

Welcome to Maths

Please have a seat.

Do Now

- ▶ Complete the Do Now in your booklets.

Do Now - Answers

$$606 + 2,525$$

3,131

$$\frac{2}{7} + \frac{3}{7}$$

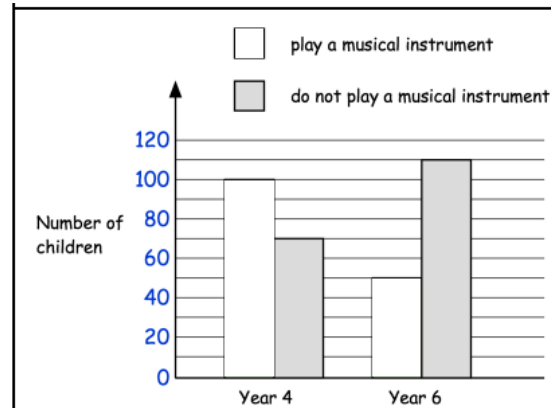
$\frac{5}{7}$

Round 3,541 to the nearest 100

3,500

Round 3,541 to the nearest 1,000

4,000



How many students are there in **total** in Year 4?

170

How many **more** Year 4 children than Year 6 children play a musical instrument?

50

Do Now - Extension Answers

MAGIC Squares

In each square, the rows, columns and diagonals all total the same **MAGIC** number!

Can you complete the squares?

A

1	0	5
		-2

MAGIC No. = 6

B

-3		
	1	-2
		5

MAGIC No. =

C

-6	-1	4
3		

MAGIC No. =

Do Now - Extension Answers

MAGIC Squares

In each square, the rows, columns and diagonals all total the same **MAGIC** number!

Can you complete the squares?

