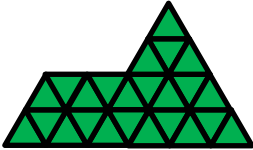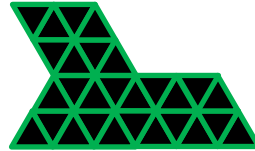$a(1) = 6 + 1 = 7$
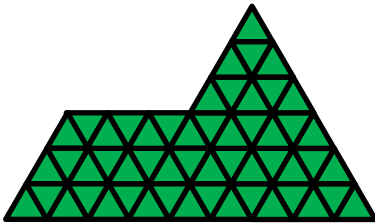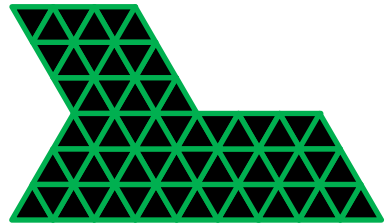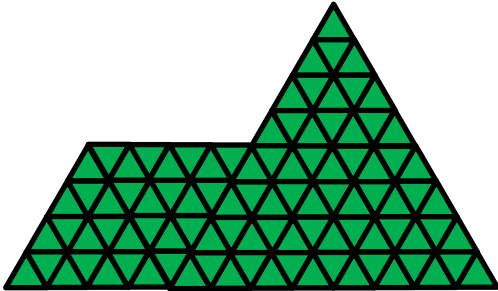
$a(2) = 7 + 1 = 8$
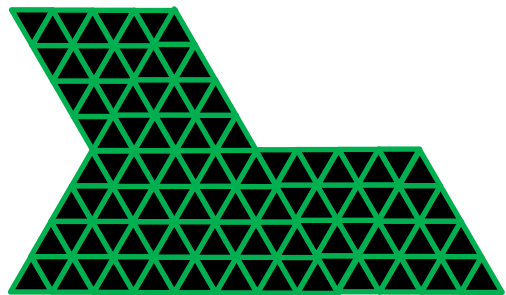
$a(3) = 24 + 11 + 3 + 1 = 39$

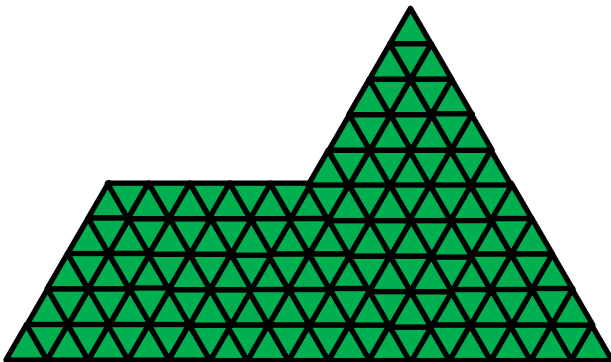$a(4) = 28 + 13 + 3 + 1 = 45$

$a(5) = 54 + 33 + 17 + 6 + 3 + 1 = 114$

$a(6) = 63 + 39 + 120 + 6 + 3 + 1 = 132$

$a(7) = 96 + 67 + 43 + 24 + 10 + 6 + 3 + 1 = 250$

$a(8) = 112 + 79 + 50 + 29 + 10 + 6 + 3 + 1 = 290$

$6 - n^2, 5 - gon$

$7 - n^2, 7 - gon$

$a(9) = 150 + 113 + 81 + 54 + 32 + 15 + 10 + 6 + 3 + 1 = 114$