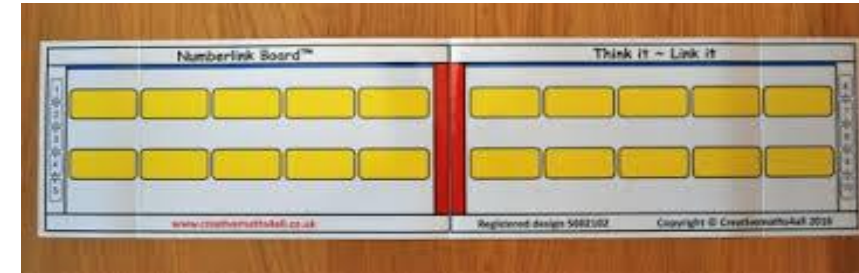# Numberlink Boards

Parent Workshop

February 2025

Aims

- Understand how a Numberlink Board works and how it can be used to support the learning of times tables.

- Understand how the Numberlink Board can support your child with their mathematical fluency e.g. noticing patterns.

Multiplication Vocabulary
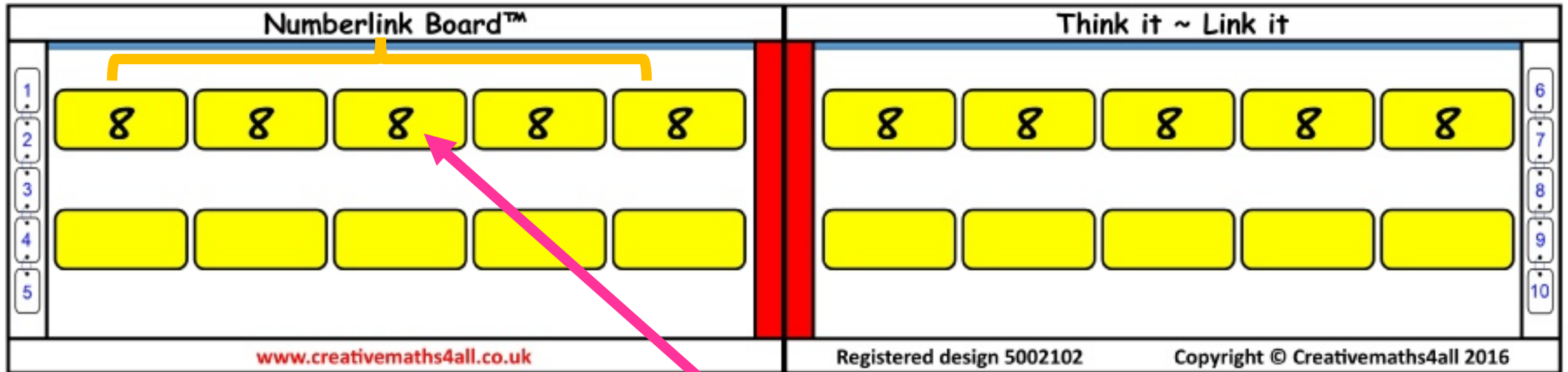
$$2 \times 3 = 6$$
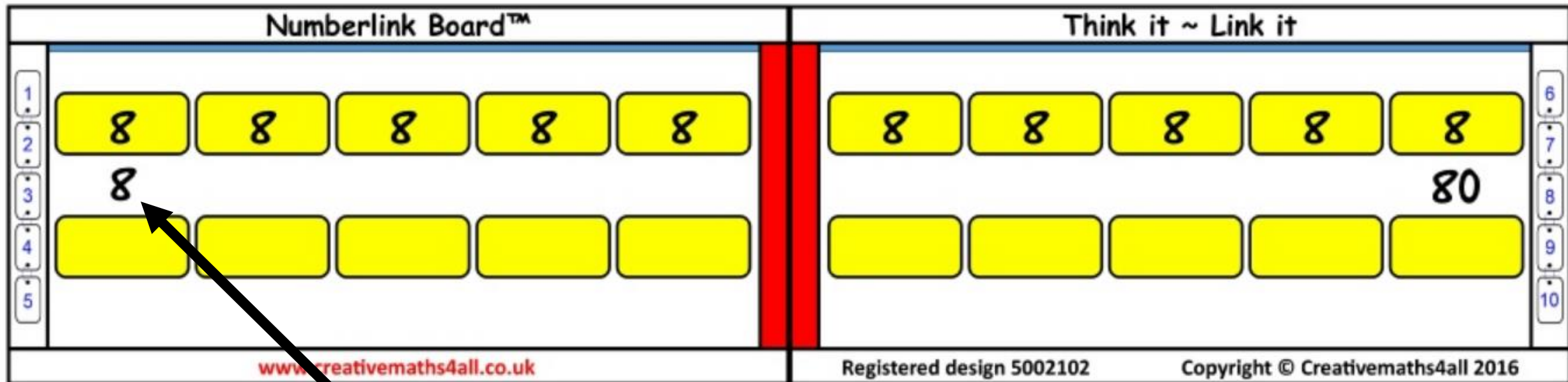
Multiplyer

Multiplicand

Product

How does a Numberlink board work?

