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

Notice the Parabolic function, find the vertex:

 $area=a \times b = (l-2b)b = 4944b - 2b^2$

 $vertex = (1236 m, 3055392 m^2)$

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

 $a+b+b=4944 \implies a=4944-2b$ Now find the area: