Now solve for the area: $area=a \times b = (l-2b)b=3365b-2b^2$ Notice the Parabolic function, solve for the vertex: $vertex=(\frac{3365}{4} \text{ meters }, \frac{11323225}{2} \text{ meters}^2)$

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

 $a+b+b=3365 \implies a=3365-2b$

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