October 2021

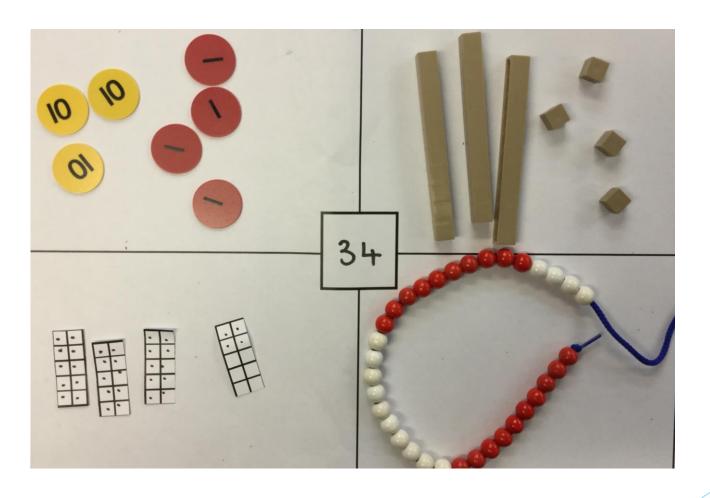
What have Year 2 been learning in maths this half term?

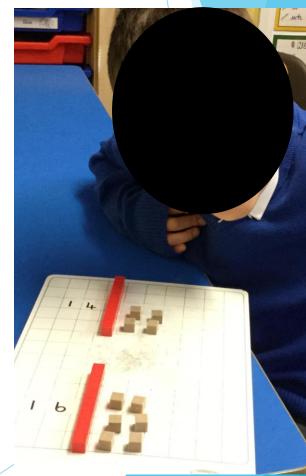




PLACE VALUE

We've been using different equipment to represent the tens and ones in a 2-digit number.





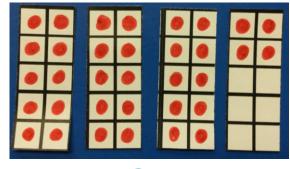
Here's some of the equipment we use...



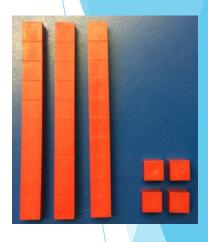
Arrow Cards



Flip Charts



Tens Frames



Dienes Blocks
(Base 10)



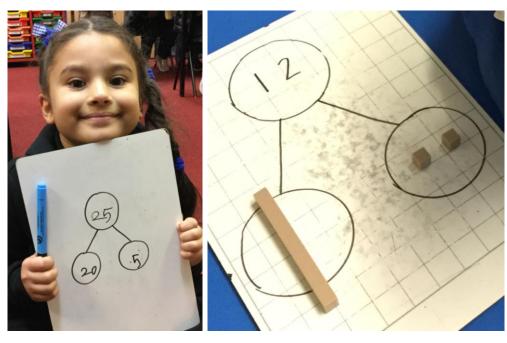
10s and 1s Counters

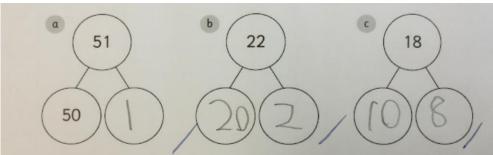


Bead Strings

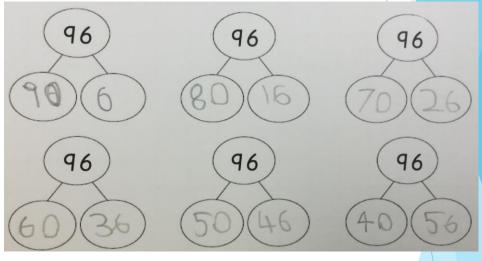
PART-WHOLE MODELS

We can split 2-digit numbers into 10s and 1s:

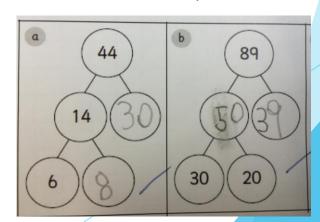




We can split the same number in different ways:



We can even do extended part-whole models:



Top Tip!

Just move over a 10s each time.



NUMBER BONDS

It's really important we know these off by-heart as they help with so much of our maths.

We should know our bonds to 10, 20 and 100.

