

Maths Home Learning

Week beginning 7th June 2021

This week...

Day 1 – Multiplication and
Division

Day 2 – Number sequences

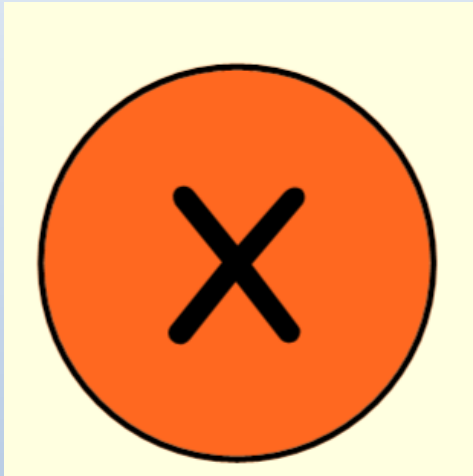
Day 3 – Place value

Day 4 – Mixed operations

Day 5 – Word problems

Day 1
Multiplication and
Division

What do these signs mean?



Multiplication



Division

What can we use to help us solve multiplication and division problems?

Let's Say Hooray for ARRAYS!

M

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Make an array with:
3 rows
4 columns

Make an array with:
4 rows
2 columns

Make an array with:
2 rows
3 columns

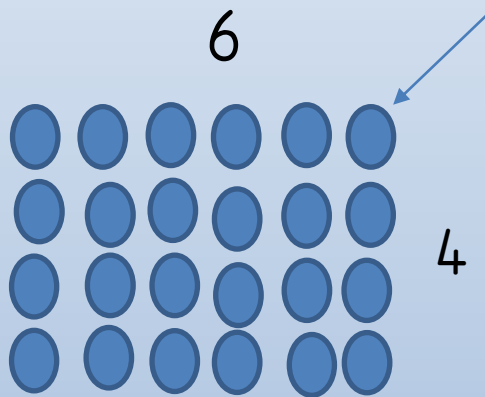
Make an array with:
5 rows
3 columns

Things to remember

- When we multiply, our number gets bigger.
- When we divide, our number gets smaller.
- When multiplying we go across the hall and down the stairs (remember to count the corner), then count them all.
- When dividing we go across using the smallest number and then continue counting underneath until you reach the value of your biggest number, then circle the groups.

Lets have a look.

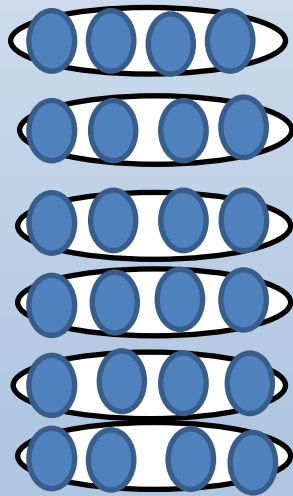
$$\begin{array}{c} \rightarrow \\ 6 \end{array} \times \begin{array}{c} \downarrow \\ 4 \end{array} = 24$$



Remember to
count.

Division

$$24 \div 4 = 6$$

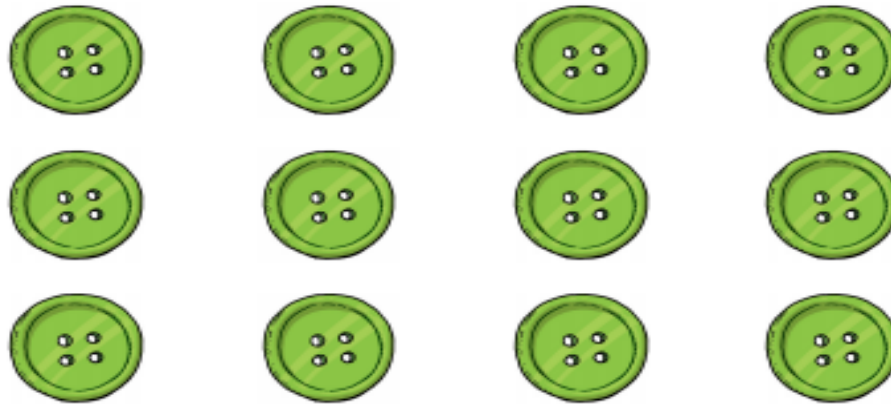


6 groups of 4

Have a go at completing this.

