



PUZZLING CARTOON

-CONCERT SEATS-



Educational Goals

- ❖ Develop logic
- ❖ Highlight the playful potential of mathematics
- ❖ Develop cognitive and metacognitive strategies to analyze the given clues and find the solution

Key Features of the Targeted Competency

- ❖ 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

- ❖ Organization strategies (to classify, to arrange and to reorganize)
- ❖ Elaboration strategies (eliminate possibilities, do systematic attempts)

Materials

- ❖ Video of the puzzle
- ❖ Sheets of paper
- ❖ Pencils
- ❖ Written copies of the puzzle (optional)

Targeted Academic Levels
Grades 3 to 6

**Mathematical Field
Concerned**



**Suggested Teaching
Formula**



Time Required
Approximately 25 minutes



SUGGESTED PROCESS



Step 1: Introduction (3 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.

Step 2: Finding the solution (17 minutes)

Place the students in pairs so they can try to find the solution. Encourage the students to write down all the elements of information given by the clues.

You can guide the students by suggesting to them to take one clue at a time and analyze the information it gives. You can also suggest to them to represent the problem with drawings and tables.

Step 3: Reveal the solution (5 minutes)

Refer to the Explanation Sheet for the puzzle “Concert Seats”.