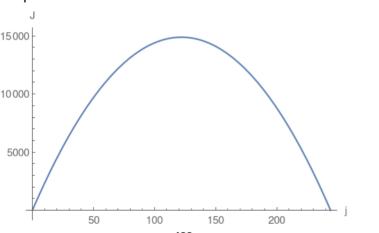
Use perimeter equation and solve for $a=\frac{488-2j}{2}$ Then reformulate the area $J=j\times a=244\ j-j^2$ which turns out to be a quadratic Parabola:

1. Perimeter of rectangle = 2(j+a)=488 where a is the length of the

other edge of rectangle. Area of the rectangle is = j \times a.



Compute the vertex $\frac{488}{4}$ and then plug the vertex into the area which will compute the maximum area.