



# PUZZLING CARTOON

- *IN SHAPE ?* -



## Educational Goals

- ❖ Develop logic
- ❖ Highlight the playful potential of mathematics
- ❖ Develop cognitive strategies to identify the regions in plane figures

## 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

- ❖ Plane figures (triangle, rectangle and circle)

## Materials

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

## Targeted Academic Levels

Grades 1 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](http://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** (15 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 hints.

You may guide the students with the cognitive strategies to use by suggesting to them to look at one hint at a time and analyze the information it gives. You may also suggest to them to draw a table for themselves to help them analyze the information.

## **Step 3: Reveal the solution** (7 minutes)

Refer to the Explanation Sheet for the puzzle “In Shape ?”.