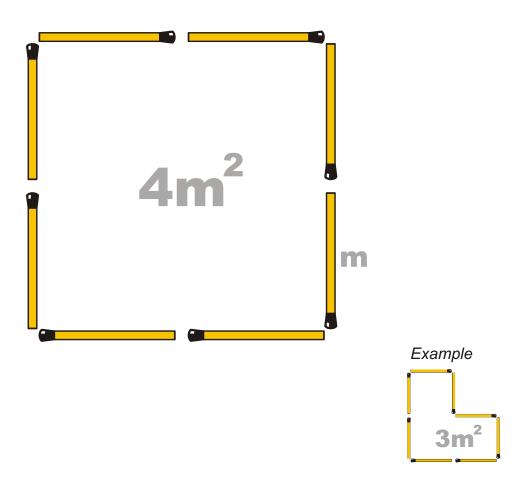
## vour mind resort

## Downsize 2x2

by Serhiy Grabarchuk, Jr.



If the length of a matchstick is  $\mathbf{m}$ , then the area of the 2x2 square shown in the center of the illustration can be presented as  $4\mathbf{m}^2$ . When two matchsticks are moved as is shown in the *Example* in the lower right corner, then the area of the new reduced shape is  $3\mathbf{m}^2$ .

Can you move three matchsticks in order to change the square into a shape of the area:

Puzzle 1 (easier): 2m<sup>2</sup>? Puzzle 2 (harder): 3m<sup>2</sup>?

No damaging, loose ends or overlapping of the matchsticks is allowed.