



14.1.21

Blue – Multiply by 8

True or False?

Multiply by 8

All rows give the same answer as 8×8

| | | | | | | | |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 8×8 | | | | | | | |
| 4×8 | | | | 4×8 | | | |
| 2×8 | | 2×8 | | 2×8 | | 2×8 | |
| 1×8 | 1×8 | 1×8 | 1×8 | 1×8 | 1×8 | 1×8 | 1×8 |

True or False?

Multiply by 8

True

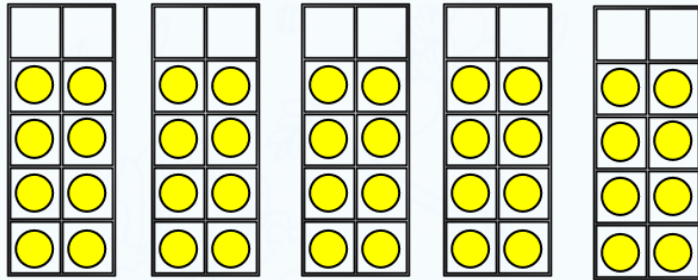
Each row is equal to 64



MULTIPLY BY 8



1) How many counters altogether?



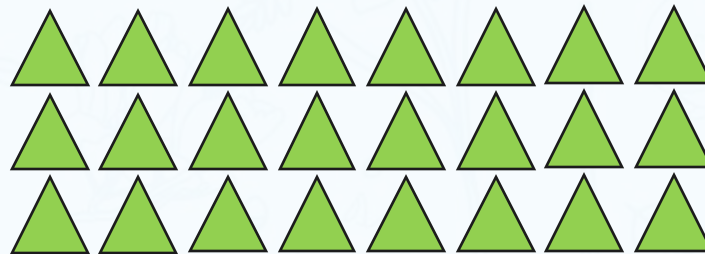
2) Complete the repeated additions

$$8 + 8 =$$

$$8 + 8 + 8 =$$

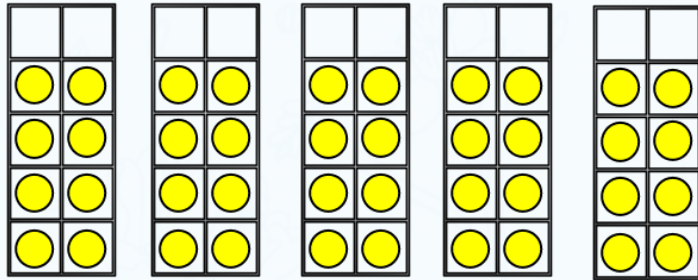
$$8 + 8 + 8 + 8 =$$

3) Here is an array.



How many groups of 8 are there?

1) How many counters altogether?



40

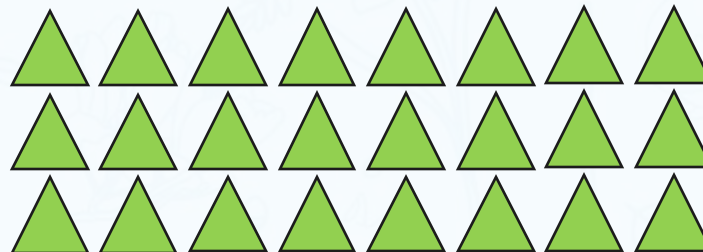
2) Complete the repeated additions

$$8 + 8 = 16$$

$$8 + 8 + 8 = 24$$

$$8 + 8 + 8 + 8 = 32$$

3) Here is an array.



How many groups of 8 are there? 3

What do you see?



There are 3 equal groups of 8

$$\boxed{8} + \boxed{8} + \boxed{8} = \boxed{24}$$

$$\boxed{3} \times \boxed{8} = \boxed{24}$$

$$\boxed{8} \times \boxed{3} = \boxed{24}$$

What do you see?