Multiplyer

Multiplicand

How does a Numberlink board work?

Product

Write in the multiplicands

Write the multiplicands in the top row of yellow boxes. This reminds the children of this structure of multiplication as repeated addition.

Numberlink Board™

Think it ~ Link it

| 8 | 8 | 8 | 8 | 8 |

| 8 | 8 | 8 | 8 | 8 |

The multiplicand is the size of the group.

Write in the key facts

Fill in the products in the order **x1, then x10 then x 5**. The **products** should be written in the **white space** below the multiplicands. Children will then have key facts to support the connection of other multiples. This is a key feature of the Numberlink Board™.

Numberlink Board™

Think it ~ Link it

8 8 8 8 8   8 8 8 8 8

8   40   80

www.creativemaths4all.co.uk

Registered design 5002102   Copyright © Creativemaths4all 2016
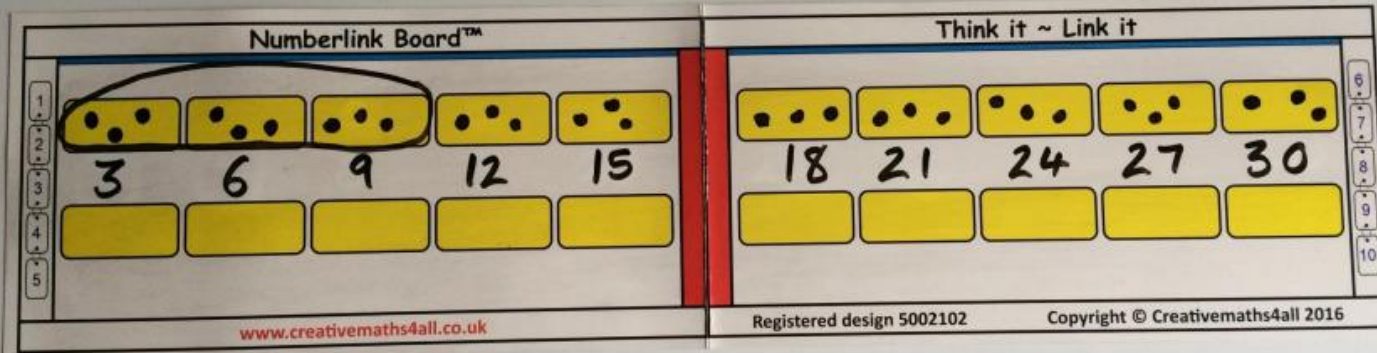
Product

1x, 10x, 5x, derive

Use the key facts to derive other facts

If 8 x 5 is 40 what is 8 x 6?

If 8 x 10 is 80 what is 8 x 9? Use what you know.

Write in the rest of the products

Numberlink Board™

8	8	8	8	8
8	16	24	32	40

8	8			
88	96			

Think it ~ Link it

8	8	8	8	8
48	56	64	72	80

If children need support working out multiples initially, they can draw dots to show the **cardinality** of the number and count the dots.

Some games!

Turn Table

- Each player chooses the times table they would like to practise. The players can choose different times table to practise if they want.

- Each player writes their multiplicands on, but none of their products.

- The first player rolls the dice. The dice shows the multiplier, eg. if you roll a 6 find 6 times the multiplicand. The first player writes that product in the correct place on their board. (For the purpose of this game, use 0 as 10.)

- The second player has a turn and writes their product on the board.

- Take it in turns to roll the dice. If a number is rolled twice, the product is rubbed off the board. If a number is rolled again, the product can be written back on.

The winner can be:

- the first person to write all the products on the board, or the person who has the most products on when the time set for the game is up.
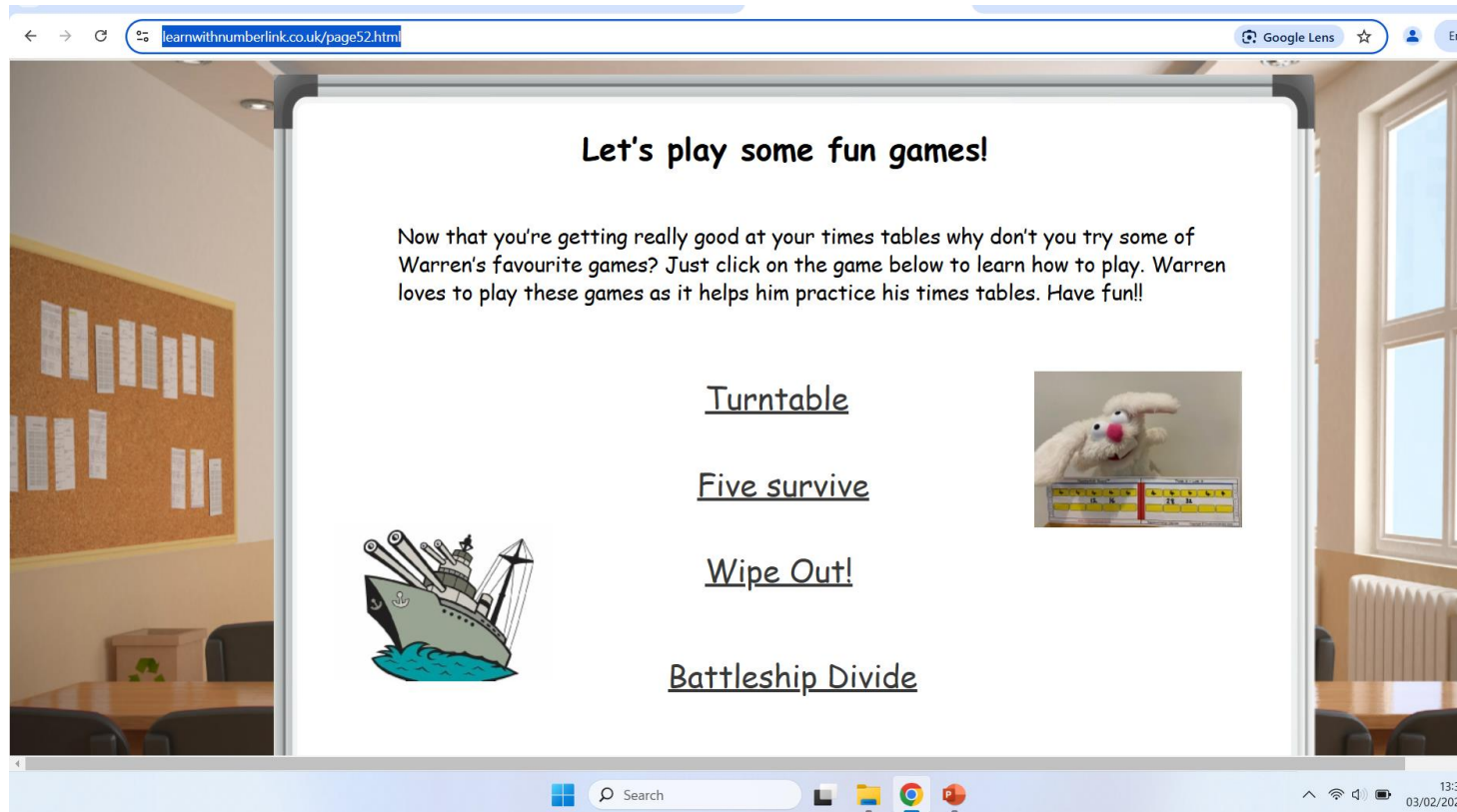
Wipeout!

- Each player decides on a multiplication table they are going to work on and writes the multiplicands in the yellow boxes (as for Turntable game).

- Each player takes it in turns to turn over a card, which acts as the multiplier, and then writes the product on their board.

- If a player turns over a picture card they can rub a product off their opponent's board!

- If their opponent's board is already empty they have to write a product **in**!

