Find the number of matchsticks in the nth pattern.

## Section A



## Section B



## Section C


$10^{\text {th }}$ pattern $=71$ $7 n+1$
$10^{\text {th }}$ pattern $=55$
$5 n+5$
$10^{\text {th }}$ pattern $=51$
$5 n+1$
$10^{\text {th }}$ pattern $=62$
$6 n+2$

## Extension

$\square$

$10^{\text {th }}$ pattern $=121$ $(\mathrm{n}+1)^{2}$

