

Numeracy lesson.

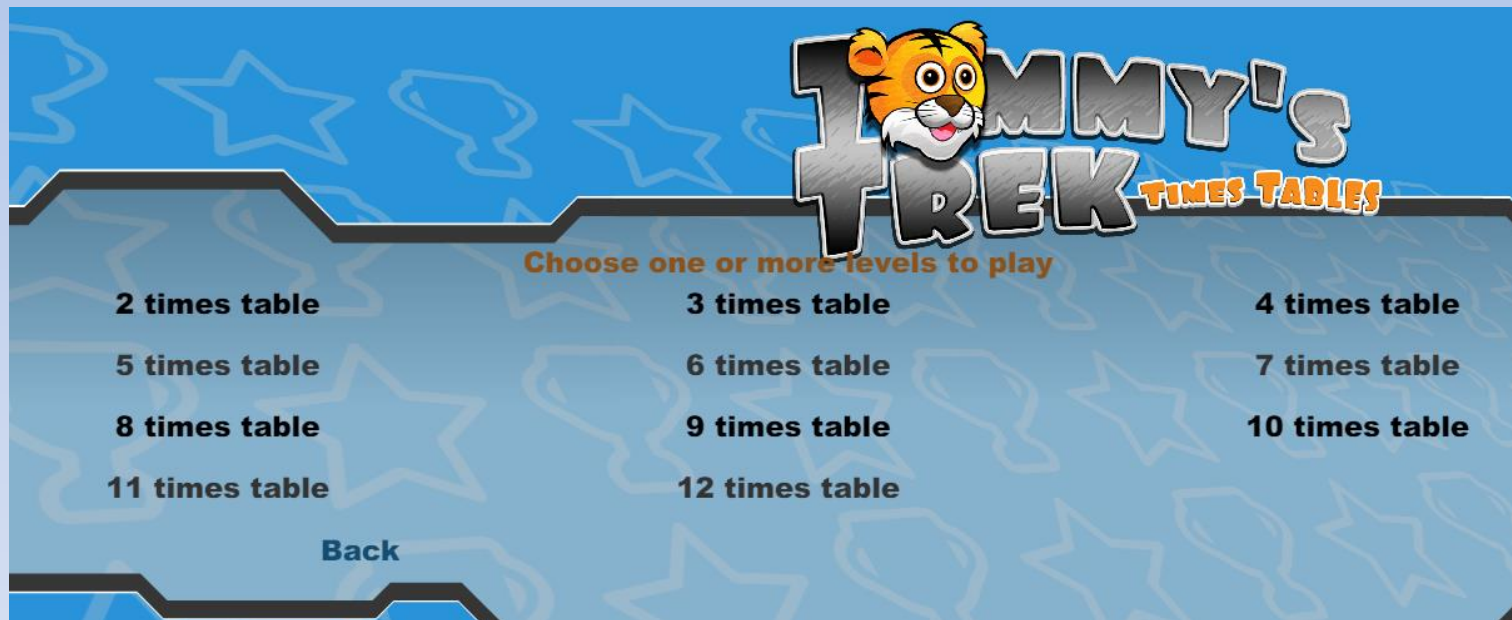
Thursday 23<sup>rd</sup> April

# Mental Maths

*Recommended time 15 mins*

Practise your times tables using this fun game!

<https://mathsframe.co.uk/en/resources/resource/318/Tommys-Trek-Times-Tables>



Remember by the end of P3 you need to know off-by-heart your 2,3,4,5 and 10 times table!

# L.I. To understand that multiplication and division are opposite

## Steps to success

- I know what multiplication means.
- I know what division means.
- I understand how multiplication and division are linked.
- I can draw a corresponding array.
- I can work out the number family for that array.



# All these words mean multiply!

## Multiplication

multiply  
times  
groups of  
lots of  
repeated addition  
product  
multiplied by  
array



multiply  
times  
groups of  
lots of  
repeated addition  
product

# All these words mean divide!

## Division

divided by  
share  
divisible by  
share equally  
divide  
group  
divide into

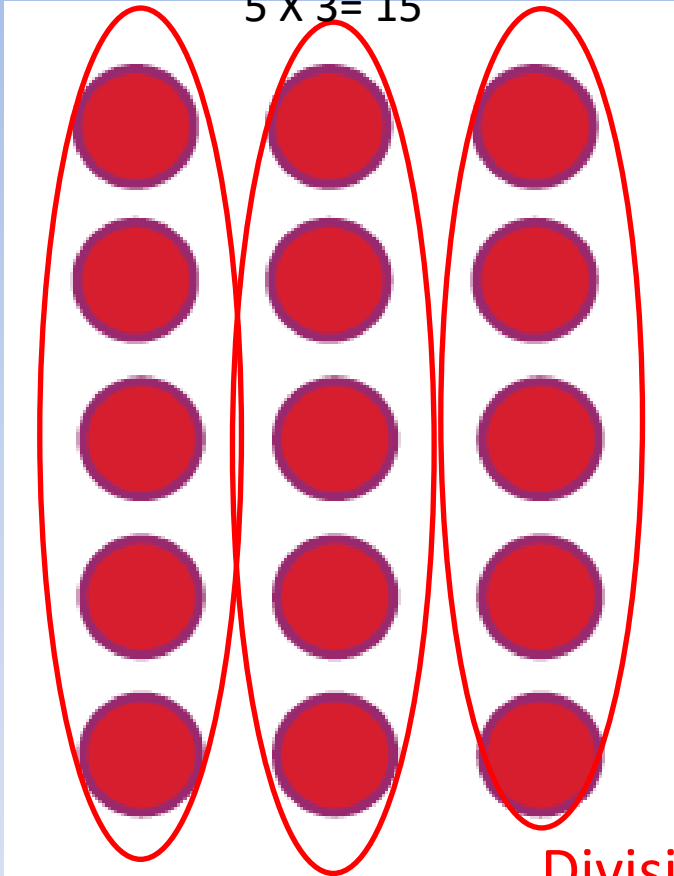
divided by  
share  
divisible by  
share equally  
divide

Today you will be learning how multiplication and division are linked and are the opposite of each other (the inverse).

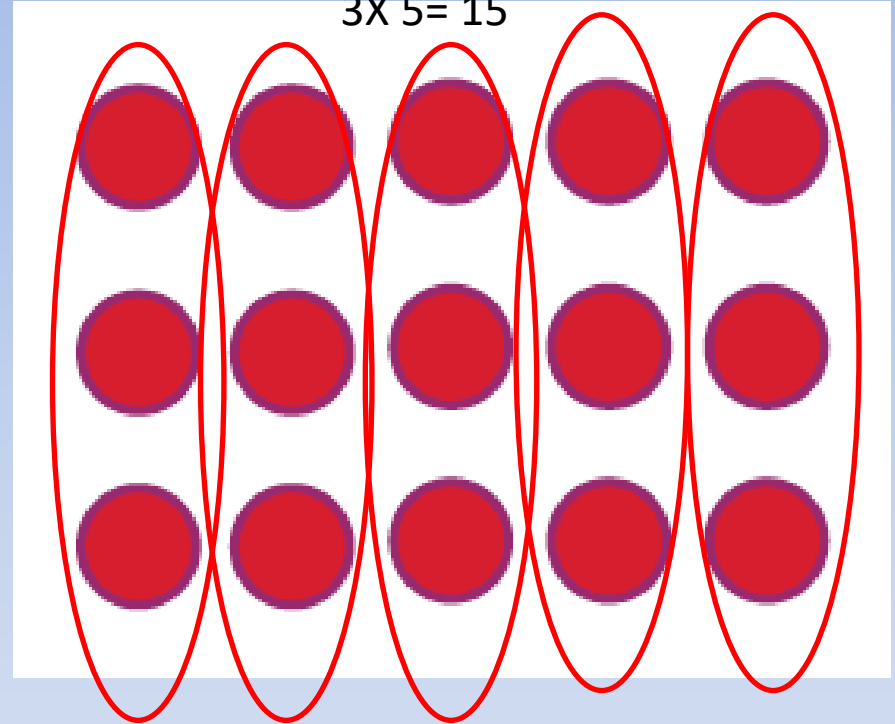
We can see from this array the following...