Arrays

Look at the array of 12 buttons below. Complete the missing numbers in the calculations using this array to help you.



$$4 \times \square = 12$$

$$3 \times \square = 12$$

$$12 \div 4 = \square$$

$$12 \div 3 = \square$$

An array is an arrangement of objects.



Home learning books

On fire:

$$9 \times 6 =$$

$$36 \div 6 =$$

$$8 \times 7 =$$

$$48 \div 8 =$$

$$12 \times 5 =$$

$$26 \div 13 =$$

Home learning books

Hotter:

$4 \times 5 =$

$24 \div 6 =$

$7 \times 4 =$

$28 \div 4 =$

$6 \times 3 =$

$28 \div 7 =$

Home learning books

Hot:

$$3 \times 3 =$$

$$12 \div 4 =$$

$$2 \times 6 =$$

$$18 \div 6 =$$

$$4 \times 5 =$$

$$24 \div 6 =$$

Day 2

Number sequences

MOS

Yusuf has 22 sweets. He buys 34 more. How many sweets does he have altogether?

Amir has 64 toy cars. He gives 21 to his brother. How many does he have left?

Well done!

The answers are:

1. Yusuf has 56 sweets altogether.
2. Amir has 43 toy cars left.

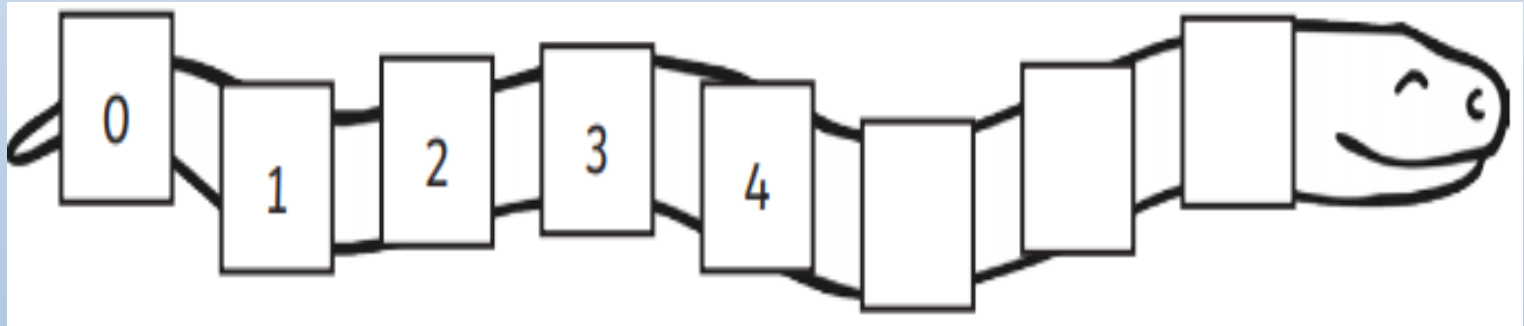
What is a number sequence?

- A number sequence is a list of numbers that are linked by a rule.
- You need to work out the rule so you can work out the next numbers in the sequence.

Look at the examples on the next few slides.

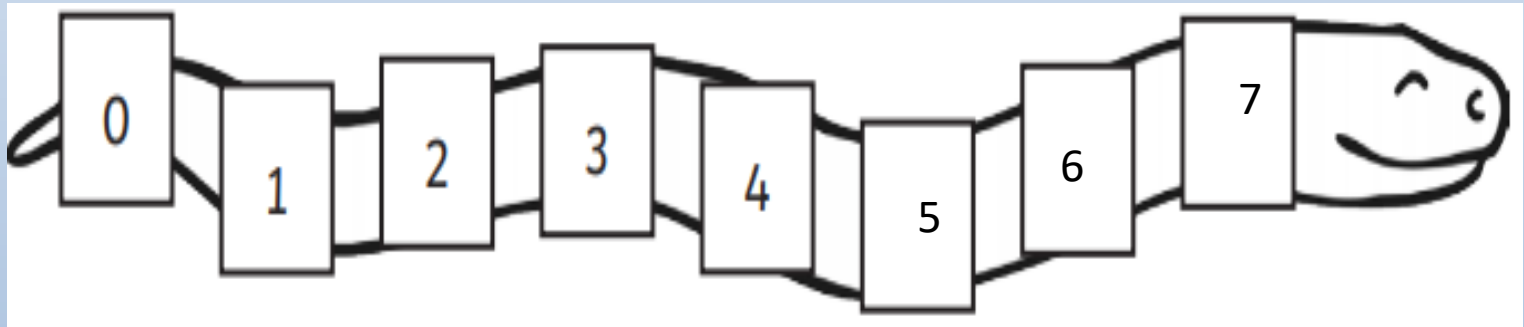
What do you notice about these numbers?

Can you find the missing numbers



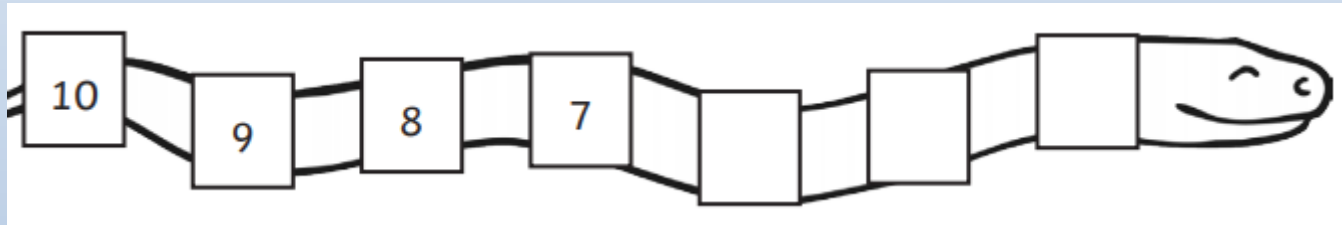
Well done!

The numbers are increasing by 1 each time.

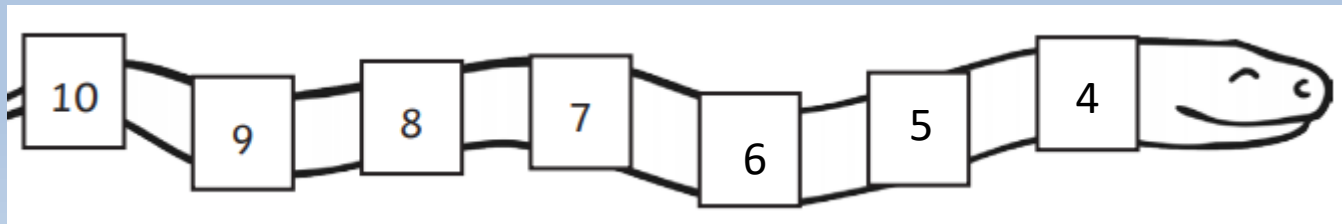


What do you notice about this number sequence?

The numbers are decreasing by 1 each time.

