Perimeter of rectangle = 2(p+a)=483 where a is the length of the

other edge of rectangle. Area of the rectangle is = $p \times a$. Use perimeter equation and solve for $a = \frac{483-2p}{2}$

Then reformulate the area $P = p \times a = \frac{483 p}{2} - p^2$ which turns out to be a quadratic Parabola: 15000 F 10000 5000

Compute the vertex $\frac{483}{4}$ and then plug the vertex into the area which will compute the maximum area.