

NUMBER PATTERNS

(zeroth-degree, or constant) 1, 1, 1, 1, 1,...
17, 17, 17, 17, 17,...

(first-degree, or linear) 0, 1, 2, 3, 4,... whole numbers
17, 18, 19, 20, 21,...
0, 2, 4, 6, 8,... even numbers
1, 3, 5, 7, 9,... odd numbers
1, 4, 7, 10, 13,...
6, 12, 18, 24, 30,...
30, 47, 64, 81, 98,...

(second-degree, or quadratic) 0, 1, 4, 9, 16,... square numbers, or perfect squares
0, 1, 3, 6, 10,... triangular numbers
0, 2, 6, 12, 20,...
0, 1, 5, 12, 22,... pentagonal numbers
1, 7, 19, 37, 61,...
8, 38, 85, 149, 230,...

(third-degree, or cubic) 0, 1, 8, 27, 64,... perfect cubes
0, 1, 4, 10, 20,... "tetrahedral" numbers
0, 1, 5, 14, 30,... "square pyramidal" numbers

(exponential, or geometric) 1, 2, 4, 8, 16,...
1, 3, 9, 27, 81,...
1, 5, 25, 125, 625,...
1, 10, 100, 1000, 10000,...
17, 51, 153, 459, 1377,...

(2nd-order recursive) 1, 1, 2, 3, 5, 8,... Fibonacci numbers