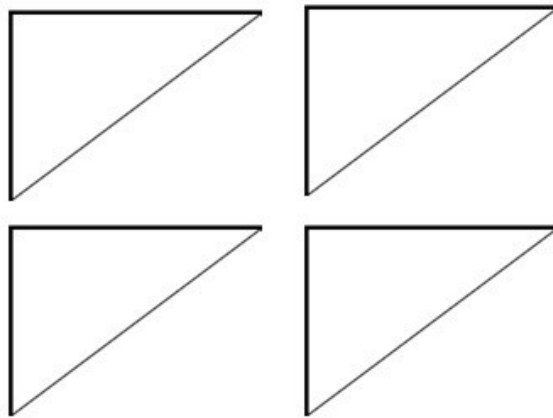


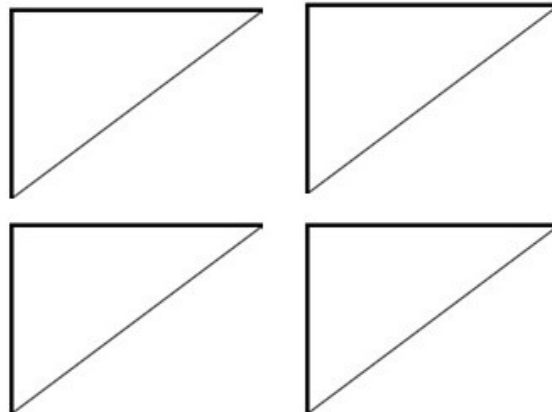
# The Smurf Proof - Part I

1. Cut the jigsaw pieces.
2. Set the pieces of the Smurfs together to geometrical shape and do the same with the pieces of Daddy Smurf, so that they superpose each other.

Daddy Smurf



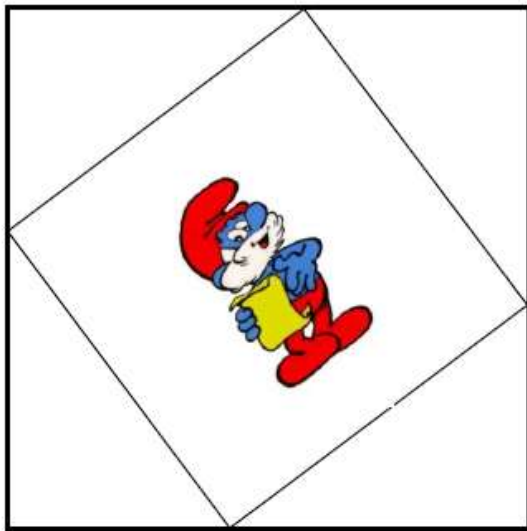
The Smurfs



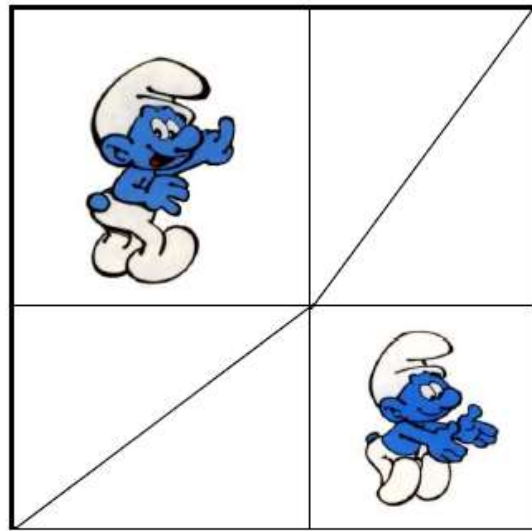
Wait! Next page shows the solution!

## The Smurf Proof - Part II

1. Compare your solution with the arrangement shown below.
2. Rename the sides of the pieces, but notice the congruence of certain sides.
3. Develop a formula for the surface area of the square of Daddy Smurf and of the square of the Smurfs.
4. Equate both formulas and simplify it as far as possible.
5. Take position to the Smurf problem in the Video.



