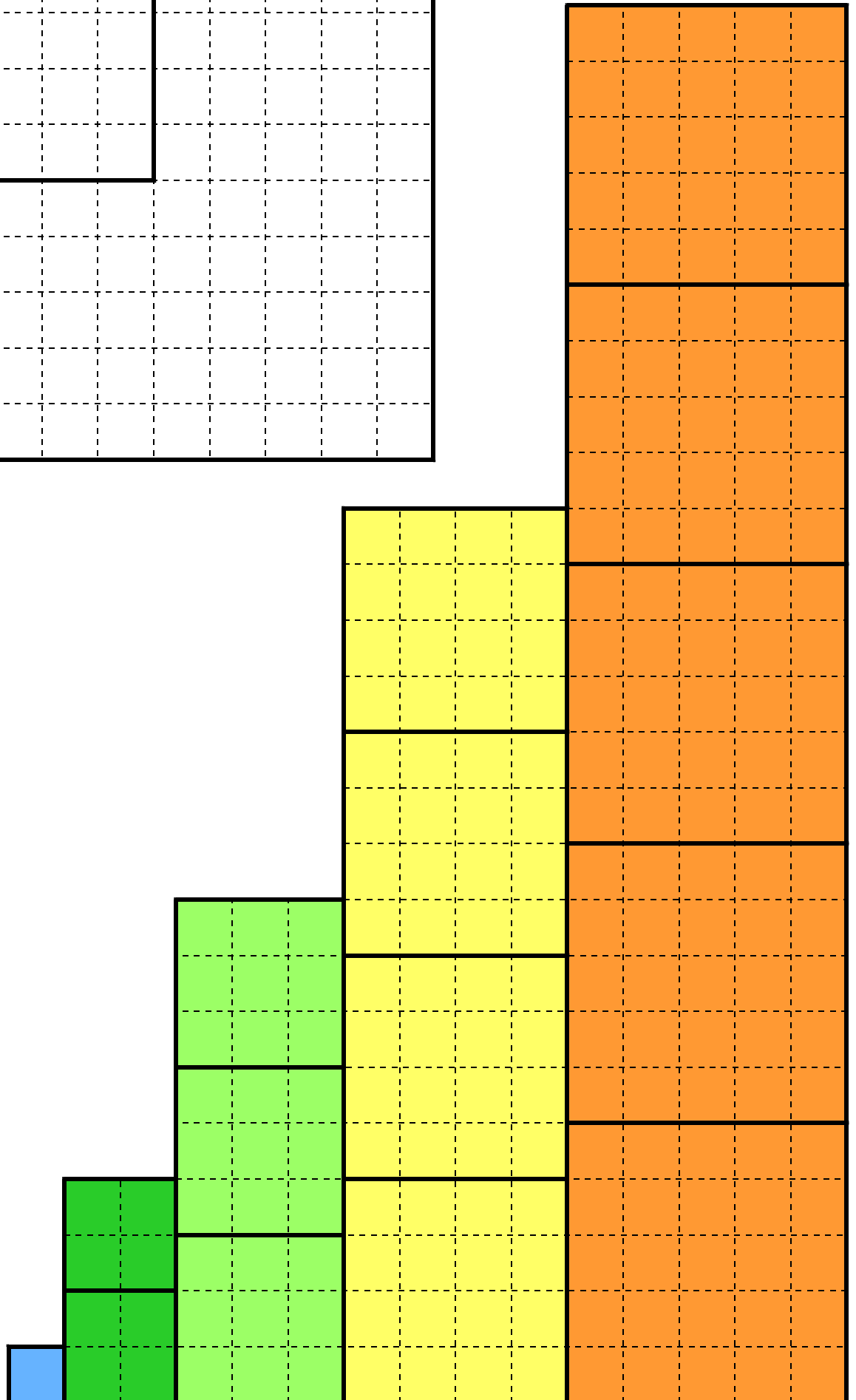
