

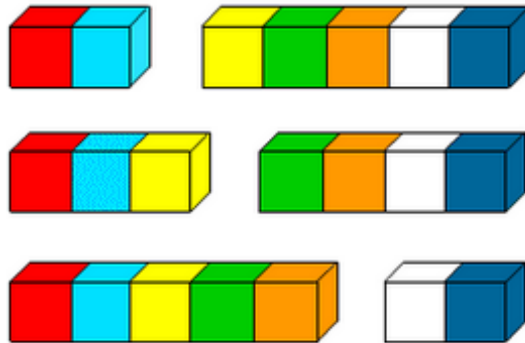
# Cube Crazy

You have a stick of 7 interlocking cubes. You cannot change the order of the cubes.



You break off a bit of it leaving it in two pieces.

Here are 3 of the ways in which you can do it:



In how many different ways can it be done?

Now try with a stick of 8 cubes and a stick of 6 cubes:



Make a table of your results like this:

Number of cubes	Number of ways
6 cubes	?
7 cubes	?
8 cubes	?

Now predict how many ways there will be with 5 cubes.

Were you right?

How many ways with 20 cubes? 50 cubes? 100 cubes?

ANY number of cubes?