Have a think



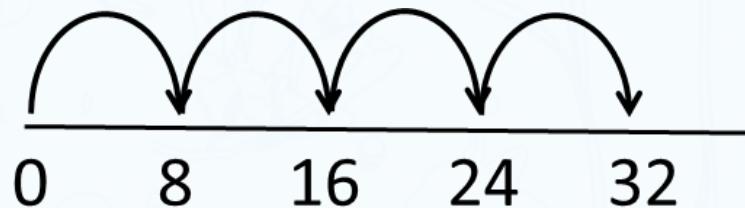
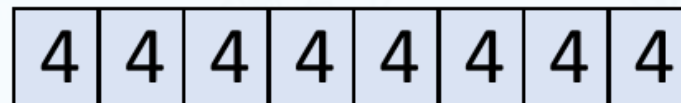
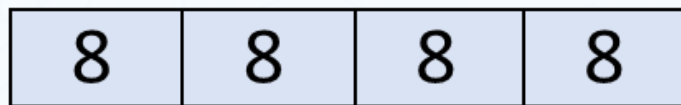
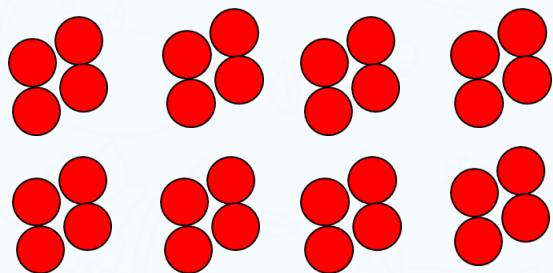
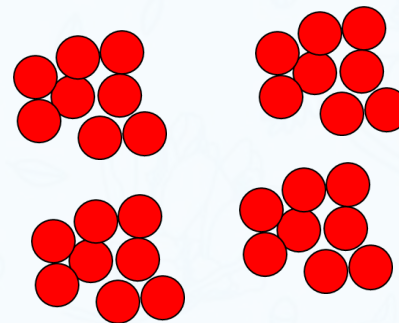
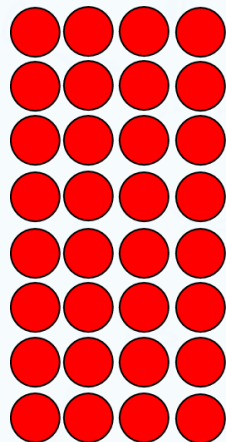
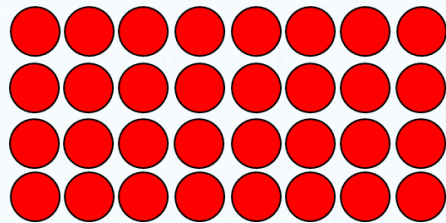
8 groups of 3 cakes

$$3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 = 24$$

$$8 \times 3 = 24$$

$$3 \times 8 = 24$$

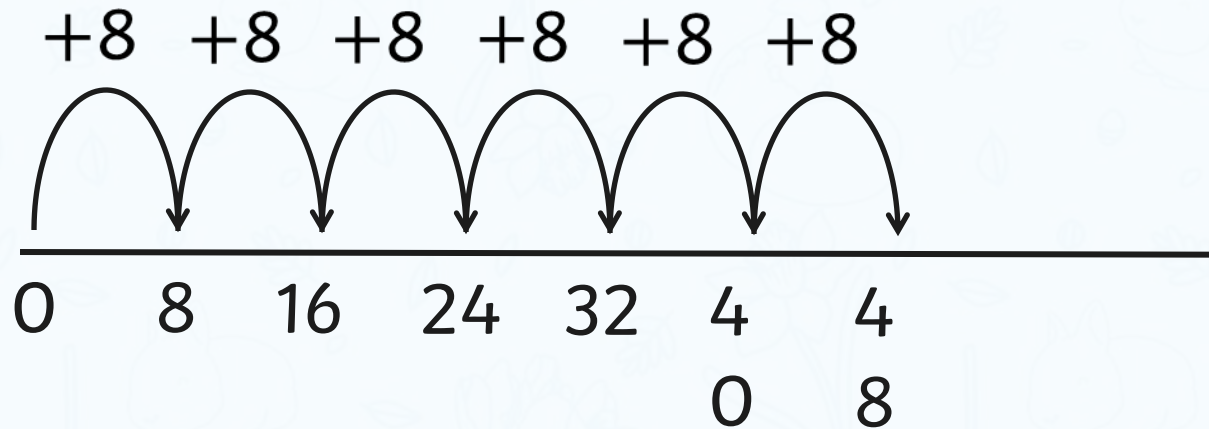
The children are finding different ways to represent 4×8