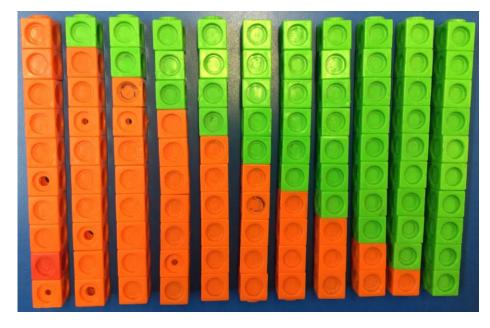
0 + 10

$$2 + 8$$

$$3 + 7$$

$$4 + 6$$

$$5 + 5$$



Number

Top Tip!

Our bonds to 10 help with bonds to 100.

If 3 + 7 = 10, then 30 + 70 = 100



$$|0+20 = 20 \quad 20+0 = 20|$$

$$1+19 = 20$$
 $19+1 = 20$

$$3+17 = 20$$
 $17+3 = 20$

$$5+15 = 20$$
 $15+5 = 20$

$$7+13 = 20$$
 $13+7 = 20$

$$8+12 = 20$$
 $12+8 = 20$

$$9+11 = 20$$
 $11+9 = 20$

$$10+10 = 20$$



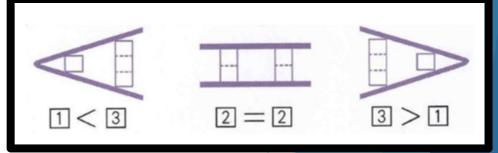
Here's a game you could play at home:

www.ictgames.com/saveTheWhale/index.html

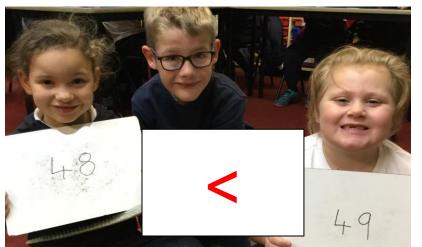


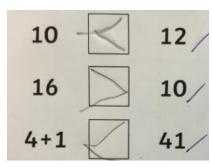
INEQUALITIES

We've learnt to use the more than and less than signs.

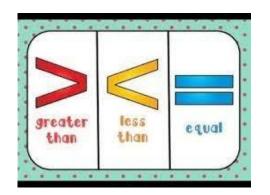


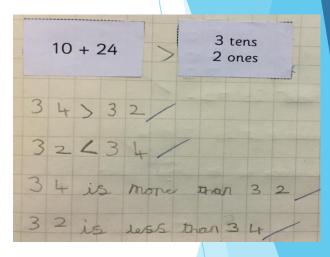




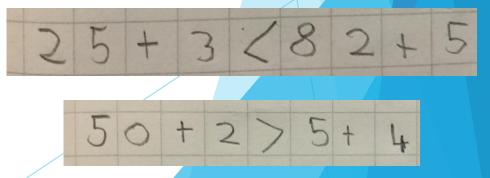


38	20
88	91
7+7	14

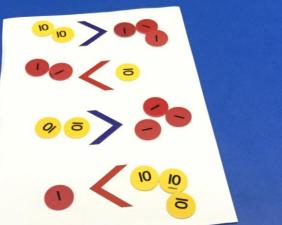


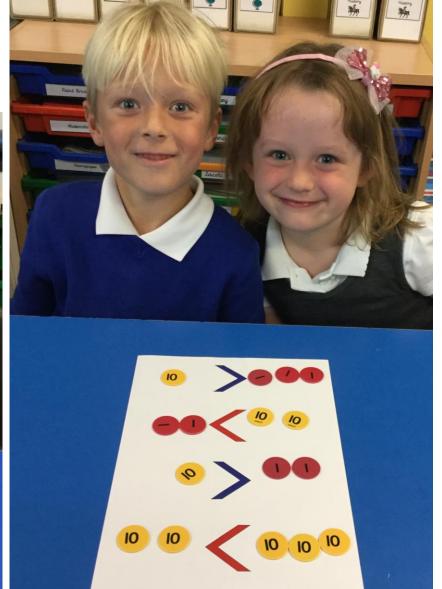


We also learnt to write a number sentence to go on each side of the more than or less than signs:











COUNTING

We've been practicing:

- Counting up to and over 100.
 - Backwards from 30.
- In multiples (jumps) of 2s, 5s and 10s.



