



PUZZLING CARTOON

- THE BIRTHDAYS -



Educational Goals

- ❖ Develop logic
- ❖ Highlight the playful potential of mathematics
- ❖ Raise consciousness about implicit constraints

Key Features of the Targeted Competencies

- ❖ To decode the elements of the situational problem
- ❖ To modelize the situational problem
- ❖ To apply different strategies to elaborate the solution
- ❖ To validate the solution
- ❖ 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

- ❖ Arithmetic (addition)
- ❖ Equal and unequal relations
- ❖ Order of numbers and comparisons of the numbers' sizes
- ❖ Maximum and minimum

Materials

- ❖ Video of the puzzle
- ❖ Sheets of paper
- ❖ Pencils
- ❖ Calendars of the full year (available in the school agenda)
- ❖ Written copies of the puzzle (optional)

Targeted Academic Levels

Grades 3 to 6

Mathematical Field Concerned



Suggested Teaching Formula



Temps requis

25 minutes



SUGGESTED PROCESS



Step 1: Introduction (2 minutes)

Play the puzzle's video a first time.

A written version of the puzzle's statement is available in the appendix of this document. If you believe it is necessary, you can project it or distribute copies to your students.

Play the video a second time to allow the students to thoroughly understand the information.

Step 2: Finding the solution (18 minutes)

Place the students in pairs so they can try to find the solution. Tell the students to refer to their school calendar (available in the agenda) for information such as the number of days in each month and the digit corresponding to the month.

Step 3: Reveal the solution (5 minutes)

There are, at the most, 8 people in the group of friends.