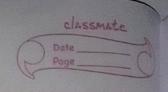
Puzzles.

- A snop sells 3 chocolates for 18 and gues one extra chocolate for exchange for 3 wrappers. How many chocolates can be bought for 10%.
- A person 'A' wants to send a secret message to his Friend 'B' via a person 'C'. 'A' does not trust 'C'. So 'A' puts his message in a box with a lock, but 'A' should not send the key. How can 'A' send his message securely
- A room with a door closed and 3 light bolbs inside. Outside are 3 switches, you can manipulate the switches as you want but once you open the door, can't change them. If you can open the door only once, identify each switch with respect to its bulb. Explain how?
- An airplane flies non-stop from Mumbria to New York City. On the flight a pregnant lady gives broth to a healthy child just 30 minutes before me plane was about to land. Find if the airplanes weight was increased I decreased when it landed in NY as compared to the weight in Mumbai.
- 5. Four prisoners, all will be freed if atteast one of them correctly guesses the color of the hat on his head. Only one guess is allowed among all 4 prisoners.

There is a wall in between so all prisoners are facing the wall.

ABCD

It is known that there are 2 black and 2 white hats. Which prisoner will give make the correct guess?



6. Given the following arrangement, one prisoner among the three has to make a ero correct guess for the colour of hat on his head, given thet there ers are 3 black and 2 white hats.

Which prisoner can make the correct guess & how?

B

one direction. Each prisoner is wearing either a black or red hat. A prisoner can see hats of all prisoner in hent of him in the queue but cannot see his own hat's color.

From the last prisoner in the queue. If a prisoner tells the correct color then he is saved , otherwise executed. How many prisoners can be saved at most & how?

Note: The above type of problem is solveable only for even number of prisoners.

8. 100 prisoners are prevent in a room. The jailer comes in with a bag of Red and Black nats. He first protocomakes every prisoner close meir eyes, then puts a nat on each of their head. The count of Read and Black hats is unknown.

How one by one a prisoner has to walk out of that room, open his eyes and stand in a group formation of Red and Black hats. What stratergy should be used to form he group?