3.

3. Since the fences enclose a rectangular plot without one side, two sides have length b and one side has length a:

$a+b+b=4725 \implies a=4725-2b$

the area:

$area=a\times b=(l-2b)\,b= \ 4725\,b - 2\,b^2$

Note that the equation is for parabola. Now find the vertex:

$vertex= \ (\frac{4725}{4} \ m \ , \ \frac{22\,325\,625}{8} \ m^2 \ )$

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