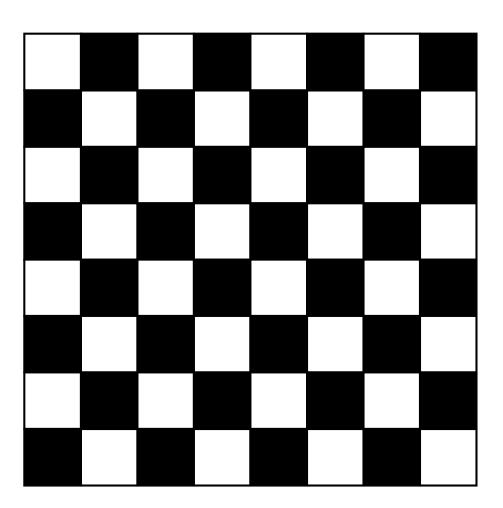
Royal Institution Primary Maths Masterclasses





How many squares are in this image?





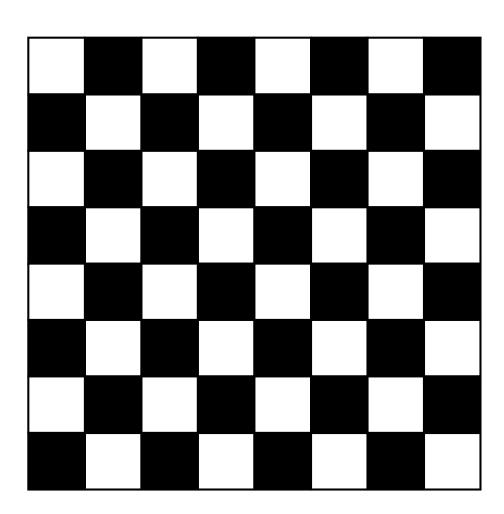
Masterclass network



Can you use a systematic approach

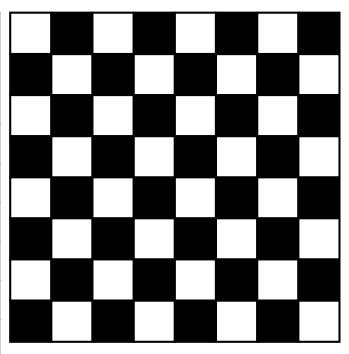
to ensure you have counted all of them?

How can you record your data?



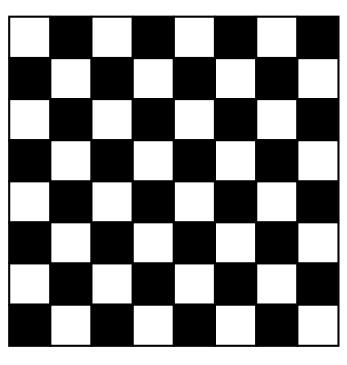


Square size	How many along/up?	How many on the whole board





Square size	How many along/up?	How many on the whole board
1x1	8	64
2x2	7	49
3x3	6	
4x4	5	
5x5	4	
6x6	3	
7x7	2	
8x8	1	



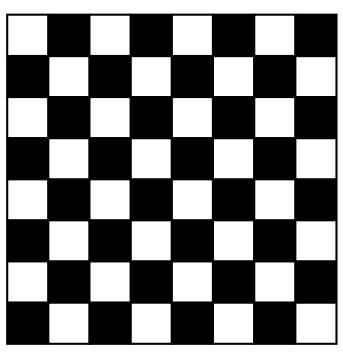
Can you fill in the missing boxes?



Answers on the next slide

 Do not look at the next slide until you have had a go yourself.

Square size	How many along/up?	How many on the whole board
1x1	8	64
2x2	7	49
3x3	6	36
4x4	5	25
5x5	4	16
6x6	3	9
7x7	2	4
8x8	1	1



Number of squares on 8 by 8 chessboard

$$= 64 + 49 + 36 + 25 + 16 + 9 + 4 + 1$$

= 204



Masterclass network