

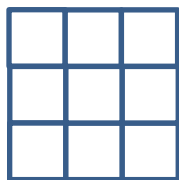
example for $A \dots \dots$ and $a(4)$, we have ...



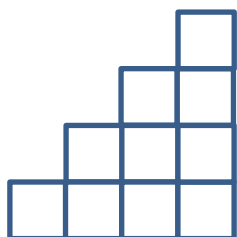
square size one = $sq_1 = \square_1$



square size two = $sq_2 = \square_2$



square size three = $sq_3 = \square_3$

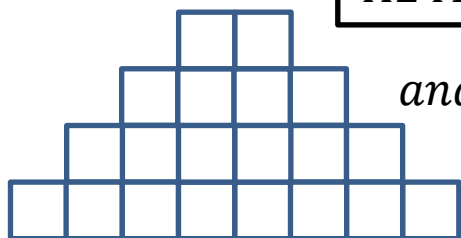


A173196

in this shape (A173196)

and for $a(4)$ we have : $10sq_1 + 3sq_2 = 13$ squares

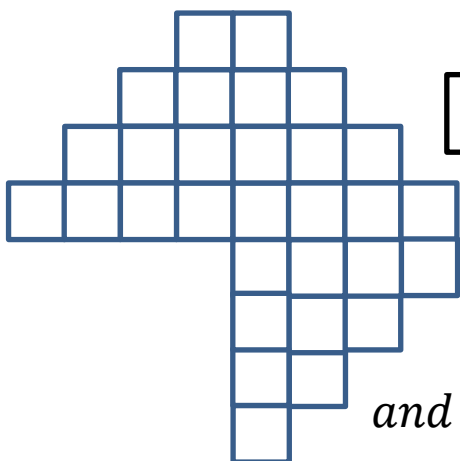
A241526



in this shape (A241526)

and for $a(4)$ we have : $20sq_1 + 9sq_2 + 2sq_3 = 31$ squares

A258440



in this shape (A258440)

and for $a(4)$ we have : $30sq_1 + 15sq_2 + 4sq_3 = 49$ squares

consider A173196 like intersection of 2 A241526

A241526



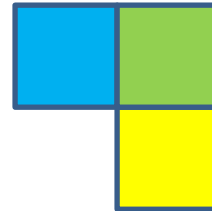
$$2sq_1$$

A241526



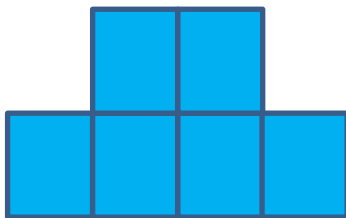
$$2sq_1$$

A173196

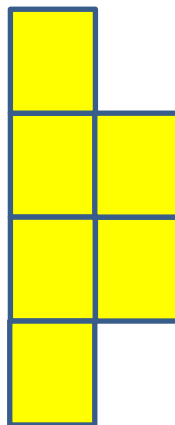


$$(2sq_1 + 2sq_1) - 1sq_1 = 3 \text{ squares}$$

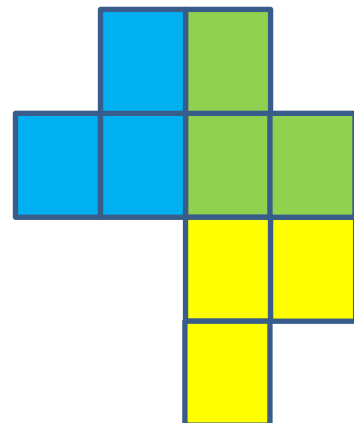
for a (1)



$$6sq_1 + 1sq_2 = 7 \text{ squares}$$



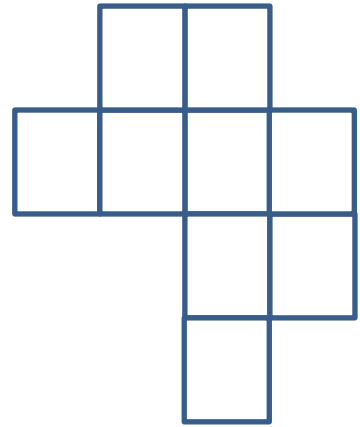
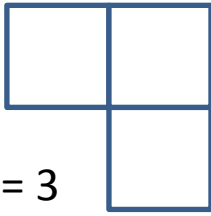
$$6sq_1 + 1sq_2 = 7 \text{ squares}$$