Multiplication is **making groups**

3 groups of 5  
 $5 \times 3 = 15$



5 groups of 3  
 $3 \times 5 = 15$

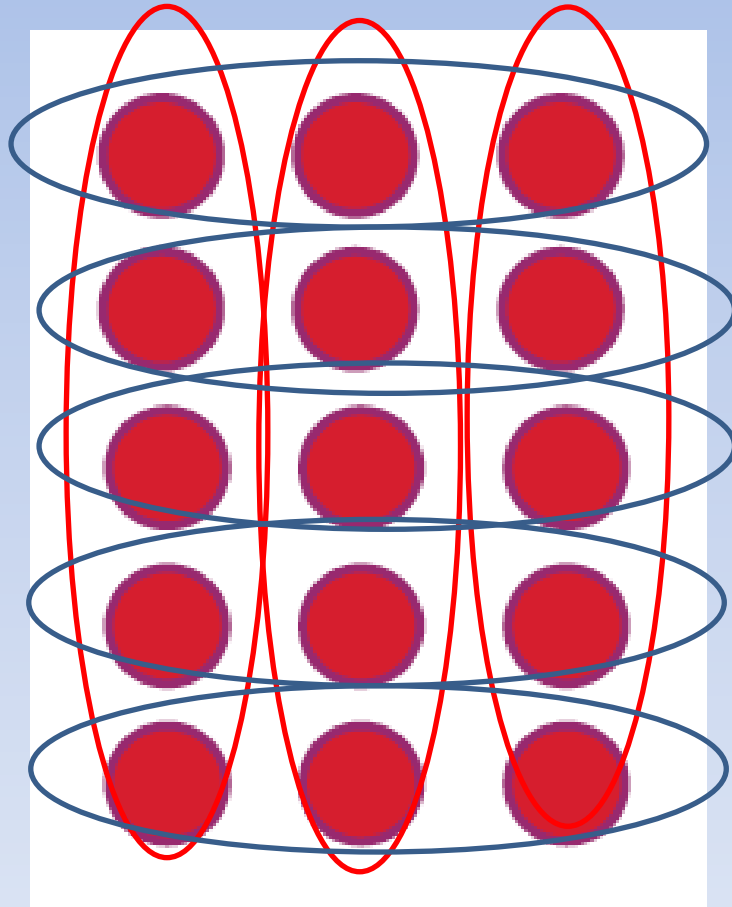


Division is **sharing into groups**

15 shared into 3 groups  
 $15 \div 3 = 5$

15 shared into 5 groups  
 $15 \div 3 = 5$

# A number family



So, from this one array we can see that...

$$5 \times 3 = 15$$

$$3 \times 5 = 15$$

$$15 \div 3 = 5$$

$$15 \div 5 = 3$$

Have you noticed that all the calculations have a 3, 5 and 15 in them? We have made a number family!

That is because multiplication and division are linked to each other—they are the OPPOSITE (inverse).



## Your turn!

Now I will give you the numbers within a number family.

You will draw the corresponding array and work out the two multiplication and division facts for it.

Mild



1. 2, 5, 10
2. 10, 3, 30
3. 4, 2, 8
4. 2, 6, 12
5. 10, 7, 70
6. 5, 3, 15
7. 5, 4, 20
8. 2, 16, 8

Spicy



1. 14, 2, 7
2. 5, 35, 7
3. 4, 6, 24
4. 6, 4, 24
5. 9, 2, 18
6. 8, 3, ?
7. 5, 8, ?
8. 4, 7, ?

Hot



Make up your own arrays and corresponding number families using the 4, 6 and 7 times table.

Let's reflect on our learning:

Do you/ can you now...

...know what multiplication means?

...know what division means?

...understand how multiplication and  
division are linked?

...draw a corresponding array.

...work out the number family  
for that array/

Not achieved the learning intention- I've answered 'no' to all of the above.  
Go through the slides again.

Partly achieved the learning intention- I've answered 'yes' to some of the above  
Goo job! We'll keep practising.

Achieved the learning intention- I've answered 'yes' to all of the above.  
Well done!

