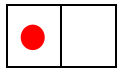


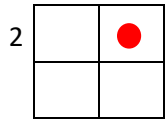
Geometric Sequence



2



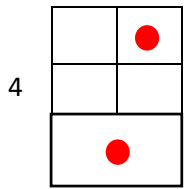
1



2

4

2

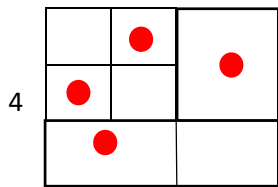


4

8

2

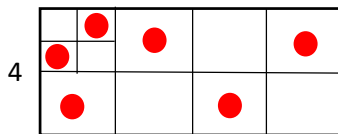
$1+2+4+8+16+32 = ?$



4

16

4



4

32

$\leftarrow 4 \rightarrow \leftarrow 4 \rightarrow$

$$a_1 = 1$$

$$g = \frac{a_n}{a_{n-1}} = 2$$

$$n = 6$$

$$S_6 = \frac{2^6 - 1}{2 - 1} = 63$$

$$S_n = \frac{2^n - 1}{2 - 1} = 2^n - 1$$

$$a_1 = 2^1 - 1 = 1$$

$$g = 2$$

n	S_n
4	$16 - 1 = 15$
5	$32 - 1 = 31$
6	63
7	127