A

1	0	5
6	2	-2
-1	4	3

MAGIC No. = 6

B

-3	6	0
4	1	-2
2	-4	5

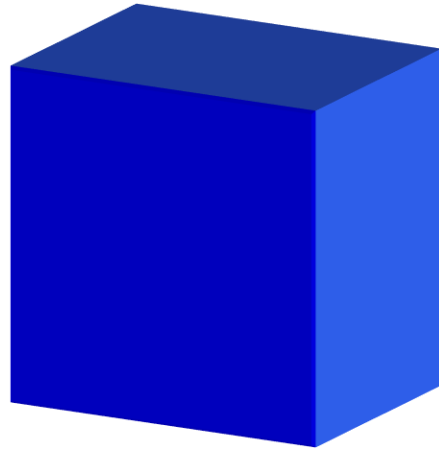
MAGIC No. = 3

C

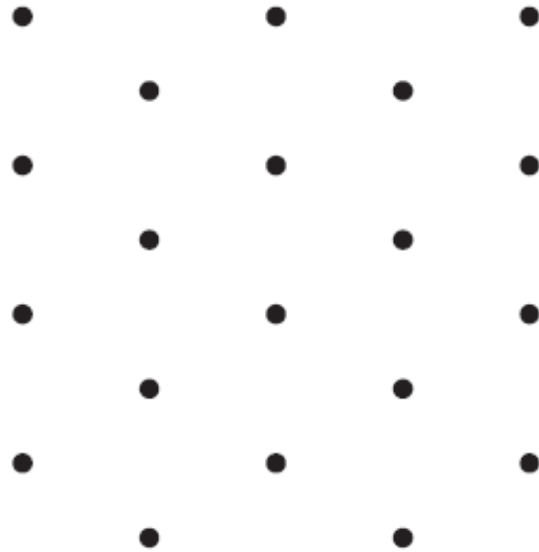
0	2	-5
-6	-1	4
3	-4	-2

MAGIC No. = -3

HIDDEN FACES INVESTIGATION

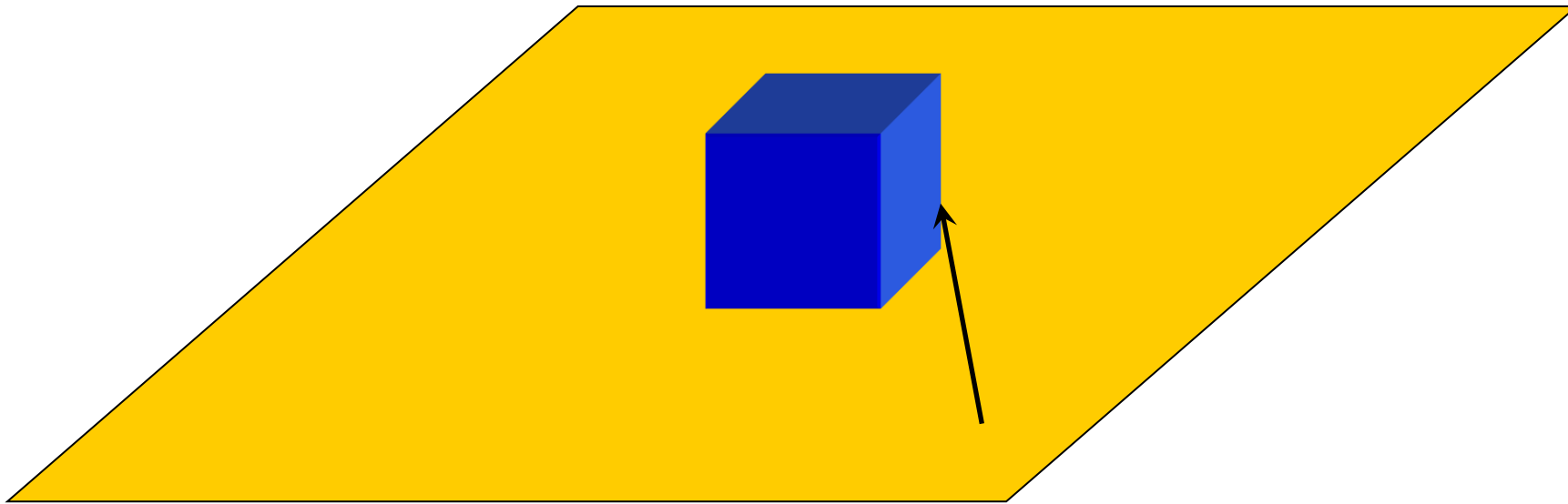


1. Draw one cube on the isometric paper with pencil and a ruler



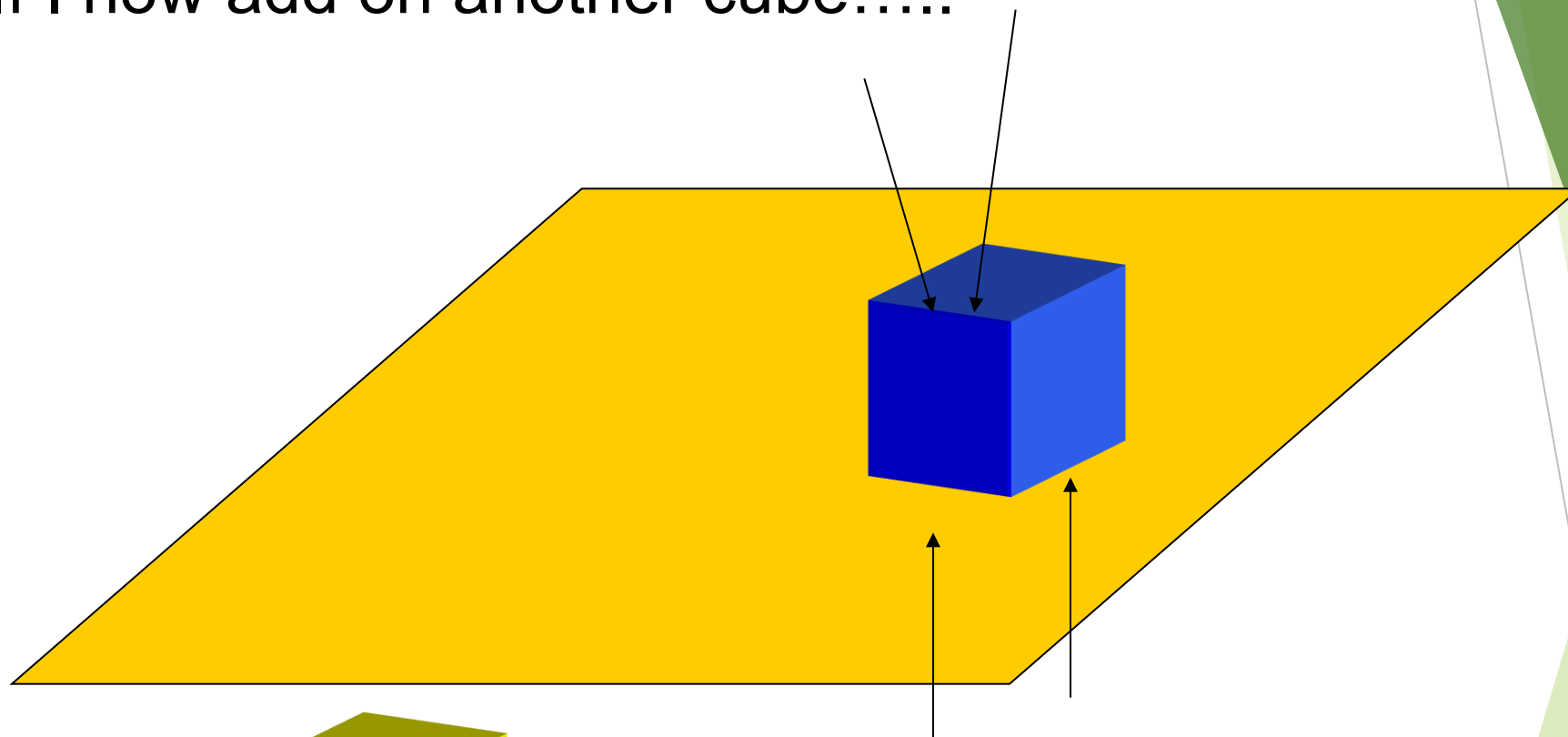
Think about the cube you have just drawn, imagine it is sitting on a table.

You can walk around the table but you cannot pick the cube up

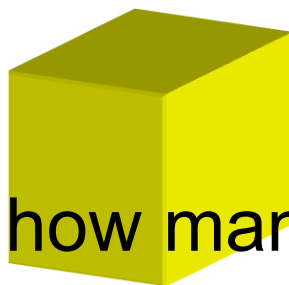


How many faces are hidden?

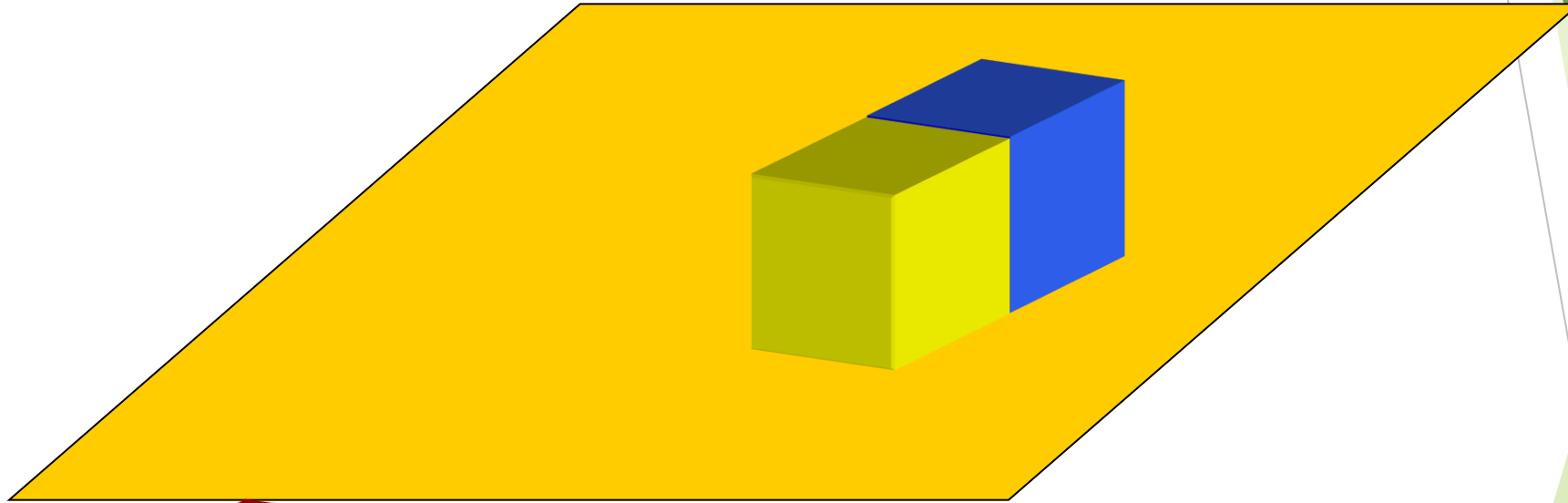
If I now add on another cube.....



