be parked next to each other, whereas P and Q cannot be parked next to each other. Q and S must be parked next to each other. R is parked to the immediate right of V. T is parked to the left of U.

Based on the above statements, the only INCORRECT option given below is:



- A There are two cars parked in between Q and V.
 - V is the only car parked in between S and R.

Car P is parked at the extreme end.

Q and R are not parked together.

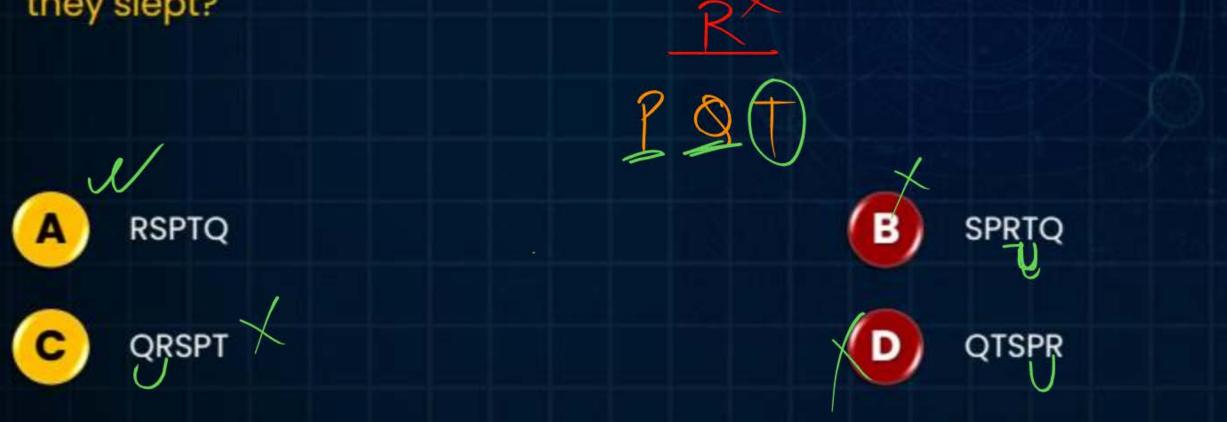
Question (PYQ GATE Exam 2020 CE)



Five friends P, Q, R, S and T went camping. At night, they had to sleep in a row inside the tent. P, Q and T refused to sleep next to R since he snored loudly. P and S wanted to avoid Q as he usually hugged people in sleep.

Assuming everyone was satisfied with sleeping arrangements, what is the order in which

they slept?