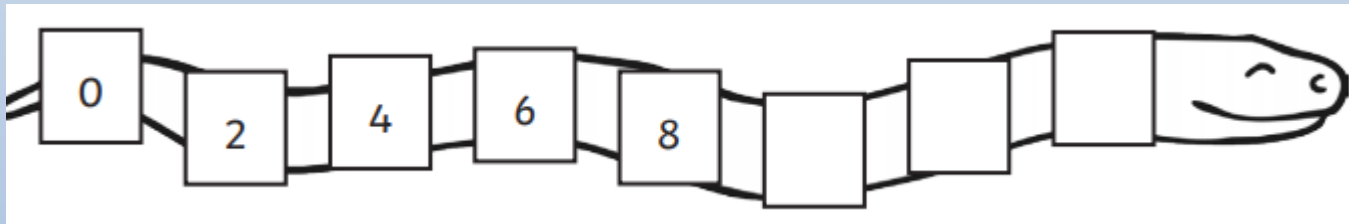


The missing numbers are...



This one is different. We must use our times table knowledge to solve this.

This number sequence is increasing by 2 each time. We can use our 2x tables knowledge to find the missing numbers.



Have a try and then move the snake to find the missing numbers.

Home learning books.

Complete the following number sequences.

On fire:

13	17	21	25			37	41
91	90		88	87			84
80	70	60		50	40		20
102	104		108	110	112		
18	22	26		32		36	

Home learning books.

Complete the following number sequences.

Hotter:

11	12			15			18
19	18		16	15			12
29		31		33	34	35	
55	56		58			61	62
6	8		12	14		18	20

Home learning books.

Complete the following number sequences.

Hot:

1	2		4			7	8
9	10		12	13			16
2	4	6		10			16
19		21	22	23	24		
10	9	8				4	3

Challenge time!

Can you make 2 of your own number sequences with missing numbers and explain the rule.

Day 3
Place value

Mental and Oral Starter

Put these numbers in order starting with the smallest.

26 72 22 14 89 63 5

Put these numbers in order starting with the largest.

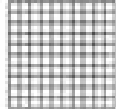


106

175

164

What is place value?

Place value is the value of each digit in a number.

Hundreds 	Tens 	Ones 



This shows that
3 is 3 tens = 30

This shows 4
ones = 4

Right click on your mouse and
open link.



How many tens and ones are in
this number?

T	O
6	3

How many tens and ones are in
this number?

T	O
6	3

6 tens = 60

3 ones = 3

You try this one.

71

- Draw your place value grid
- Explain which is tens and ones and their value, for example - 3 tens = 30 and 5 ones = 5

Well done!

T	O
7	1

7 tens = 70

1 one = 1

Try this one.

14

Well done!

T	O
1	4

1 ten = 10

4 ones = 4

This number has hundreds in it.

H	T	O
1	2	3

1 hundred = 100

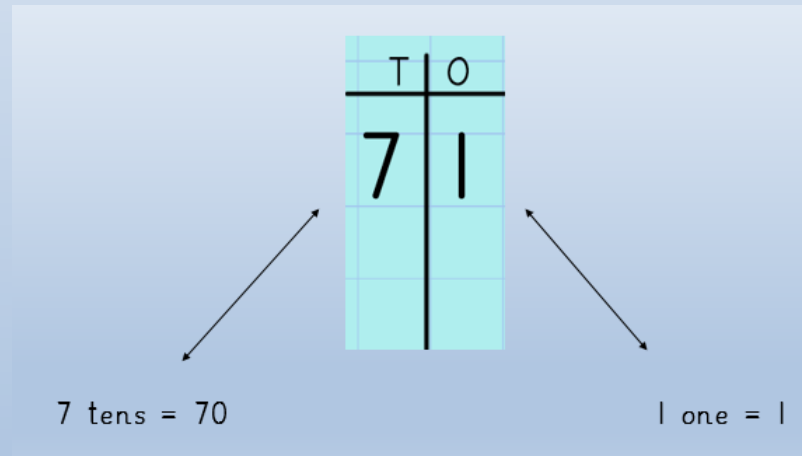
2 tens = 20

3 ones = 3

Home learning books.

Task 1: Draw your place value grids and explain how many tens and ones there are in these numbers.

