## Educational Goals

* Exploit the different senses of addition and subtraction
* Count from a given number
* Develop logic
* Highlight the playful potential of mathematics


## Key Features of the Targeted Competencies

* To define the elements of the mathematical situation
* To mobilize and apply concepts and processes appropriate to the given situation
* To justify actions or statements by referring to mathematical concepts and processes


## Concepts Used

* Counting
* Addition and subtraction


## Materials

* Video of the puzzle
* Sheets of paper
* Marker pens
* Written copies of the puzzle
* Tokens (optional)

Targeted Academic Levels Grades 1 to 4

Mathematical Field
Concerned

Suggested Teaching Formula
0

Time Required
Approximately 25 minutes

SUGGESTES PROCESS

Step 1: Introduction (5 minutes)
Present the video of the puzzle a first time (www.amazingmaths.ulaval.ca).
A written version of the puzzle is available via the Explanation Sheet. If you believe it is necessary, you can project it or distribute copies to your students.

Present the video a second time to allow the students to thoroughly understand the information.
If needed, remind some pieces of information to the students:
$>$ Gabrielle lives 6 floors higher than William.
$>$ William is halfway there when he is on the $5^{\text {th }}$ floor.
$>$ Once William is on the $5^{\text {th }}$ floor, there are as many floors between his apartment and Gabrielle's apartment.

## Step 2: Finding the solution (15 minutes)

Place the students in teams of 2 to 4 so they can try to find the solution.

If some students encounter difficulties, you can guide them by giving them materials, like tokens. Represent William's home with a token and Gabrielle's with another token. Place one token per floor between William's token and Gabrielle's token. Ask the students to find the $5^{\text {th }}$ floor, which is halfway between the two apartments. Then, find on which floor is situated Gabrielle's apartment by counting from this reference point.

Step 3: Reveal the solution (5 minutes)
Refer to the Explanation Sheet for the puzzle "The Building".

