

- 2 There are 1998 rectangular pieces 2 cm wide and 3 cm long and with them squares are assembled (without overlapping or gaps). What is the greatest number of different squares that can be had at the same time?
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- 3 There are four boats on one of the river banks; their names are Eight, Four, Two and One, because that is the number of hours it takes each of them to cross the river. One boat can be tied to another, but not more than one, and then the time it takes to cross is equal to that of the slower of the two boats. A single sailor must take all the boats to the other shore. What is the least amount of time you need to complete the move?
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- 4 $ABCD$ is a square of center O . On the sides DC and AD the equilateral triangles DAF and DCE have been constructed. Decide if the area of the EDF triangle is greater, less or equal to the area of the DOC triangle.
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- 5 Choose a four-digit number (none of them zero) and, starting with it, build a list of 21 different numbers, each with four digits, that satisfies the following rule: after writing each new number in the list, all the averages are calculated Between two digits of that number, those averages that do not give a whole number are discarded, and with the rest a four-digit number is formed that will occupy the next place in the list. For example, if 2946 was written in the list, the next one can be 3333 or 3434 or 5345 or any other number armed with the figures 3, 4 or 5.
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