The children are exploring ways to calculate 6×8

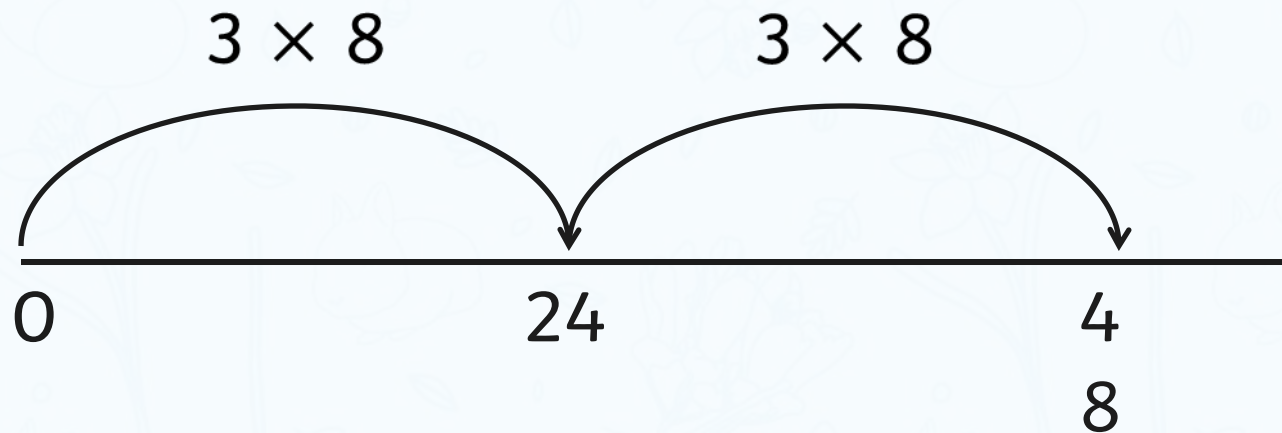
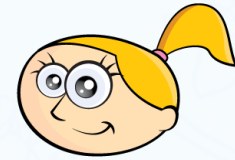


