$a+b+b=3273 \implies a=3273-2b$ Now compute the area:

 $area = a \times b = (l - 2b) b = 3273 b - 2 b^2$

vertex= $(\frac{3273}{4} \text{ m}, \frac{10712529}{9} \text{ m}^2)$

Notice the Parabolic equation, compute the vertex:

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

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