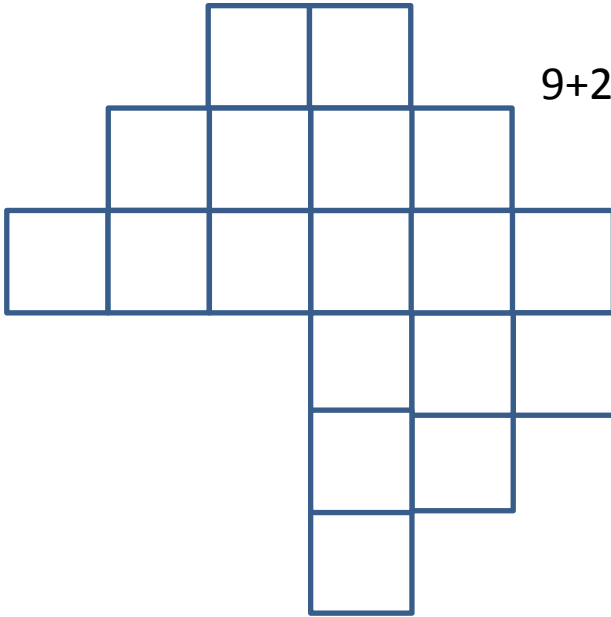
$$(7 \text{ squares} + 7 \text{ squares}) - 3 \text{ squares} = 11 \text{ squares}$$

for a (2)

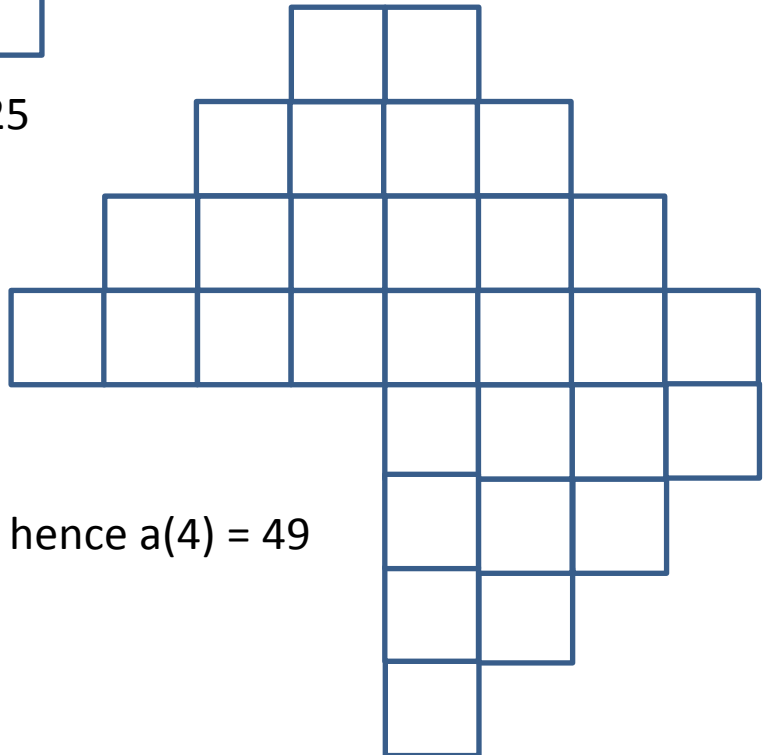
3 squares hence $a(1) = 3$



9+2 squares hence $a(2) = 11$



18+7 squares hence $a(3) = 25$



30+ 15 + 4 squares hence $a(4) = 49$