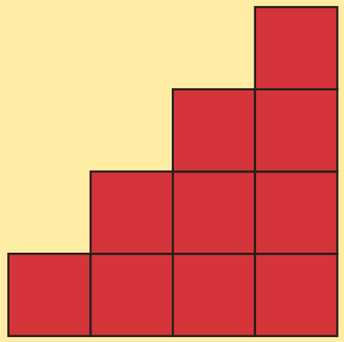
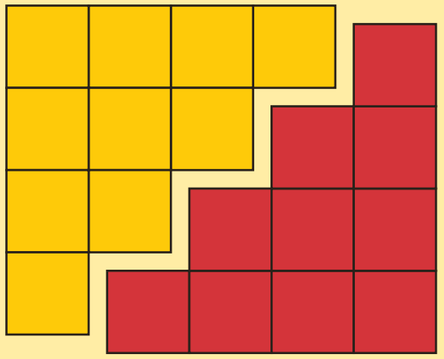
$$(1+2+3+4)^2 = 10^2 = 100 = 1+8+27+64 = 1^3+2^3+3^3+4^3$$

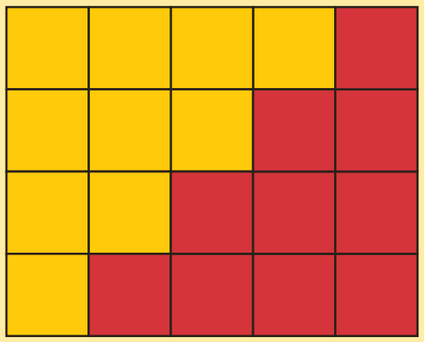
SOMMES d'ENTIERS



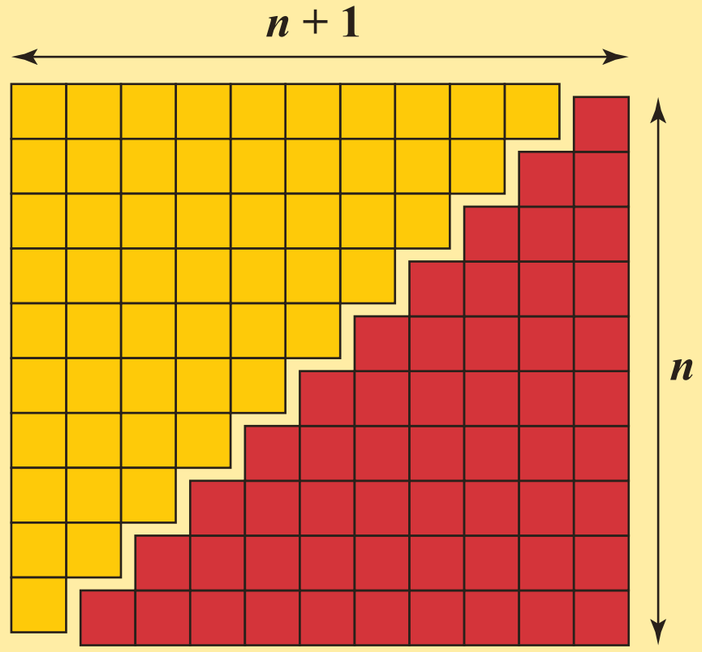
$1 + 2 + 3 + 4$



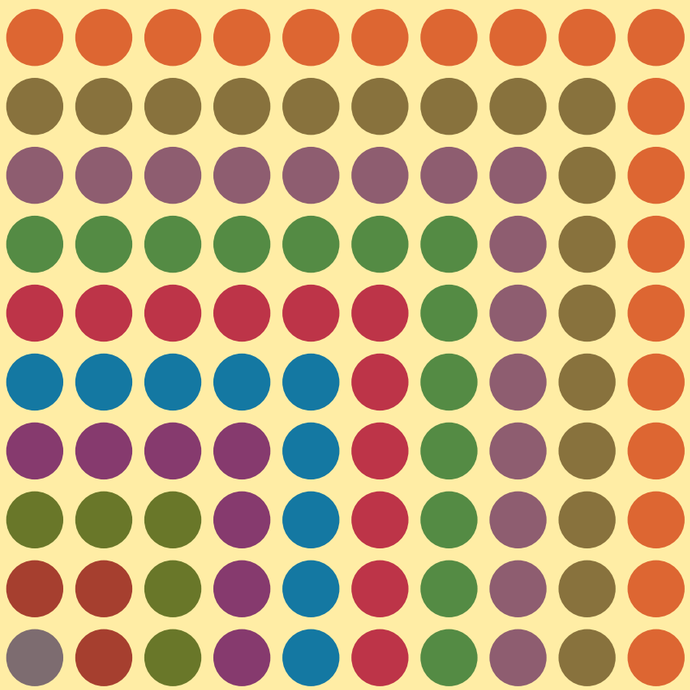
$2 \times (1 + 2 + 3 + 4)$



$2 \times (1 + 2 + 3 + 4) = 4 \times 5$