....how many faces are hidden now?



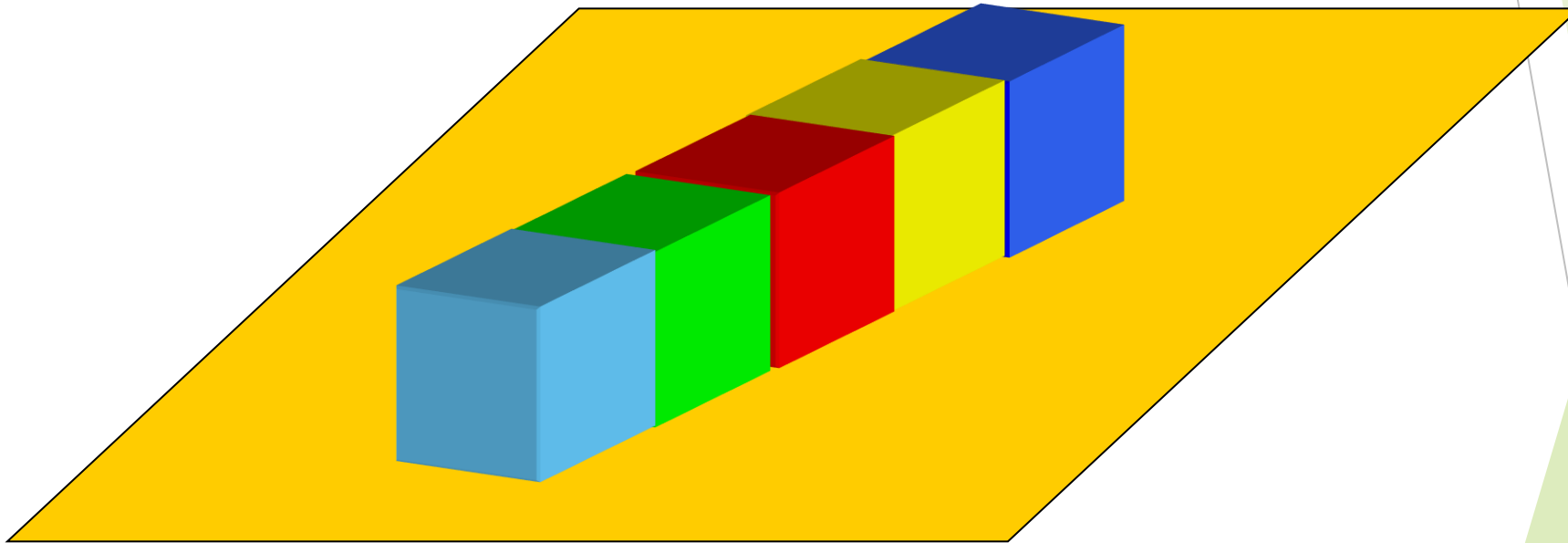
What if I now add another cube?

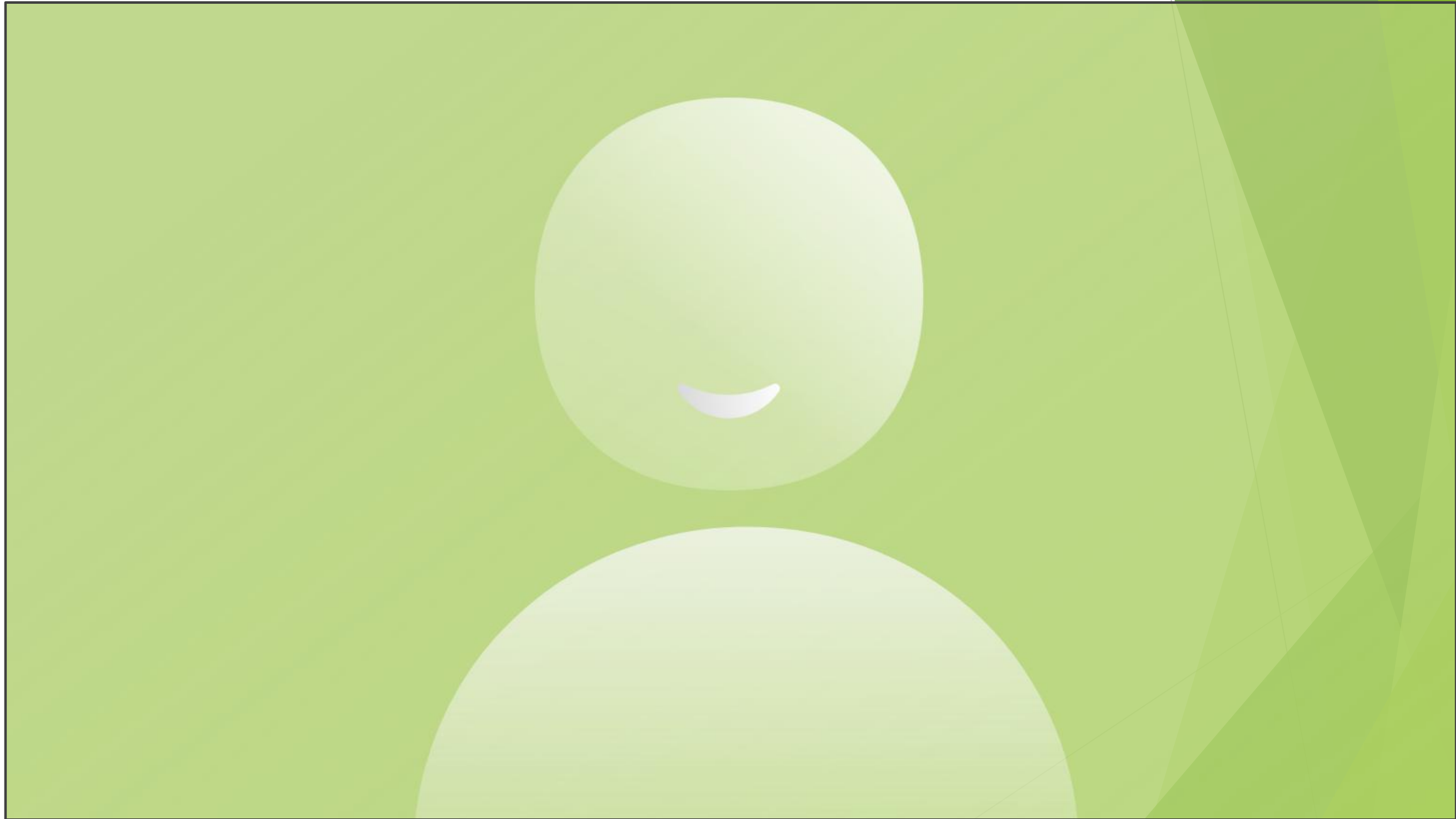


How many hidden faces are there now?

How many **extra** hidden faces are there each time I add on another cube?

