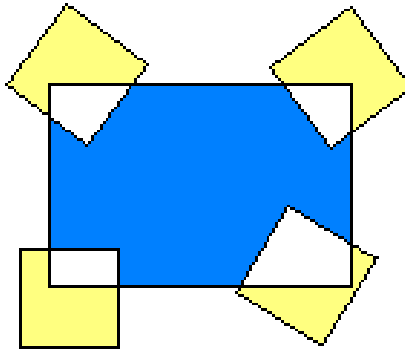


Puzzle 7 - SOLUTION

Problem 1 *The picture below shows a rectangle (the sides' length are 2 and 3 unit long) and four identical squares (all four sides are 1 unit long). Determine which area is greater: the yellow or the blue?*



Solution 1 *The area of the rectangle is 6 unit^2 , and the area of the four squares is 4 unit^2 . And, of course, $6 \text{ unit}^2 > 4 \text{ unit}^2$. While we don't know that blue or yellow area, they are $6 - x$, and $4 - x$, where x is the area of the white figures. Since we subtracted the same number from two quantities, the larger remains larger. So, the blue area is greater.*