

Counting Numbers		
Number	Sum	Total
1	1	1
2	1+2	3
3	1+2+3	6
4		
5		
6		
7		
8		
9		
10		
20		
n	1+2+3+ ... n	

Odd Numbers			
	Number	Sum	Total
1	1	1	1
2	3	1+3	4
3	5	1+3+5	9
4	7		
5	9		
6	11		
7	13		
8	15		
9	17		
10	19		
20			
n			

Cubes			
	Cube	Sum	Total
1	1	1	1
2	8	1+8	9
3	27	1+8+27	36
4	64		
5	125		
6			
7			
8			
9			
10			
20			
n			

Fill in the blanks for the sequences and total in each chart. Can you guess the formula for n?

Can you say why the formula works using algebra or drawing a picture?