1)	4	5
2)	3	9
3)	1	2
4)	6	7



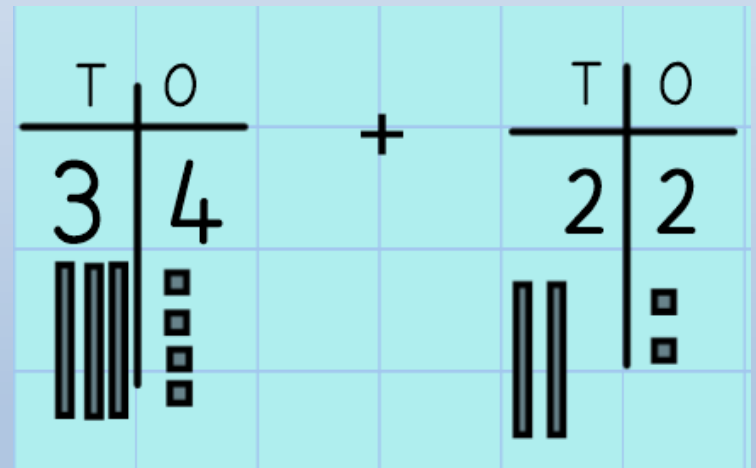
How did you do?

1. 4 tens = 40 and 5 ones = 5
2. 3 tens = 30 and 9 ones = 9
3. 1 ten = 10 and 2 ones = 2
4. 6 tens = 60 and 7 ones = 7

Task 2

Find the answers to these number sentences. Use your place value knowledge and draw your base 10. Write your number sentence first and then do your calculation

Example



Count your tens first and then the ones.

- | | | | | | | |
|----|---|---|---|---|---|---|
| 1) | 1 | 7 | + | 2 | 2 | = |
| 2) | 4 | 3 | + | 1 | 1 | = |
| 3) | 6 | 1 | + | 2 | 5 | = |
| 4) | 7 | 2 | + | 1 | 5 | = |

How did you do?

1. $17 + 22 = 39$

2. $43 + 11 = 54$

3. $61 + 25 = 86$

4. $72 + 15 = 87$

Further challenge.

