other edge of rectangle. Area of the rectangle is = timesa. Use perimeter equation and solve for a= $\frac{345-2t}{2}$

2. Perimeter of rectangle = 2(t+a)=345 where a is the length of the

Then reformulate the area $T = t \times a = \frac{345 t}{2} - t^2$ which turns out to be a quadratic Parabola: 6000

2000



50 100 Compute the vertex $\frac{345}{4}$ and then plug the vertex into the area which will compute the maximum area.