



Dimension = $(x+2)(x+10)$

Dimension = $(x+1)(x+11)$

Conclusions:

Notice that when I'm fixed with 12 sticks, my possible choice of rectangles can be made is up to 5.

Can also have dimensions like $(x+3)(x+9)$, $(x+4)(x+8)$, $(x+5)(x+7)$ that will be good for all bases.

The rule is the 2 numbers add up to give 12, but cannot be 6+6 because that will give a square.

Given: 1 square, 100 sticks and lots of units

I can have different dimensions of rectangles of up to 49 kinds ($100/2 - 1 = 49$)

Examples:

$(x+1)(x+99)$

$(x+2)(x+98)$

$(x+3)(x+97)$

...

$(x+49)(x+51)$