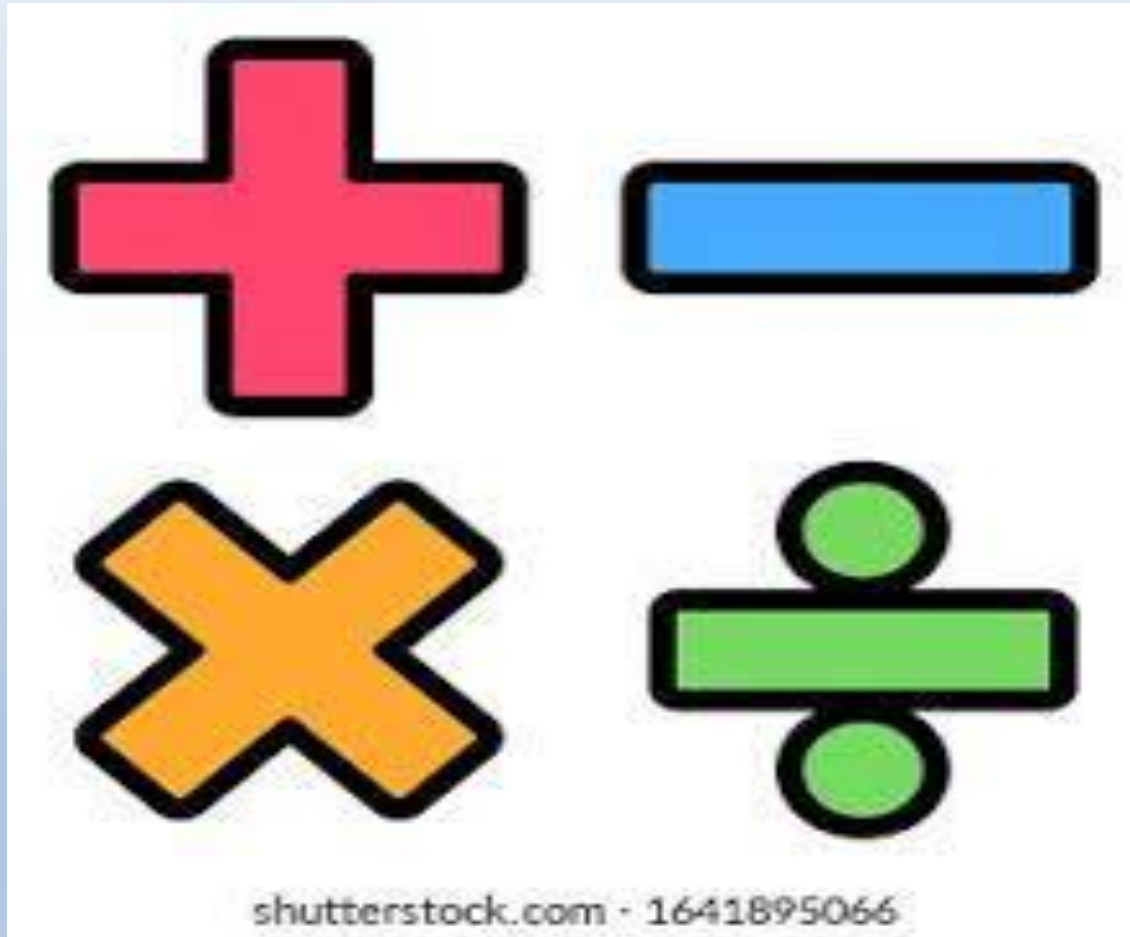
Find the answer to this number sentence.

$$121 + 115 =$$

Day 4

Mixed operations

What do these signs mean?



They mean...



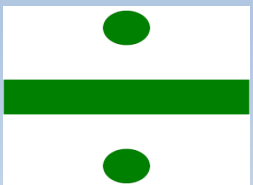
Addition - adding two numbers together.



Subtraction - take away one number from another.



Multiplication - multiplying one number by another.



Division - dividing a number by another into equal parts.

How can we add and subtract?

- Mental methods - put number in your head and count on for addition or back for subtraction.
- Drawing base 10

How can we multiply and divide?

- Mental methods - when dividing use your times table knowledge to count on your fingers. Then count how many fingers you are holding up.

Example: $15 \div 5 = 3$

count in 5s until you get to 15 you will be holding 3 fingers up.

- Drawing arrays

Adding drawing base 10

T	O					T	O	
3		4		+	2		2	
		●●●●					●●	

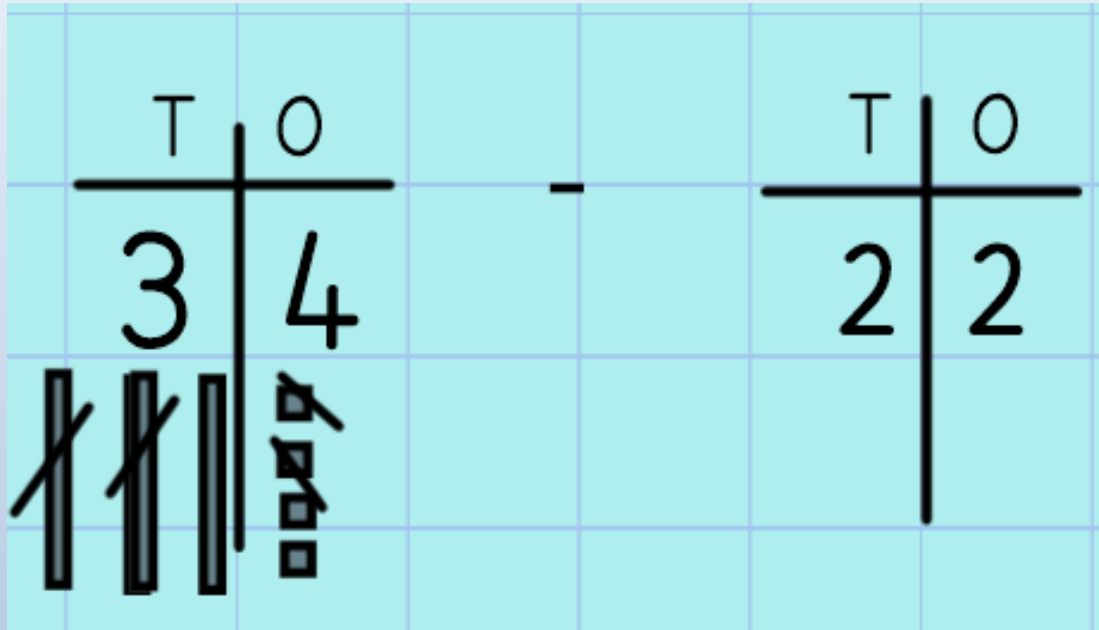
Remember to add 10s first using your 10 x table knowledge. 10,20,30,40,50, then add ones 51,52,53,54,55,56

Adding drawing base 10

T	O					T	O	
3		4		+	2		2	
		●●●●					●●	

Remember to add 10s first using your 10 x table knowledge. 10,20,30,40,50, then add ones 51,52,53,54,55,56

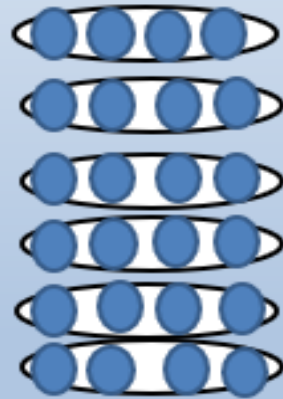
Subtracting using base 10



Remember not to draw base on the second side.

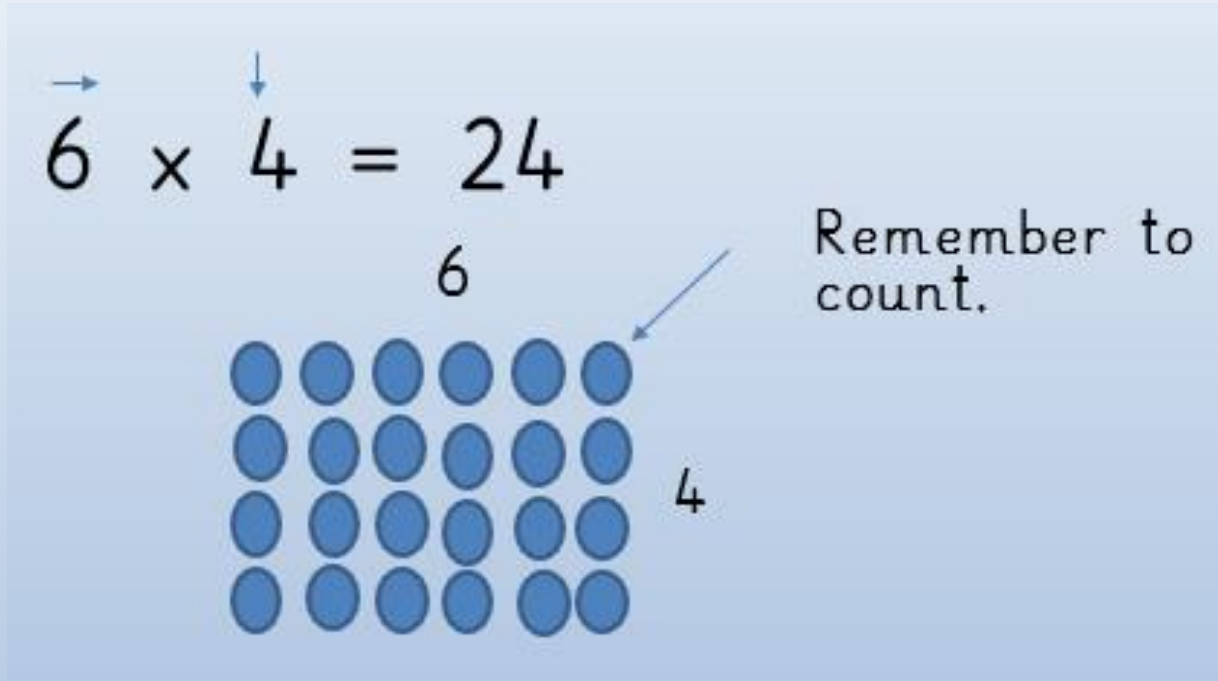
Dividing using arrays.