I used a number line and added 8 six times



The children are exploring ways to calculate 6×8

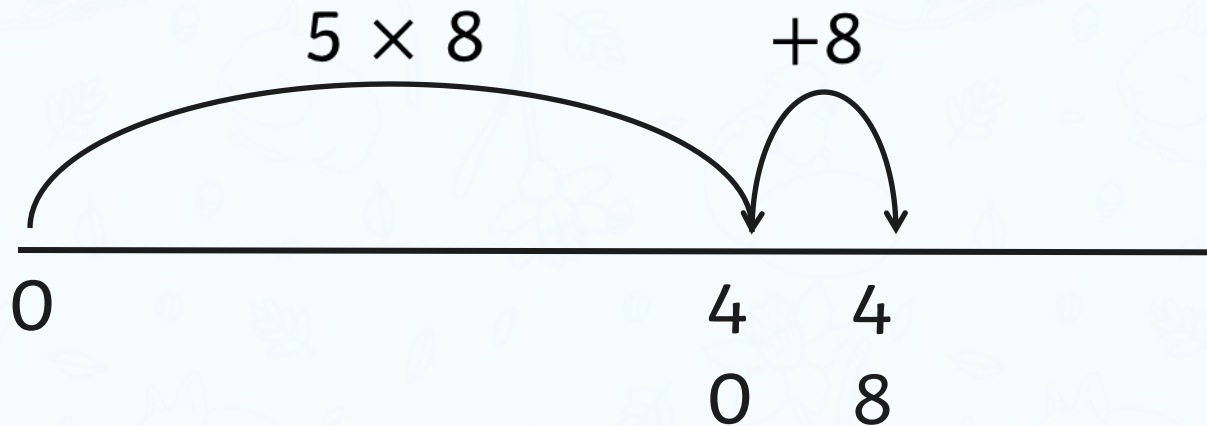
I know 6×8 is
two lots of 3×8



The children are exploring ways to calculate 6×8



I know $5 \times 8 = 40$
then I added one more 8

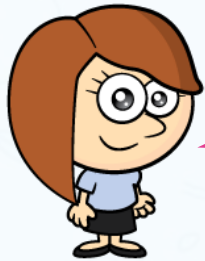
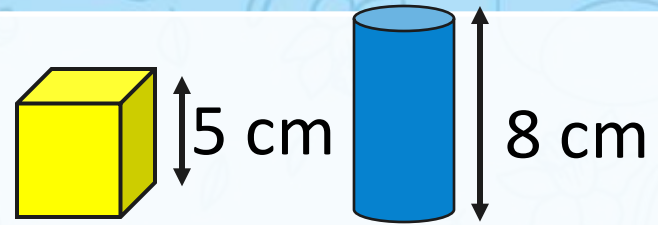


Have a think



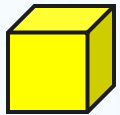
How many ways can you calculate 9×8 ?

Rosie has built a tower using cubes and cylinders.



I used 8 cubes and 6 cylinders for my tower.

How tall is Rosie's tower?



$$8 \times 5 = 40$$



$$6 \times 8 = 48$$

$$40 + 48 = 88$$

The tower is 88 cm tall.

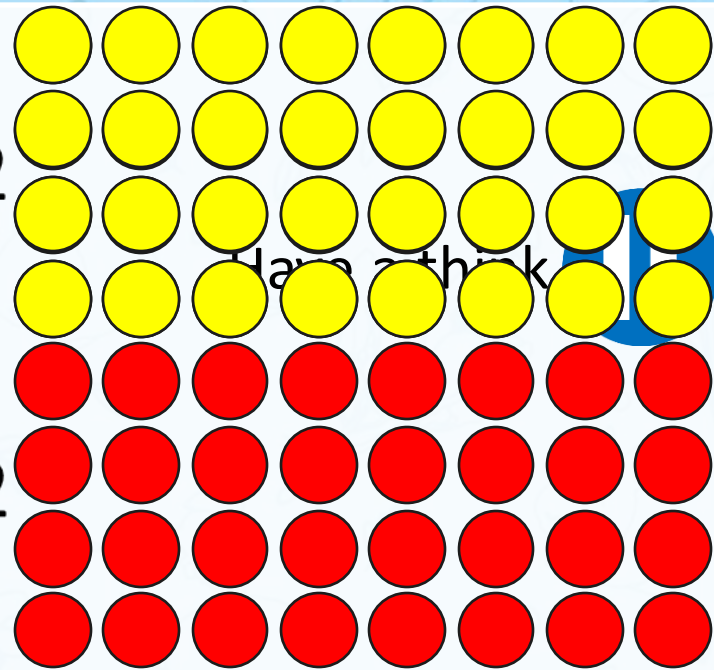
Have a think



$$8 \times 8 = 64$$

$$4 \times 8 = 32$$

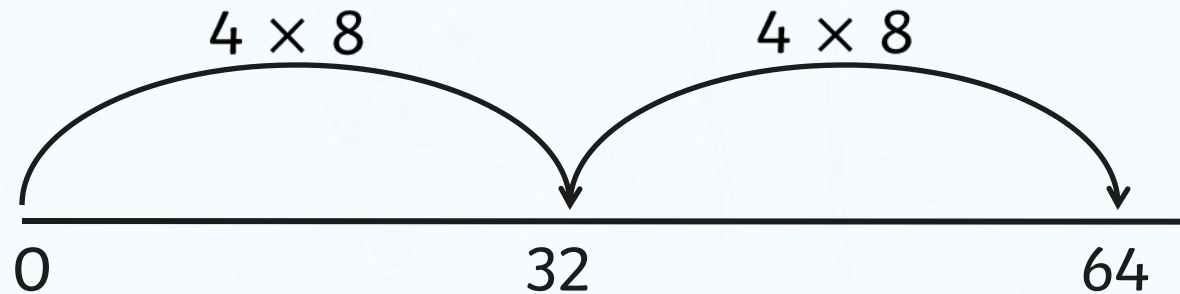
$$4 \times 8 = 32$$



$$4 \times 8 \times 2 = 64$$



8×8 is the same
as $4 \times 8 \times 2$



Now complete your work sheet.

Now play Hit the Button game Times Tables x8.

<https://www.topmarks.co.uk/maths-games/hit-the-button>

