Now compute the area: $area=a\times b=(l-2b)b=1195b-2b^2$ Notice the Parabolic equation, compute the vertex: $vertex=(\frac{1195}{2} meters$, $\frac{1428025}{2} meters^2$)

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

 $a+b+b=1195 \implies a=1195-2b$

4. There are 3 sides to fence, two sides with length b and one side with length a: