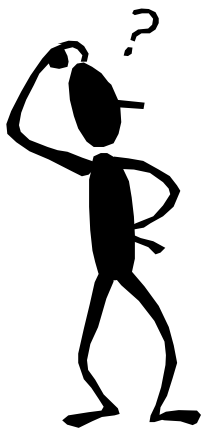
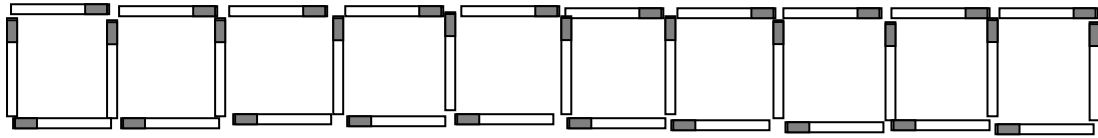


MAX'S MATCHSTICKS

Four students were asked to work out how many matchsticks were needed to make 10 squares without counting each one.



Max's solution:
 $11 \times 2 + 9$

Di's solution:
 $10 \times 3 + 1$

Sergio's solution:
 $4 \times 10 - 9$

Leanne's solution:
 $4 + (9 \times 3)$

Are their strategies correct?

How many matchsticks would be needed to make 5 cells, 12 cells, 27 cells?

Choose 2 strategies. How do you think the person arrived at his or her strategy?