2.

other edge of rectangle. Area of the rectangle is = uimesa.

2. Perimeter of rectangle = 2(u+a)=128 where a is the length of the

Use perimeter equation and solve for a=  $\frac{128-2u}{2}$ 

Then reformulate the area  $U= u \times a = 64 u - u^2$  which turns out to be

a quadratic Parabola: 1000 800 600 400 200

Compute the vertex  $\frac{128}{4}$  and then plug the vertex into the area which will compute the maximum area.