PUZZLING CARTOON

- RIGHT ON TIME -

Educational Goals

- Develop logic
- Highlight the playful potential of mathematics
- Go through an intermediate step in order to find a solution
- Work with conventional representations of time (clock with hands)

Key Features of the Targeted Competencies

- To decode the elements of the situational problem
- To modelize the situational problem
- To apply different strategies in order 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, subtraction)
- Sense of operations (inverse operations)
- Conventional units for time measurement

Materials

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

Targeted Academic Level
Grades 3-4

Mathematical Field Concerned

Suggested Teaching Formula

Time Required
20 minutes

SUGGESTED PROCESS

Step 1: Introduction (3 minutes)

Play the video of the puzzle a first time.
A written version of the puzzle is included 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.

Note : In the video, the time is represented with the clock's hands. Plus, the hours used are 5 p.m. and 7 p.m., respectively represented on the 12 hours dial as 5 o'clock and 7 o'clock. It is an opportunity for your students to work on their comprehension of time units and their ability to read time on a clock with hands.

Step 2: Finding the solution (14 minutes)

Place the students in pairs so they can try to find the solution.
Encourage the students to write down the elements of information, because they are precise and important. To guide their thought process, draw the students' attention on what is going on every hour and on the information "missing" in the statement, but that we can find, like the hour at which the watches have been synchronized.

Step 3: Reveal the solution (3 minutes)

It is currently 6 p.m.