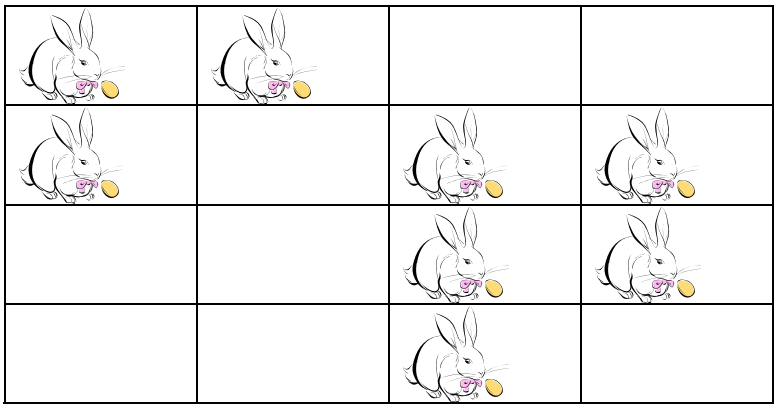
Problem 1

When Selma the young witch left the room at 8:30 AM, the clock on the wall was showing the right time. When she is not in the room, the bewitched clock runs at the normal speed but backwards. The witch returns at 9:45 PM that same day. What time is the bewitched clock showing?

Problem 2

There are eight rabbits in the cells of the table (see the picture below). Move the rabbits from one cell to another so that there will be exactly two rabbits in any row and in any column of the table. What is the least number of rabbits that need to be moved?



Problem 3

Adam spent five days preparing for a test. The first day he solved one problem, and each day after that he solved twice as many problems as the day before. How many problems did Adam solve altogether to prepare for this test?

Problem 4

Paul, Darius, Micah, and Jeff met at a concert in Chicago. They came from different cities: Pittsburg, Dallas, New York and Washington. We know that:

1. Paul and the boy from Washington met in Chicago early in the morning on the day of the concert. They had never been to Pittsburg or to New York.
2. Micah is not from Washington, and he came to Chicago later than the boy from Pittsburg.
3. Jeff liked the concert more than the boy from Pittsburg did.

Where do Paul, Darius, Micah and Jeff live?