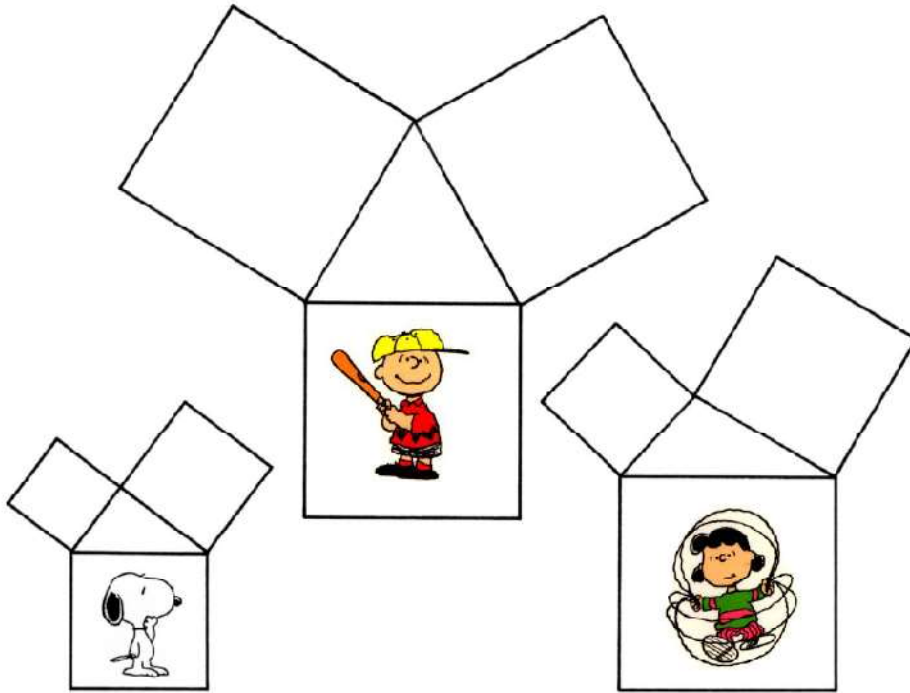
Papa-Schlumpf



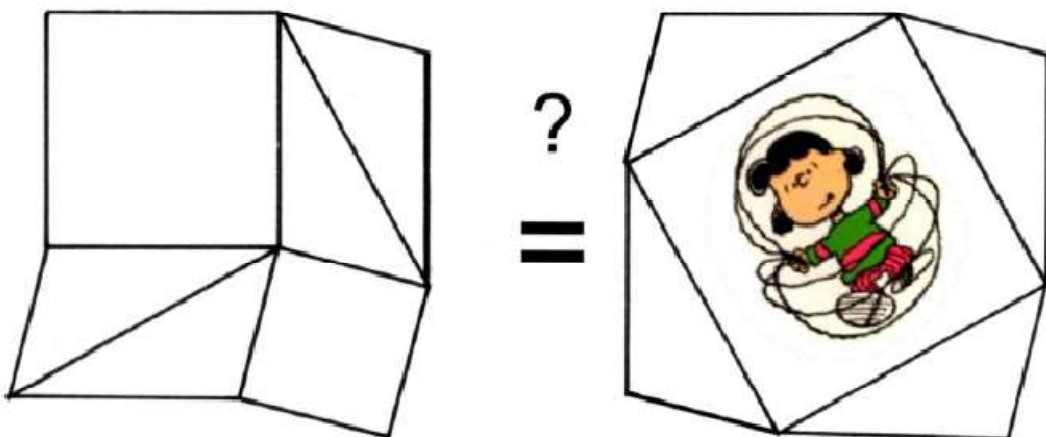
Die Schlümpfe

## The Smurf Proof - Part III

1. Look at the Peanut- pictures and describe the different between the Smurf, Snoopy, Lucy and Charly Brown.



Beweisversuch für Lucy:



2. Now look at the Pythagorean theorem and describe how you are able to prove it.