other edge of rectangle. Area of the rectangle is = $l \times a$. Use perimeter equation and solve for a= $rac{125-2l}{2}$

2. Perimeter of rectangle = 2(l+a)=125 where a is the length of the

Then reformulate the area $L=1\times a=\frac{125\,l}{2}-l^2$ which turns out to be a quadratic Parabola: 1000 800 600 400

10 20 30 40 50 Compute the vertex $rac{125}{4}$ and then plug the vertex into the area which will compute the maximum area.