$$24 \div 4 = 6$$



6 groups of 4

Multiplication using arrays.



Remember to go across the corridor first and then down the steps.

Home learning books.

Find the answers to these number sentences using methods learnt.

On fire:

$$55 \div 5 =$$

$$6 \times 7 =$$

$$28 + 21 =$$

$$27 \div 3 =$$

$$11 \times 3 =$$

$$56 + 33 =$$

$$32 - 11 =$$

$$28 - 19 =$$

Home learning books.

Find the answers to these number sentences using methods learnt.

Hotter:

$$35 \div 5 =$$

$$18 \div 3 =$$

$$28 - 11 =$$

$$17 - 15 =$$

$$6 \times 3 =$$

$$5 \times 10 =$$

$$23 + 21 =$$

$$36 + 13 =$$

Home learning books.

Find the answers to these number sentences using both methods learnt.

Hot:

$$15 \div 5 =$$

$$30 \div 10 =$$

$$3 \times 3 =$$

$$6 \times 2 =$$

$$15 + 11 =$$

$$19 + 10 =$$

$$18 - 11 =$$

$$13 - 7 =$$

Day 5
Word problems

Mental and Oral Starter

What is the value of the blue digit in each number?

84

35

71

20

69

364

175

Word problems

Today we are going to be looking at mixed operation word problems.

I do

Ivy has **5** horses on her farm. She has **30** apples to **share** between them. How many apples does each horse get?

Share tells me it is a division problem.

My smallest number will go second.

My biggest number will go first in my number sentence.

My number sentence is $30 \div 5 = 6$

To solve this I can use arrays or mental methods. I know my 5x tables so I will count in 5s until I get to 30 and then count my fingers.

We do

There are **16** children in the dining room.
10 children go outside to play. How many
children are **left** in the dining room?

My smallest
number goes
second

Left tells me it's a
subtraction number
sentence.

My biggest
number must go
first.

My number sentence is $16 - 10 = 6$

I can use base 10 or mental
methods to solve this

You do

In a maths test, Hayley scored **13** and Jordan scored **15**. Can you add their scores together?

How did you do?

In a maths test, Hayley scored **13** and Jordan scored **15**. Can you **add** their scores together?

Number sentence: $15 + 13 = 28$

Home learning books.

Complete these word problems.

Write your number sentence first and then use base 10 or arrays to find the answers.

1. There are 10 tropical fish in each fish tank. The Kendall family have 4 fish tanks. How many tropical fish do they have altogether?
2. In the PE cupboard, there are 25 tennis balls. Miss Collins gives out the tennis balls to 5 groups. How many balls do each group get?
3. Annie had 17 dolls. She got another 5 for Christmas. How many dolls does she have now?
4. Year 2 have 26 red apples. They eat 8. How many red apples do they have left?

How did you do?

1. $4 \times 10 = 40$

2. $25 \div 5 = 5$

3. $17 + 5 = 22$

4. $26 - 8 = 18$