Erasmus+

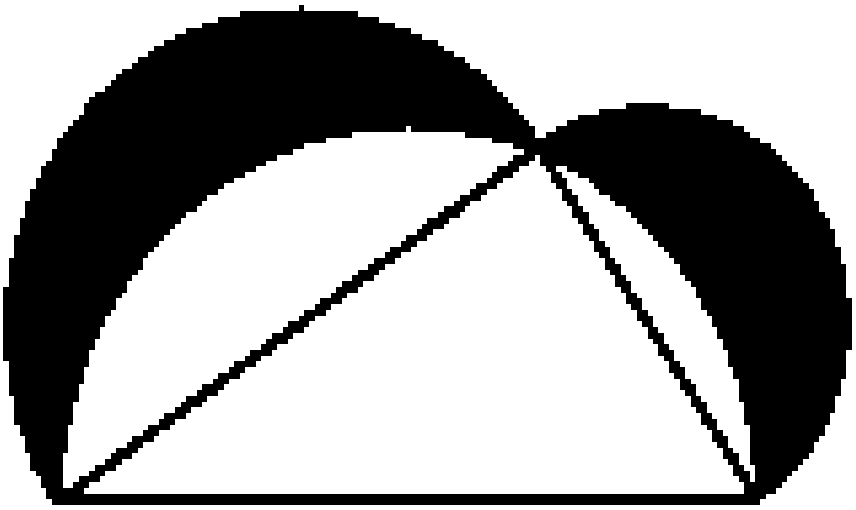
Project of **Shapes**

The project has been funded with support from the European Commission!

Puzzles/problems/rebuses/curiosities/delusions

We have a right-angled triangle and we know the lengths of its sides. We can construct a Thales circle for every side. (Its centre is in the middle of the side.) Two so-called "Lunes of Hippocrates" will be formed above both of the legs. What's the formula of their area?

Máme pravoúhlý trojúhelník, známe délku jeho tří stran. Nad každou sestrojíme Thaletovu kružnici. (Její střed je vždy uprostřed dané strany.) Nad oběma odvěsnami vzniknou tzv. Hippokratovy půlměsíce. Jaký bude vzorec pro jejich obsah?



Prepared by Lucie Cadova

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SOLUTION

The formula for the lunes area is *S = a.b/2*, where *a* and *b* are the lengths of the legs.

ŘEŠENÍ

Vzorec pro obsah půlměsíců je *S = a.b/2*, kde *a* a *b* jsou délky odvěsen.

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