Now keep adding on cubes and see if you can find a rule connecting the number of cubes and the amount of hidden faces

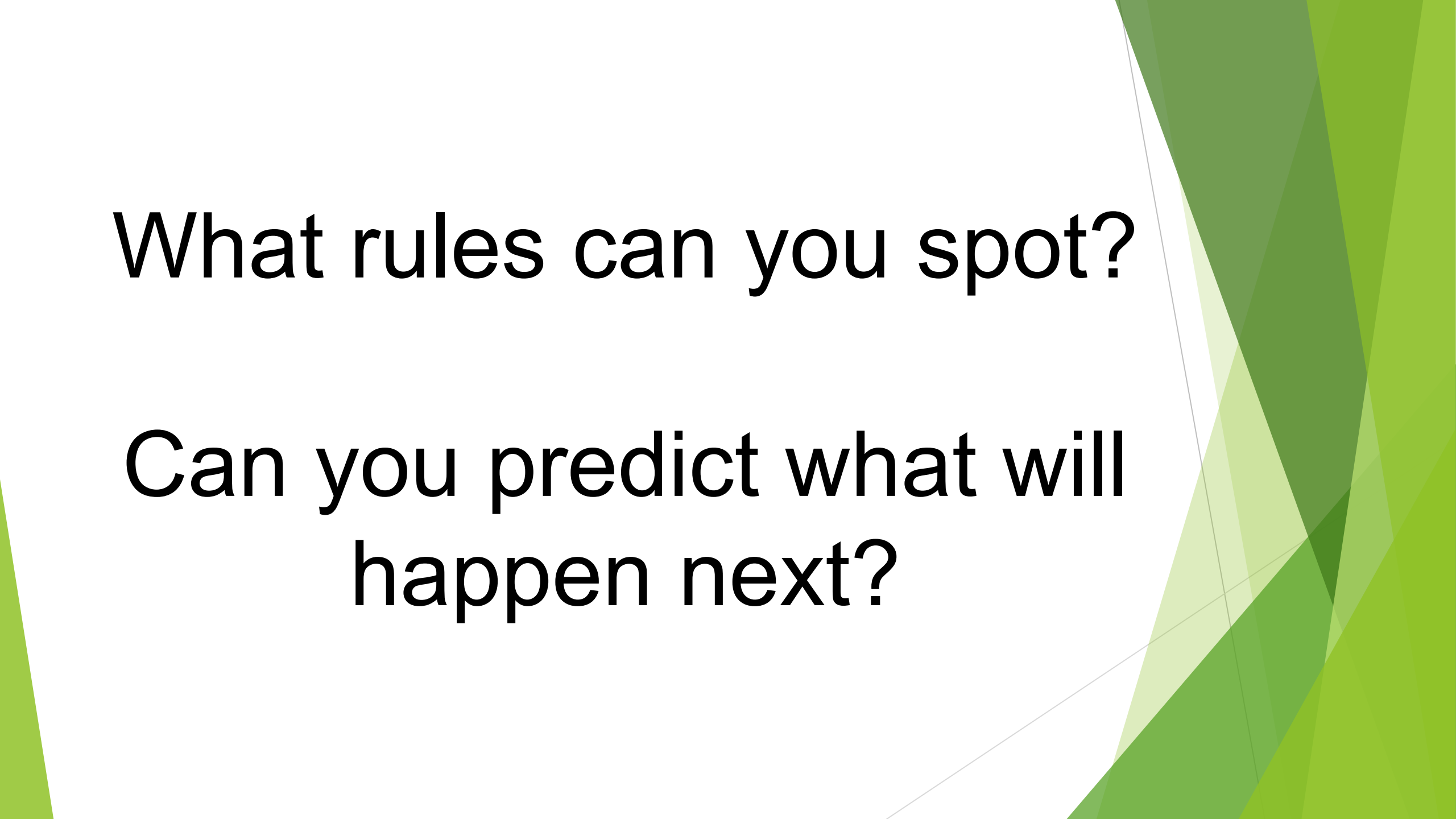




Cubes	Hidden	Seen	Total
1			
2			
3			
4			
5			

Cubes	Hidden	Seen	Total
1	1	5	6
2			
3			
4			
5			

Cubes	Hidden	Seen	Total
1	1	5	6
2	4	8	12
3	7	11	18
4			
5			

The background features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern, layered effect on the right side of the slide.

What rules can you spot?

Can you predict what will
happen next?

Cubes	Hidden	Seen	Total
1	1	5	6
2	4	8	12
3	7	11	18
4	10	14	24
5	13	17	30

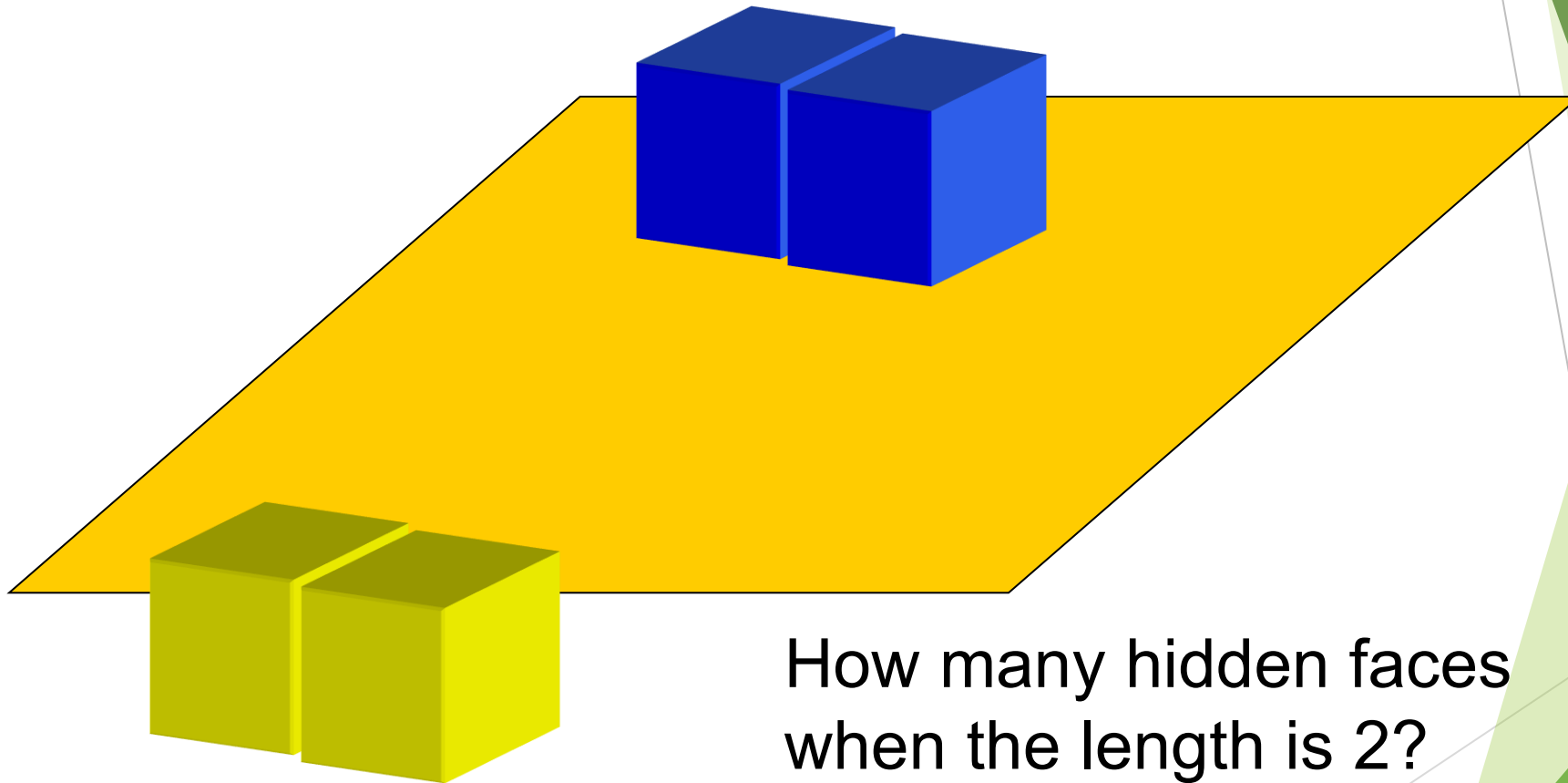
Cubes	Hidden	Seen	Total
1	1	5	6
2	4	8	12
3	7	11	18
4	10	14	24
5	13	17	30

