



# Rally Mathematics 2014/2015 Cantal

## Second Round- CE1/CE2 (7 and 8 years old) March 2015

### Problem 1: The cable

16 points



Sarah stand in line to take the cable car.  
She is at the 79th place in the file when the cabin No. 1 opens up to let the passengers come in  
A cabin can carry 25 persons at a time and all cabins are identical. They are numbered from 1 to 7 and are arranged in ascending order.

What is the cab number in which Sarah will take place?

### Problem 2: The safe

14 points

To open a safe, you need to find the three-digit code...



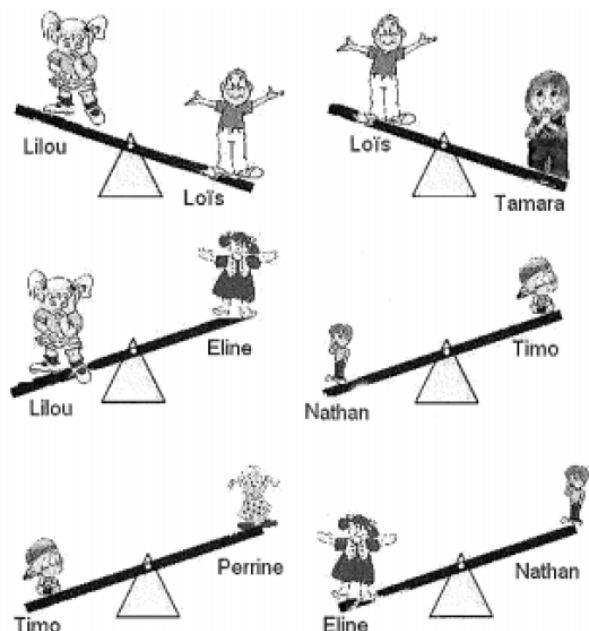
1-2-3: no correct digit  
6-1-2: only one correct digit but at the wrong place  
4-5-6: only one correct and well-placed digit  
7-4-5: only one correct and well-placed digit  
2-1-8: only one correct digit but at the wrong place

### Problem 3 : Swings

20 points

Lilou, Loïs, Eline, Timo, Perrine, Nathan and Tamara make the swings.

Order children from lightest to heaviest



**Problem 4: Puzzles with pentominoes**

**18 points**

Two pentaminos allow to cover the "central figure". Find three solutions.

