



PUZZLING CARTOON

- JET LAG -



Educational Goals

- ❖ Develop logic
- ❖ Highlight the playful potential of mathematics
- ❖ Express a situation using concrete materials, diagrams or an operation

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

- ❖ Arithmetic (Addition, subtraction)
- ❖ Time difference
- ❖ Cognitive and metacognitive strategies

Materials

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

Targeted Academic Levels
Grades 7-8

Mathematical Field Concerned



Suggested Teaching Formula



Time Required
Approximately 20 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 (12 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 affirmations.

You can guide their thought process by suggesting to properly distinguish the *time* that goes by and the *hours* that move forward. You can also suggest to them to look at the problem as a whole: how much time goes by in total and what information can we get from that?

If the students think they have solved the problem, you may tell them that there might be another solution.

Step 3: Reveal the solution (5 minutes)

Refer to the Explanation Sheet for the puzzle “Jet Lag”.