POTW#7

**"Total Rectangles"**

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**1) What is the total number of rectangles of any size in the figure above?
2) What is the total number of rectangles of any size if a figure is made up of 6 small rectangles?
3) What would be the total number of rectangles, of any size if a figure is made up of "n" (any number) of small rectangles?  In other words what is the rule, or what is the algebra expression?**