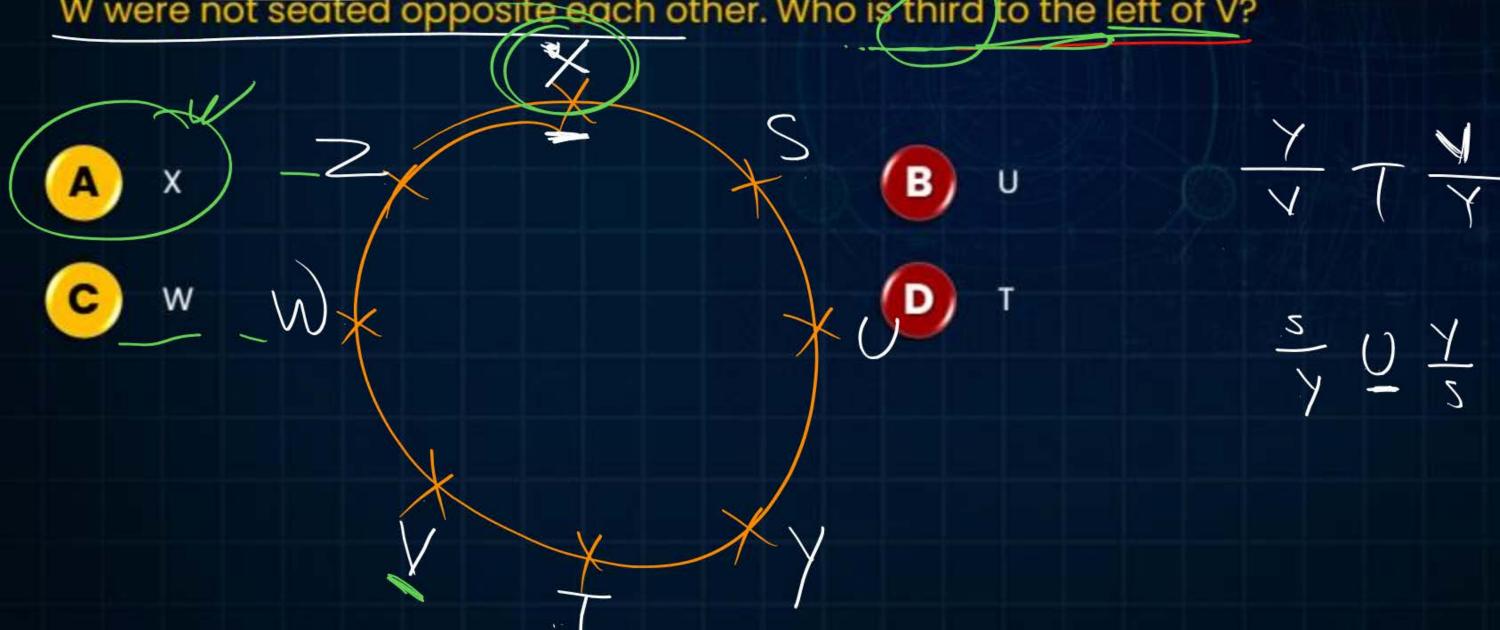


Question (PYQ GATE Exam 2019 EC) Four people are standing in a line facing you. They are Rahul, Mathew, Seema and Lohit. One is an engineer, one is a doctor, one a teacher and another a dancer. You are told that: Mathew is not standing next to Seema) There are two people standing between Lohit and the engineer. Rahul is not a doctor. the teacher and the dancer are standing next to each other. Seema is turning to her right to speak to the doctor standing next to her. Who among them is an engineer? Rahul Mathew

Question (PYQ GATE Exam 2017 EC)



S, T, U, V, W, X, Y and Z are seated around a circular table. T's neighbours are Y and V. Z is seated third to the left of T and second to the right of S. U's neighbours are S and Y. T and W were not seated opposite each other. Who is third to the left of V?



Question (PYQ GATE Exam 2017 CS/EE)



Rahul, Murali, Srinivas and Arul are seated around a square table. Rahul is sitting to the left of Murali. Srinivas is sitting to the right of Arul. Which of the following pairs are seated

opposite to each other?

- A Rahul and Murali
- B Srinivas and Arul
- Srinivas and Murali
- Srinivas and Rahul

Question (PYQ GATE Exam 2015 ME)

Cliff



Tanya is older than Eric. Cliff is older than Tanya.

Eric is older than Cliff

If the first two statements are true, then the third statement is:

A True

C Uncertain

B False

Data insufficient

Question (PYQ GATE Exam 2015 CS/CE)





The head of a newly formed government desires to appoint five of the six selected members P, Q, R, S, T and U to portfolios of Home, Power, Defence, Telecom and Finance. U does not want any portfolio if S gets one of the five. R wants either Home or Finance or no portfolio. Q says that if S gets either Power or Telecom, then she must get the other one. T insist on a portfolio if P gets one.

Which is valid distribution of portfolios?

- A P-Home Q-Power R-Defence S-Telecom T-Finance
- R-Home S-Power P-Defence Q-Telecom T-Finance
- C P-Home Q-Power T-Defence S-Telecom U-Finance
- Q-Home U-Power T-Defence R-Telecom P-Finance

Question (PYQ GATE Exam 2014 CE)



In a group of four children, Som is younger to Riaz. Shiv is elder to Ansu. Ansu is youngest in the group. Which of the following statements is/are required to find the eldest child in the group?

Statements:

1. Shiv is younger to Riaz

2. Shiv is elder to Som

2

Statement 1 by itself determines the eldest child.

B

Statement 2 by itself determines the eldest child.

Statement 1 and 2 are both required to determine the eldest child.

(D)

Statement 1 and 2 are not sufficient to determine the eldest child.

Ansh

Question (PYQ GATE Exam 2013 CE)



Abhishek is elder to Sarvar. Sarvar is younger to Anshul.

Which of the given conclusion is valid and is inferred from the above statements?

- Abhishek is elder to Ansul
- Ansul is elder to Abhishek
- C Abhishek and Anshul are of same age
- No conclusion follows

Abishela Ausul Sarvar

Question (PYQ GATE Exam 2017 CE)



P, Q, R, S, T and U are seated around a circular table. R is seated two places to the right of Q. P is seated three places to the left of R. S is to the opposite of U. If P and U now switch seats, which of the following must necessarily be true?

P is immediately to the right of R T is immediately to the left of P or P is immediately to the right of Q is immediately to the left of P U is immediately to the right of R or P is immediately to the left of T

Question (PYQ GATE Exam 2019 EE)



Consider five people-Mita, Ganga, Rekha, Lakshmi and Sana. Ganga is taller than both Rekha and Lakshmi. Lakshmi is taller than Sana. Mita is taller than Ganga. Which of the following conclusions are true?

- 1. Lakshmi is taller than RekhaX
- 3. Rekha is taller than Sana X
- 2. Rekha is shorter than Mita
 - 4. Sana is shorter than Ganga

- A 1 and 3
- B 3 only
- 2 and 4
- D 1 only

Rebbe Lokshit
Rebbe Robert
Rebbe



Arrayement & Rawking

Problem Solving