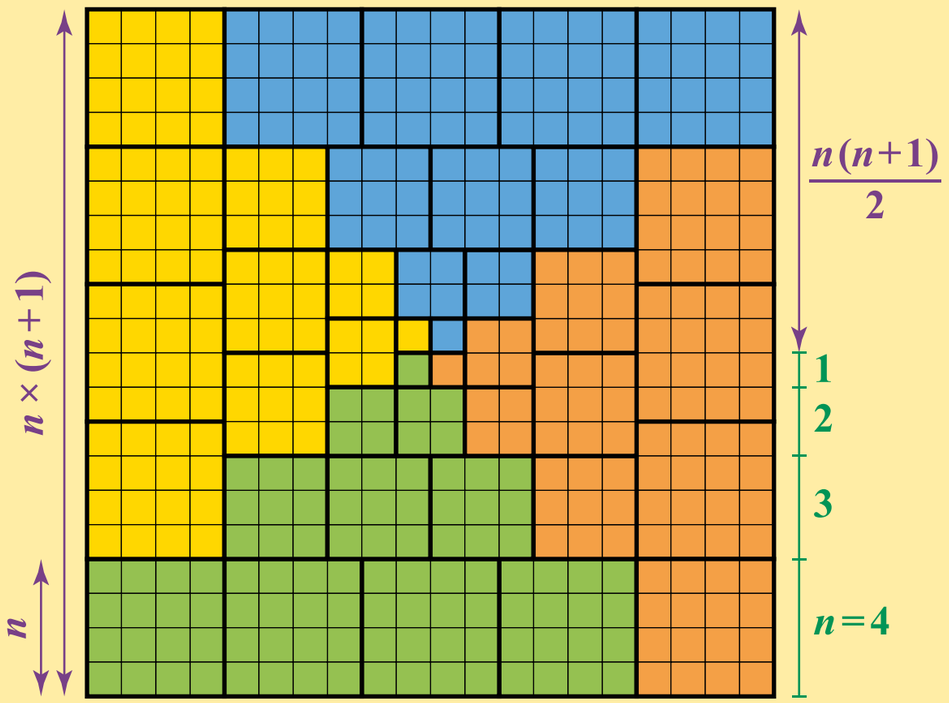
$$1+2+3+\cdots\cdots+n = \frac{n\,(n+1)}{2}$$

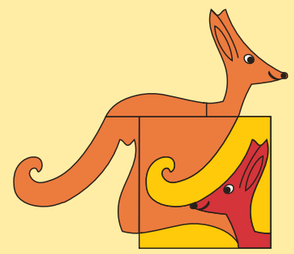


La somme des n premiers entiers impairs vaut n^2.

$1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17 + 19 = 100$

$$1^3 + 2^3 + 3^3 + \ldots + n^3 = \frac{1}{4}\left[n\,(n+1)\right]^2$$





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