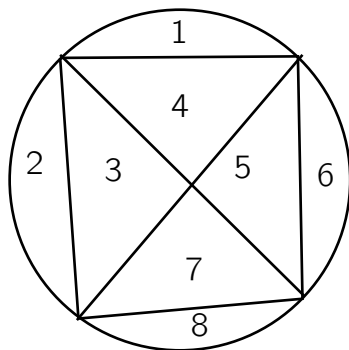


The Law of Small Numbers

Circle crossings

Mark 6 points on a circle, and join them all with straight lines. How many different regions are there?

4 points: 8 regions



Partial sums

Write down the numbers, delete every other one, then write the partial sums underneath:

1	2	3	4	5	6	7	8	9	10	11
1		4		9		16		25		36

Start again, but delete every third one, then every second partial sum, then take partial sums again:

1	2	3	4	5	6	7	8	9	10	11
1	3		7	12		19	27		37	48
1			8			27			64	

Is there a pattern?