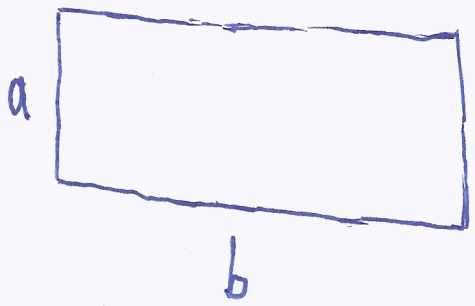
'Can They Be Equal?'

Perimeter $P = 2a + 2b$

Area $A = a \cdot b$



$$\boxed{2a + 2b = a \cdot b}$$

I can choose $\boxed{a}$ and then Find $\boxed{b}$.

- $a = 6$

$2 \cdot 6 + 2 \cdot b = 6 \cdot b$

$12 = 4 \cdot b$

$b = 3, P = 18, A = 18$

- $a = 4, b = 4$
- $a = 5, b = \frac{10}{3}$
- $a = 7, b = \frac{14}{5}$
- $a = 8, b = \frac{8}{3}$
- $a = 10, b = \frac{5}{2}$

There are infinitely many ways how to choose $\boxed{a}$ and thus infinitely many such rectangles.

Kryštof