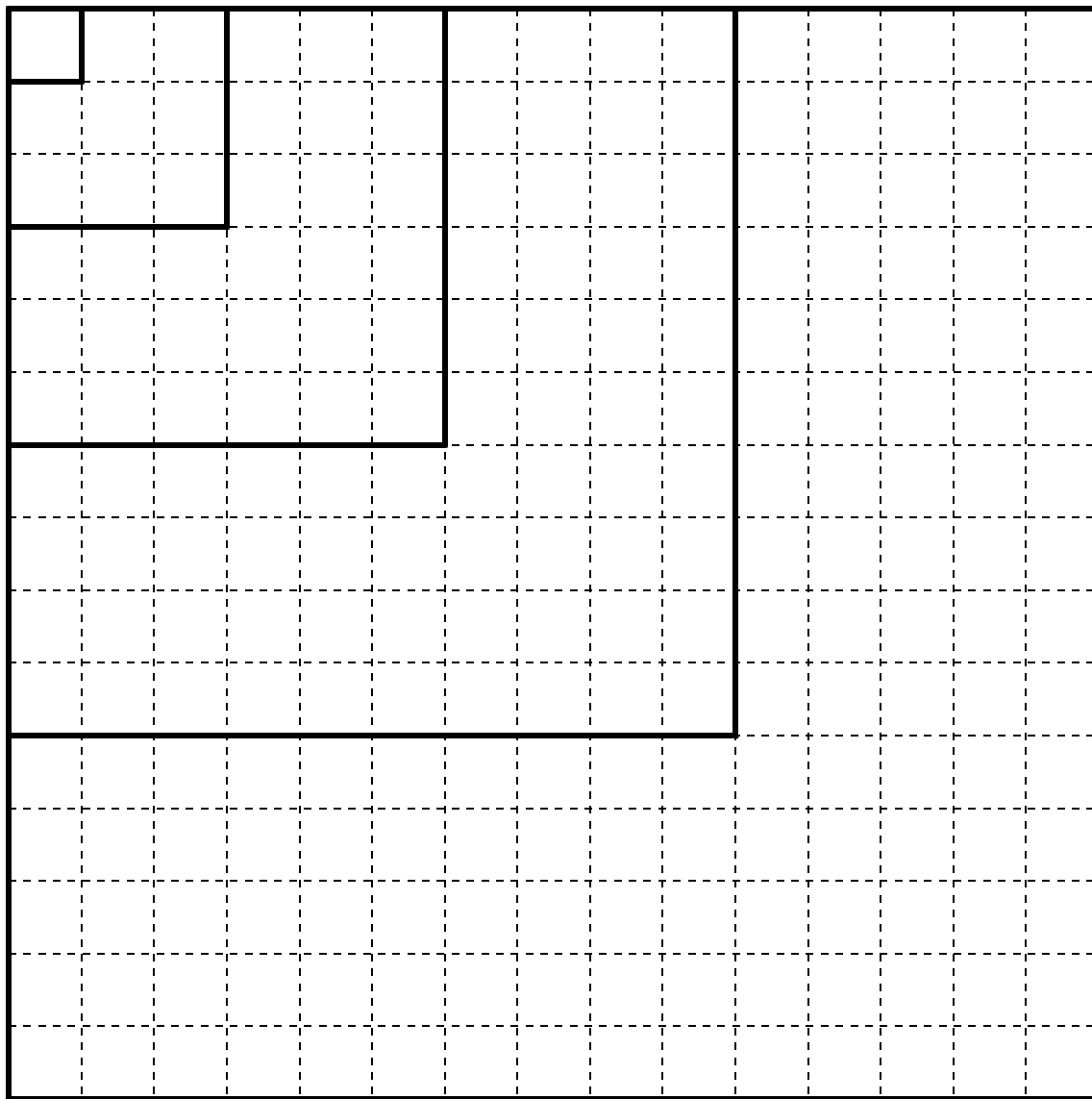
