length b and one side has length a: $a_+b_+b_=4365\implies a_=4365_2b$ the area: area=a×b=(l-2b)b= 4365b-2b^2 Note that the formula is for parabola. Now find the vertex:

Square the unit for vertex's vertical coordinate since it is a quadratic.

 $vertex = (\frac{4365}{4} meters , \frac{19053225}{9} meters^2)$

Since the fences enclose a rectangular plot without one side, two sides have