

OLYMPIAD · MENTAL ABILITY · OLYMPIAD PREPARATION · FORMULA BANK

Chapter 1: Number and Letter Series

Every formula and result of the chapter on one sheet

1	Arithmetic series	$a, a + d, a + 2d, \dots$
2	Geometric series	$a, ar, ar^2, \dots$
3	Sum of first n natural numbers	$\frac{n(n+1)}{2}$
4	Sum of first n odd numbers	n^2
5	Squares to remember	1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144
6	Cubes to remember	1, 8, 27, 64, 125, 216, 343, 512, 729, 1000
7	Opposite letter of the one at position n	position $27 - n$