Theoretical aspects :

* Metrical correspondences in the right triangle
* Rational numbers calculus

Conclusions :

* The theorem of Pitagoras

Practical issue :

* Using the surface of the square discover the link between square of the hypotenuse length and the sum of square of cathetes length .
* Pupils will measure the sides of an given right triangle. They will calculate the square of the sides. If they draw squares on every side of the triangle they should see that the biggest square can be completely covered by the two small squares.

 B

AC=20 cm, AB=15 cm, BC=25 cm

25 cm

15 cm

A

C

20 cm