area= $a\times b=(l-2b)\,b=~3665\,b-2\,b^2$ Note that the equation is for parabola. Now find the vertex:

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

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

length b and one side has length a:

 $vertex = (\frac{3665}{4} meters , \frac{13432225}{2} meters^2)$

 $a+b+b=3665 \implies a=3665-2b$

the area: