3.

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

$a+b+b=4304 \implies a=4304-2b$

Now find the area:

$area=a \times b=(l-2b)b= 4304\,b - 2\,b^2$

Notice the Parabolic equation, find the vertex:

$vertex= (1076 \text{ meters} , 2\,315\,552 \text{ meters}^2)$

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