$\times 3 - 2$

$\times 3 + 2$

$\times 6$

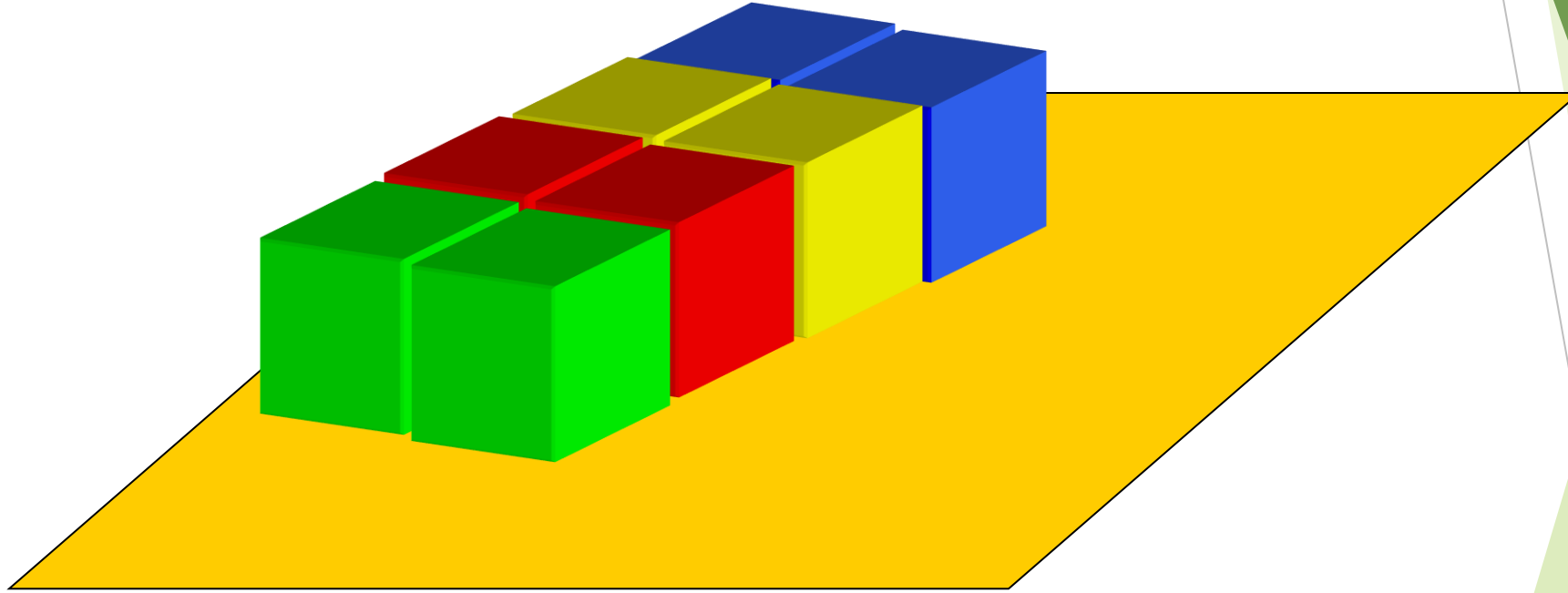
What will happen if I use 2 rows of cubes?
How many hidden faces when the length is just 1?



How many hidden faces
when the length is 2?

How many **extra** hidden faces each time I add on two
more cubes?

Now keep adding on 2 cubes and see if you can find a rule connecting the length and width and the amount of hidden faces



Bingo!!

9	27	12	5	25	13
27	21	18	6	2	15
8	3	19	26	4	17
10	20	30	11	23	16
1	24	14	29	7	22

Bingo!!

[https://www.mathsbox.org.uk/resource-detail.php?category=number&topic=Bidmas&resource=Order%20of%20operations%20\(2\)&source=secondary](https://www.mathsbox.org.uk/resource-detail.php?category=number&topic=Bidmas&resource=Order%20of%20operations%20(2)&source=secondary)