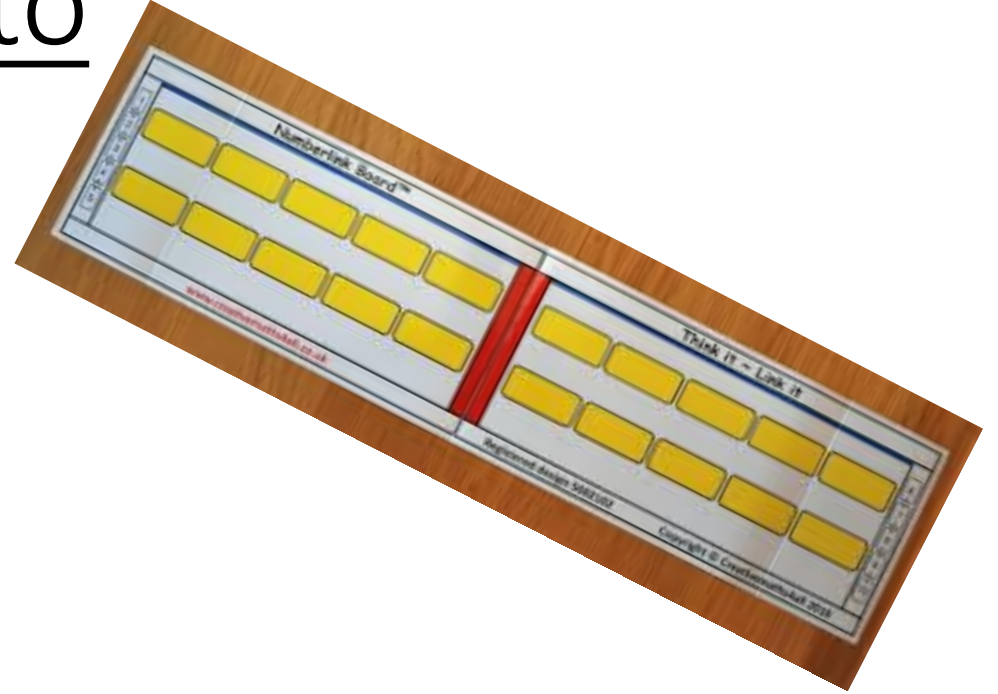- Play until all the cards are finished or the time is up.

The winner is the player with the most products on their board.

Other games

- https://learnwithnumberlink.co.uk/page52.html

Using Numberlink boards to inform mental strategies

Doubling/halving
46 x 5

Using 'Rounding and Adjusting'

4 x 79

Making connections

Spot patterns between two different times tables

	Numberlink Board™						Think it ~ Link it			
	6	**6**	**6**	**6**	**6**		**6**	**6**	**6**	**6**	**6**
	6	12	18	24	30		36	42	48	54	60
	12	**12**	**12**	**12**	**12**		**12**	**12**	**12**	**12**	**12**
	12	24	36	48	60		72	84	96	108	120

