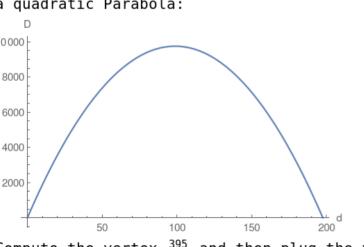
2. Perimeter of rectangle = 2(d+a)=395 where a is the length of the other edge of rectangle. Area of the rectangle is = dimesa. Use perimeter equation and solve for a= $\frac{395-2d}{2}$

Then reformulate the area $D=d\times a=\frac{395\,d}{2}-d^2$ which turns out to be a quadratic Parabola: 10000 8000 6000



Compute the vertex $rac{395}{4}$ and then plug the vertex into the area which will compute the maximum area.