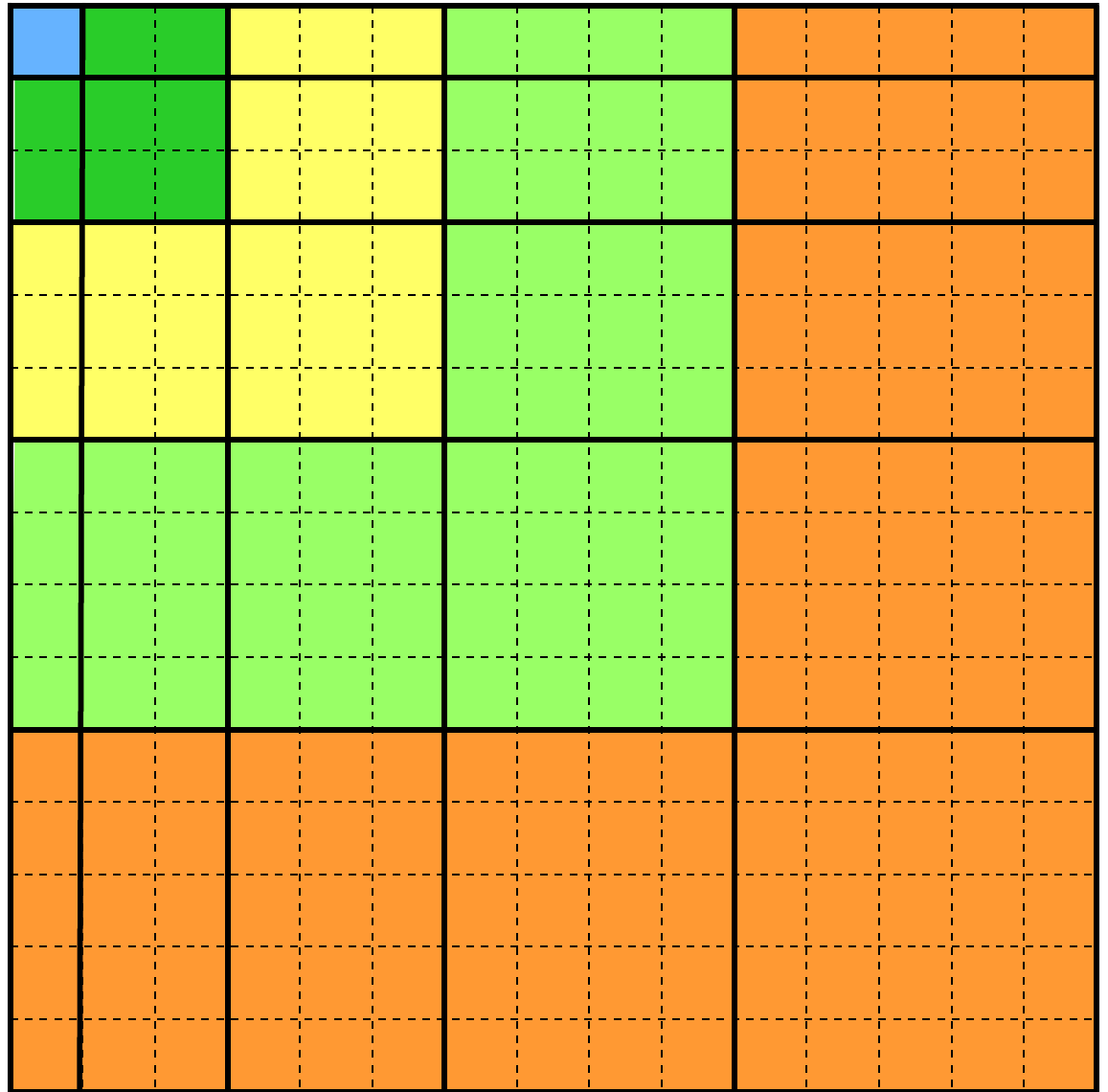