Using the Numberlink Board™ for Division

Before moving to division, explore multiples of 3 using multiplication.
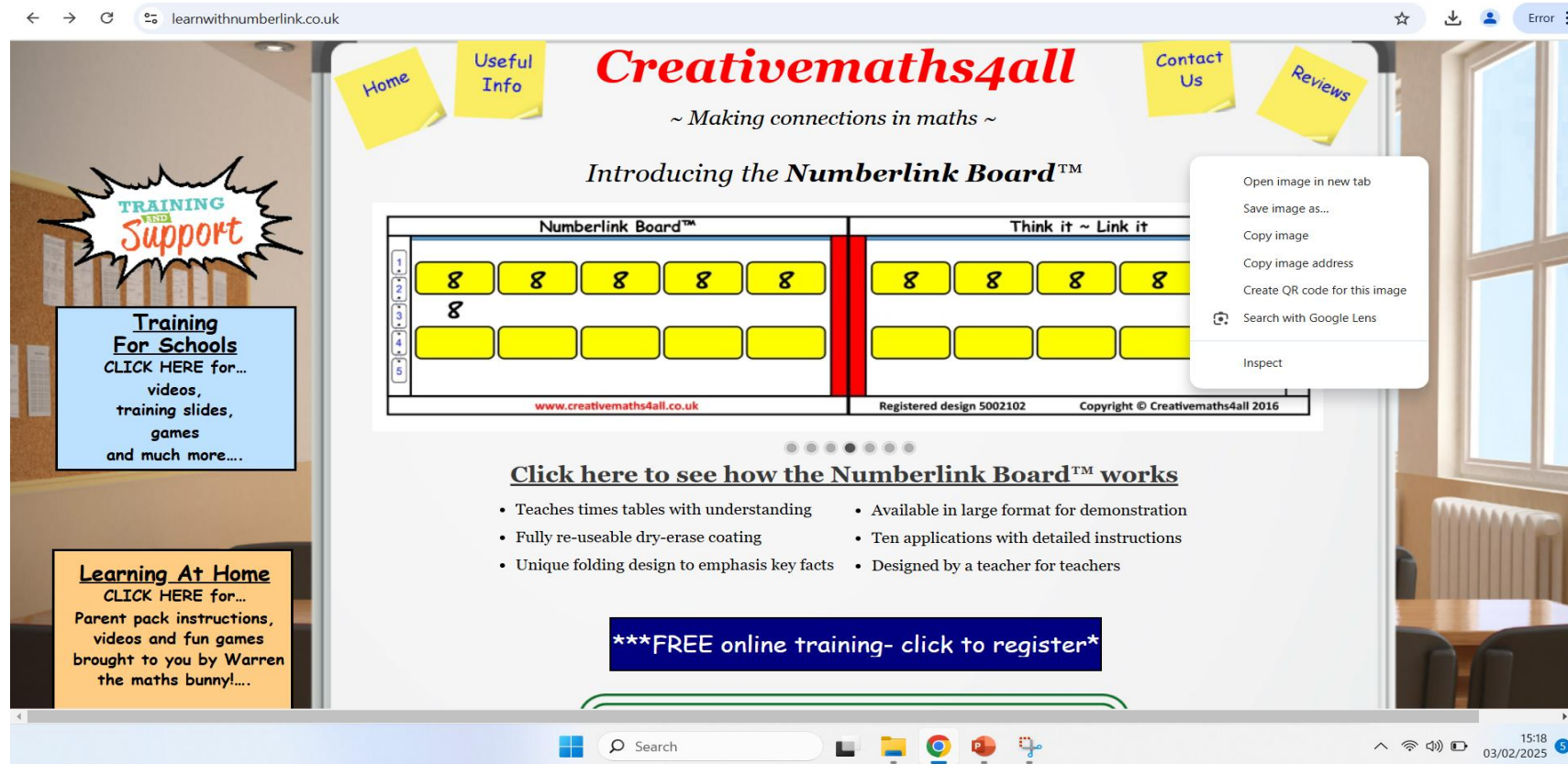
$9 = 3 \times 3$ 9 is equal to 3 groups of 3.
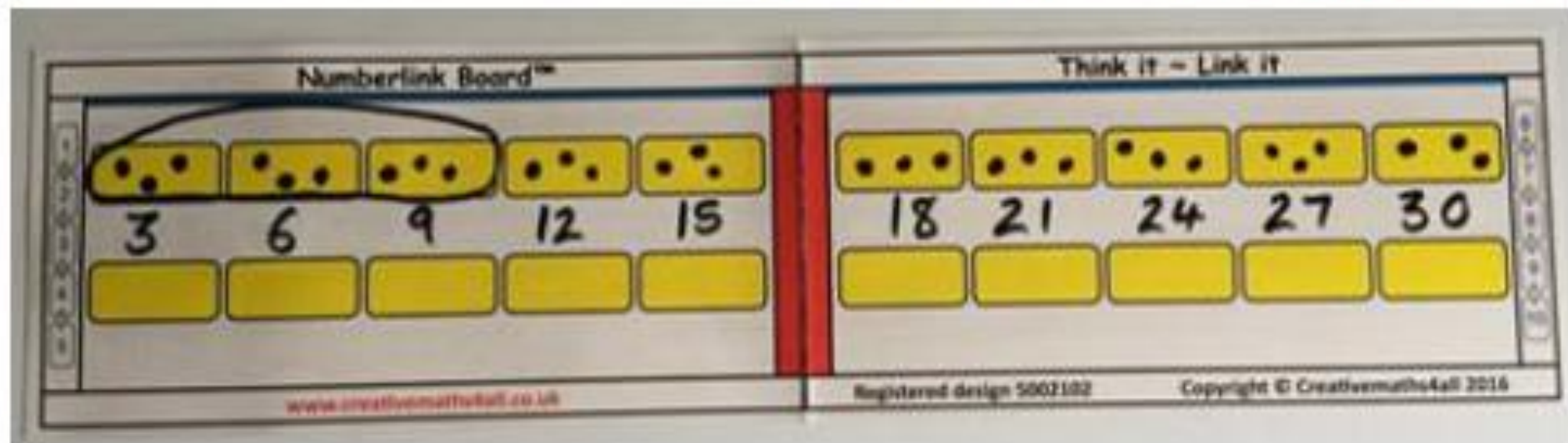
How many groups of three are there in 9? $9 \div 3 = 3$

Numberlink Board

- https://learnwithnumberlink.co.uk/

Any questions?