Now compute the area:  $area=a\times b=(l-2b)\,b=\ 1425\,b-2\,b^2$  Notice the Parabolic equation, compute the vertex:  $vertex=\ (\frac{1425}{4}\ m\ ,\ \frac{2\,030\,625}{9}\ m^2\ )$ 

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

 $a+b+b=1425 \implies a=1425-2b$ 

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