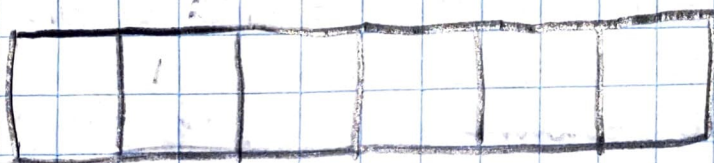


# Break it up

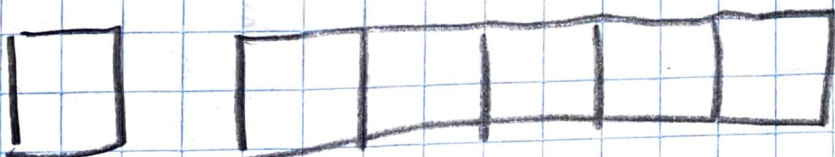
Samar

## Continued

### 6 Blocks



This is the start.



When I continue the pattern I get 5 solutions not including the start.

## What do you notice?

I notice that the number of solutions is one less than the number of blocks because the starting block is not a solution that I counted.

7 21 42

# Sticks of seven cubes



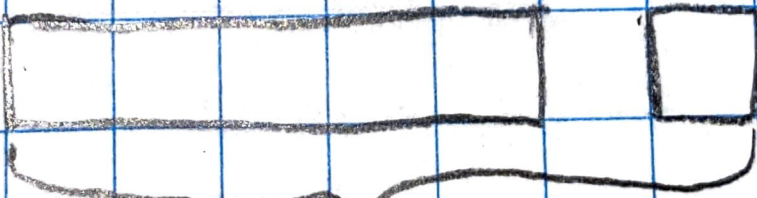
← Does not count 9



W n  
alw  
doe



I r  
be  
is



Av

# Sticks of 6 cubes

Yes your noticing will always be true because your solution will always be 1 stick less unless you included the base number but you need to split it in 2. So basically if you don't change the order the solution will always be one stick less.

sticking!