(7) 立方の和 I



$1^2 \times 1$ $2^2 \times 2$ $3^2 \times 3$. . . $n^2 \times n$

(8) 立方の和Ⅱ



$$1^3 \quad 2^3 \quad 3^3 \quad \dots \quad n^3$$

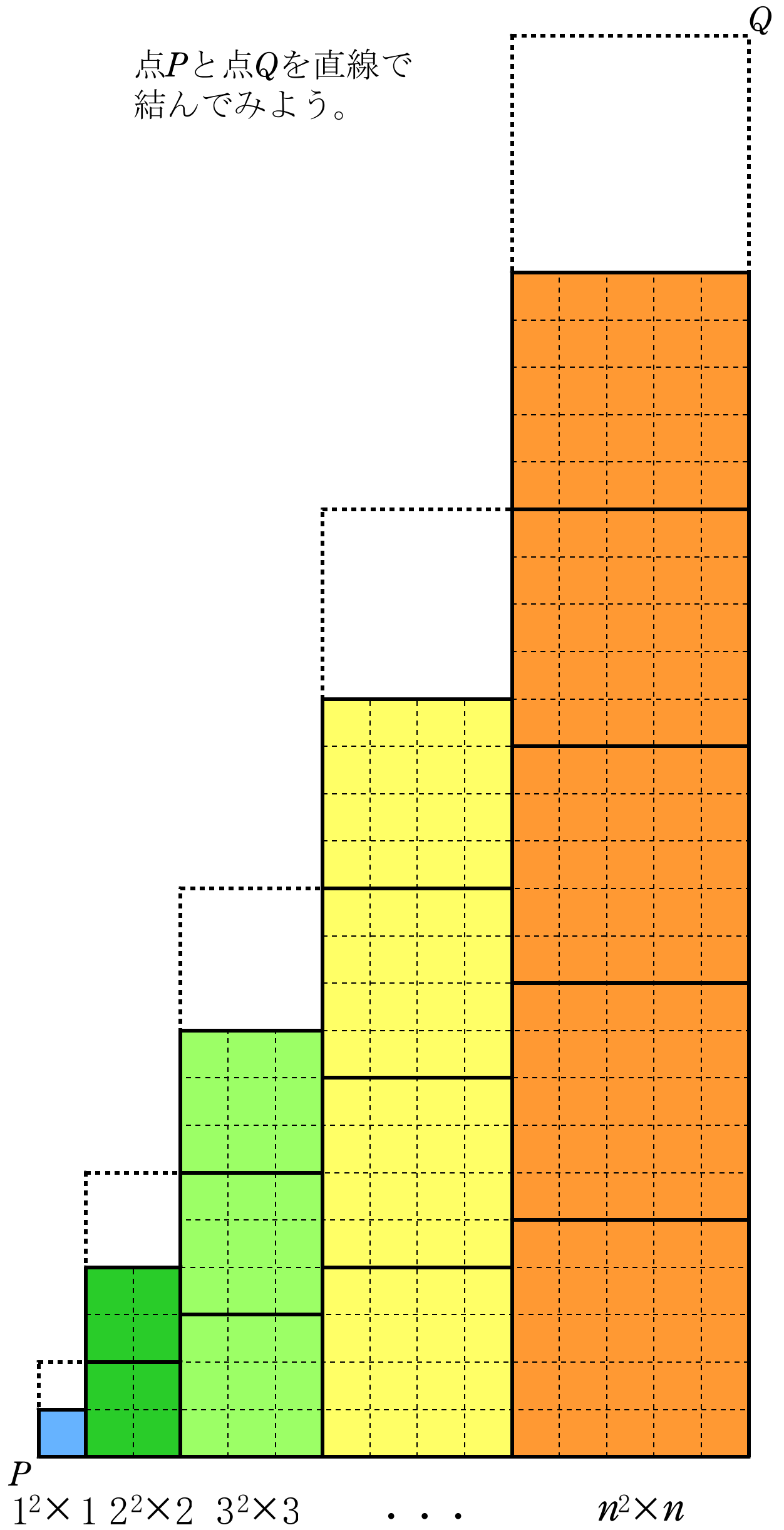
1	2	3	...	n
2	4	6	...	$2n$
3	6	9	...	$3n$
⋮	⋮	⋮		⋮
n	$2n$	$3n$...	n^2

1	2	3	...	n
2	4	6	...	$2n$
3	6	9	...	$3n$
⋮	⋮	⋮		⋮
n	$2n$	$3n$...	n^2

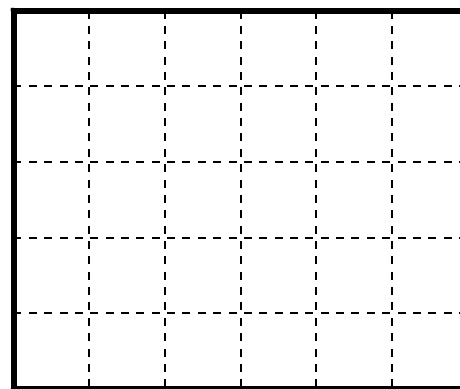
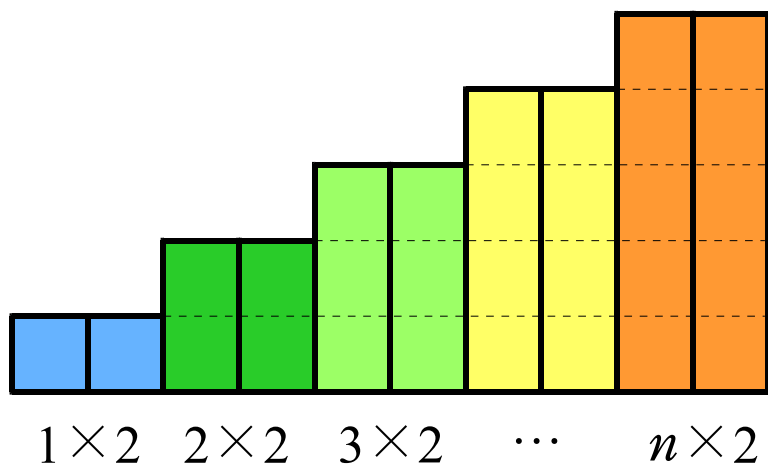
$$\left. \begin{array}{l} \sum_{k=1}^n k \\ 2 \sum_{k=1}^n k \\ 3 \sum_{k=1}^n k \\ \vdots \\ n \sum_{k=1}^n k \end{array} \right\} (1+2+3+\dots+n) \sum_{k=1}^n k \\
 = \sum_{k=1}^n k \sum_{k=1}^n k = \left(\sum_{k=1}^n k \right)^2 = \left(\frac{n(n+1)}{2} \right)^2$$

(9) 立方の和Ⅲ

点 P と点 Q を直線で
結んでみよう。



(1 0) 自然数の和



(1 1) 連続する2つの自然数の積の和

