

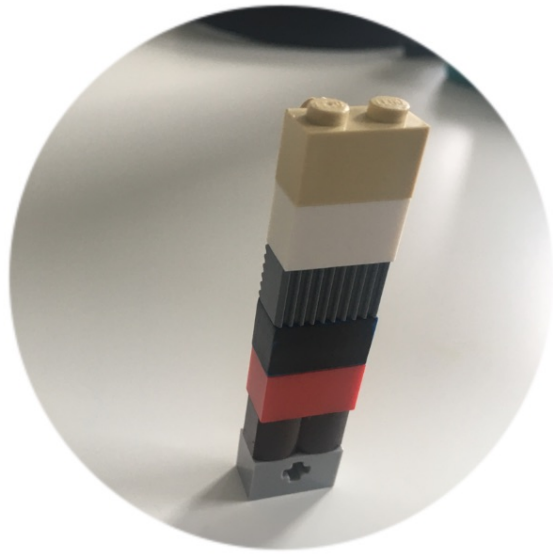
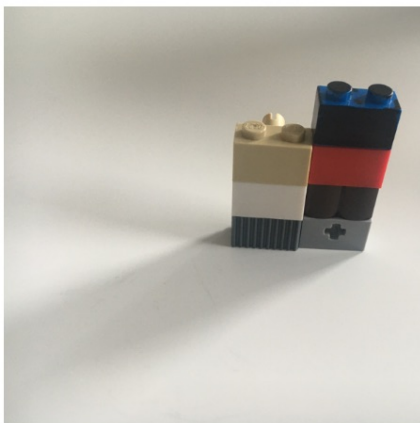
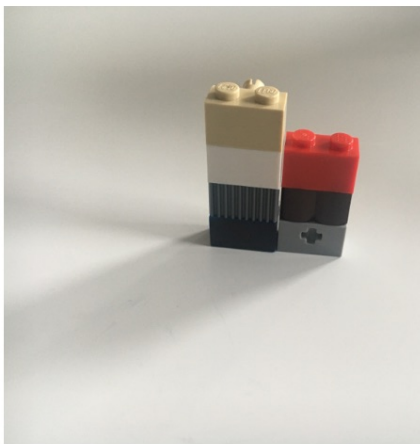
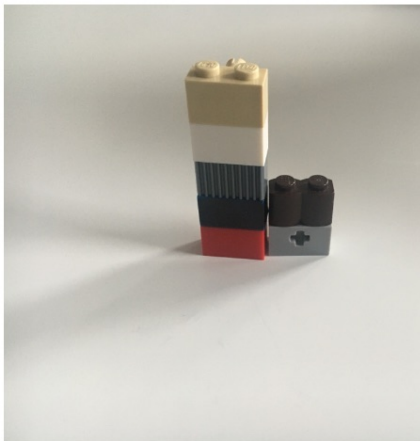
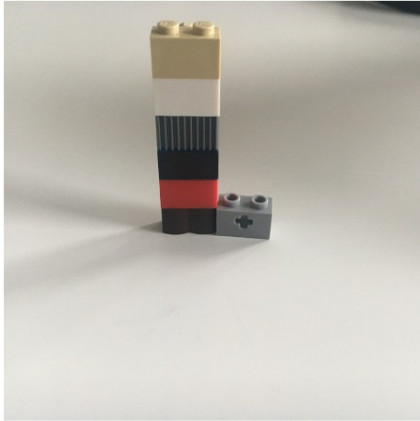
BREAK IT UP

My Recordings for DIFFERENT Colour of Bricks:

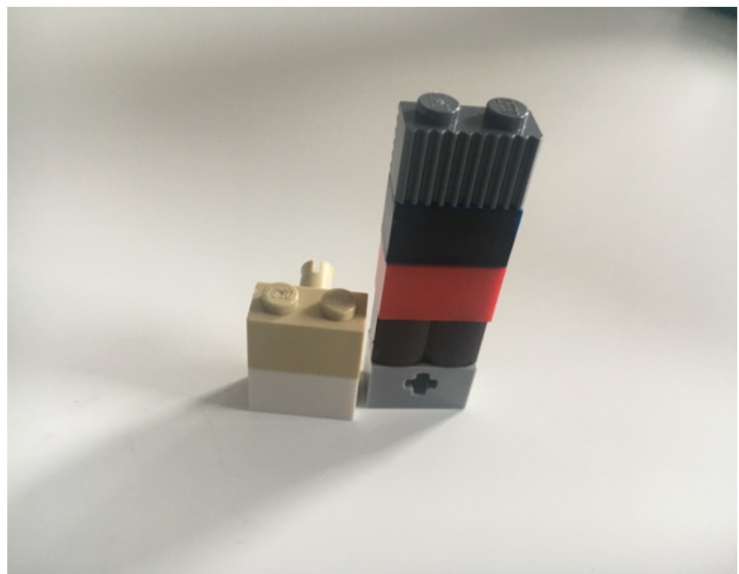
Number of Lego bricks	Number of ways
5	4
6	5
7	6
8	7
20	19
If n is number of bricks	Then number of ways $= n - 1$

My Observation:

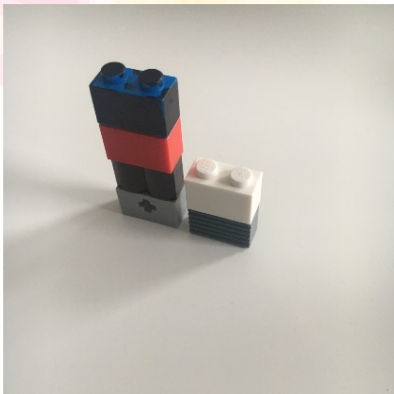
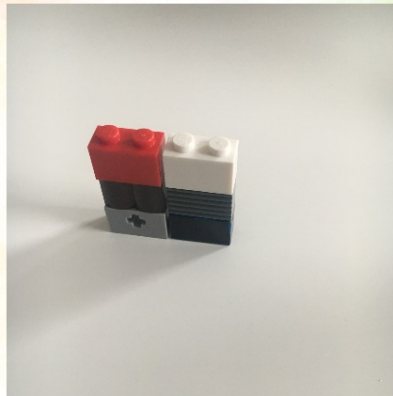
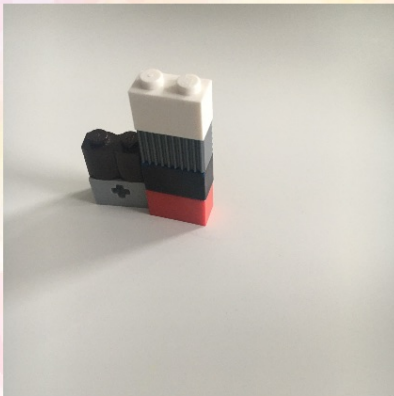
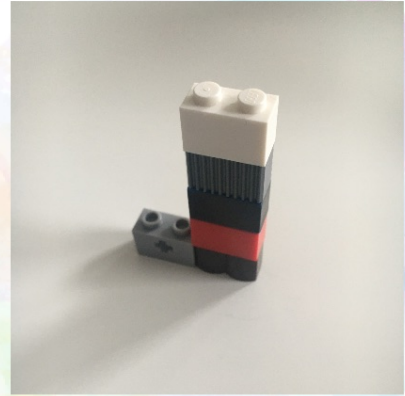
- If there are odd number of bricks the number of ways will be even
- If the number of bricks are even the number of ways will be odd.



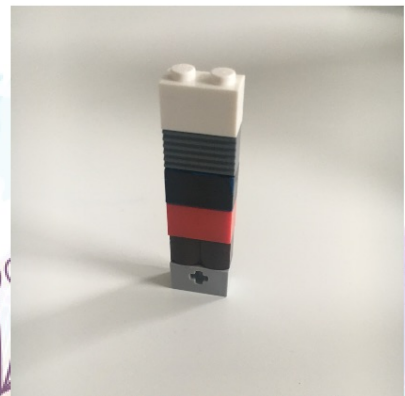
Odd no of bricks = 7, even no of ways = 6



Even no of bricks =6 ,so odd
number of ways =5



Break it up



My Recordings for **SAME** Colour of Bricks:

Number of Lego bricks	Number of ways
5	2
6	3
7	3
8	4
20	10
If n is even number of bricks	Then number of ways = $n/2$
If n is Odd number of bricks	Then number of ways = $(n-1)/2$