

## mobius

## Patterning - First Values from Equation for Geometric Pattern



1	Choose the first values that this equation would create starting with n=1	$a_n = 2  imes 2^{n-1}$	Choose the first values that this equation would create starting with n=1	$a_n = 2  imes 5^{n-1}$
A	2, 4, 6, 8, 10, 12	B 2, 10, 50, 250, 1,250, 6,250	A 2, 10, 50, 250	B 2, 7, 9, 16
С	2, 2, 2, 2, 2	D 2, 4, 8, 16, 32, 64	C -2, -10, -50, -250	D 2, 8, 32, 128
E	6, 12, 24, 48, 96, 192	F 2, 0, -2, -4, -6, -8	E 2, -3, -8, -13	F 2, 18, 162, 1,458
3	Choose the first values that this equation would create starting with n=1	$a_n =  extstyle 3 imes  extstyle 5^{n-1}$	Choose the first values that this equation would create starting with n=1	$a_n =  extstyle{1} imes  extstyle{2}^{n-1}$
A	1, 5, 25, 125	B 3, 8, 13, 18	A 1, 2, 4, 8, 16, 32	B 0, 0, 0, 0, 0, 0
С	3, 15, 75, 375	D 3, -2, -7, -12	C 1, -1, -3, -5, -7, -9	D 1, 3, 5, 7, 9, 11
Е	6, 30, 150, 750	F 3, 3, 3, 3	E 1, 6, 36, 216, 1,296, 7,776	F 1, -2, 4, -8, 16, -32
5	Choose the first values that this equation would create starting with n=1	$a_n =  extstyle 3 imes  extstyle 3^{n-1}$	Choose the first values that this equation would create starting with n=1	$a_n =  extstyle{1}{ imes 3^{n-1}}$
A	3, 18, 108, 648, 3,888, 23,328	B 3, 0, -3, -6, -9, -12	A 1, 4, 7, 10, 13, 16	B 1, 3, 9, 27, 81, 243
С	3, 12, 48, 192, 768, 3,072	3, 6, 9, 12, 15, 18	C -2, -6, -18, -54, -162, -486	D 1, -2, -5, -8, -11, -14
E	3, 9, 27, 81, 243, 729	F 3, 0, 0, 0, 0, 0	E 1, 4, 5, 9, 14, 23	F 4, 12, 36, 108, 324, 972
7	Choose the first values that this equation would create starting with n=1	$a_n = 3  imes 2^{n-1}$	Choose the first values that this equation would create starting with n=1	$a_n =  extsf{1}  imes  extsf{4}^{n-1}$
А	3, 5, 8, 13, 21, 34	B 3, 6, 12, 24, 48, 96	A 1, 5, 9, 13	B 1, 5, 6, 11
С	3, 1, -1, -3, -5, -7	D 6, 12, 24, 48, 96, 192	C 1, -3, -7, -11	D 1, 2, 4, 8
E	3, 5, 7, 9, 11, 13	F 3, 0, 0, 0, 0, 0	-3, -12, -48, -192	F 1, 4, 16, 64