F.

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

Use perimeter equation and solve for a= $\frac{179-2n}{2}$ Then reformulate the area N= n×a = $\frac{179\,n}{2}$ - n^2 which turns out to be

4. Perimeter of rectangle = 2(n+a)=179 where a is the length of the

a quadratic Parabola: 2000 1500 1000

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Compute the vertex $\frac{179}{4}$ and then plug the vertex into the area which will compute the maximum area.

80