If we're confident counting forwards and backwards in 2s, 5s and 10s, then we can start learning to count in 3s and 4s.



	1	2	2 3	4	5	6	7	8	9	10
	11	12	13	14	15	16	17	18	19	20
	21	22	2 2 3	24	-	-		-	29	
	31			34		-				
	41			44			-			
	51			54			,			
	61			64						
	71			74						
8	31			84						
C	71			94					99	100

TIMES TABLES

We need to learn our 2, 5 and 10 times tables off by-heart. We'll start with learning our 2s.



1 x 2 =

 $2 \times 2 =$

 $3 \times 2 =$

https://ictgames.com/funkyMummy/index.html



$$7 \times 2 =$$

 $5 \times 2 =$

$$6 \times 2 =$$



$$8 \times 2 =$$





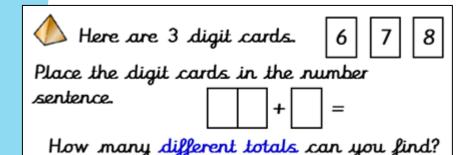
Playing times table bingo is a fun way to practise.

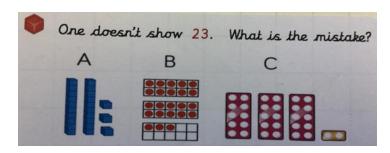
$$11 \times 2 =$$

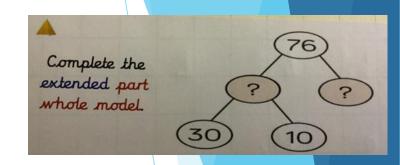
$$12 \times 2 =$$

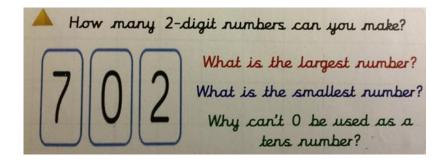
REASONING & PROBLEM SOLVING

We've been learning to explain our thinking clearly.





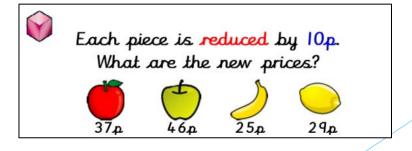


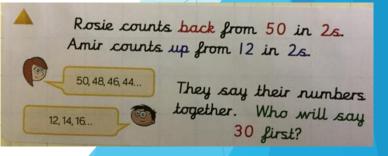




Tom says "I know 60 more than 32 is 92 because I only have to change the tens digit."

Ls he right?





ADDING & SUBTRACTING

We've been practicing putting the bigger number in our heads, then the smaller number on our fingers before counting on or counting backwards...

16 + 7 =



16

17, 18, 19, 20, 21, 22, 23



FACT FAMILIES

We've been finding the addition and subtraction number sentences we can make with 3 numbers.

$$5 - 3 = 2$$

$$5 - 2 = 3$$

$$2 + 3 = 5$$

$$5-2=3$$
 $3+2=5$

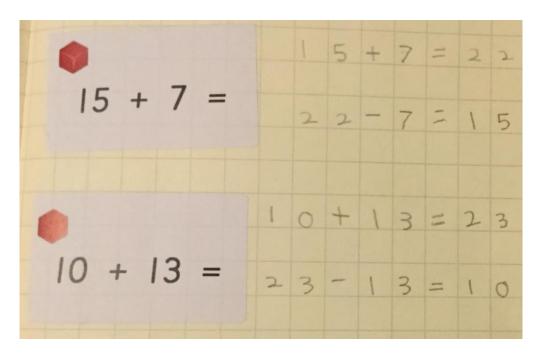


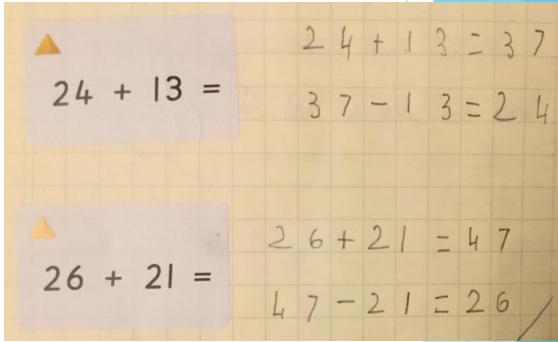
We also learnt the answer can be put at the start of the number sentence:

$$5 = 3 + 2$$
 etc

INVERSE

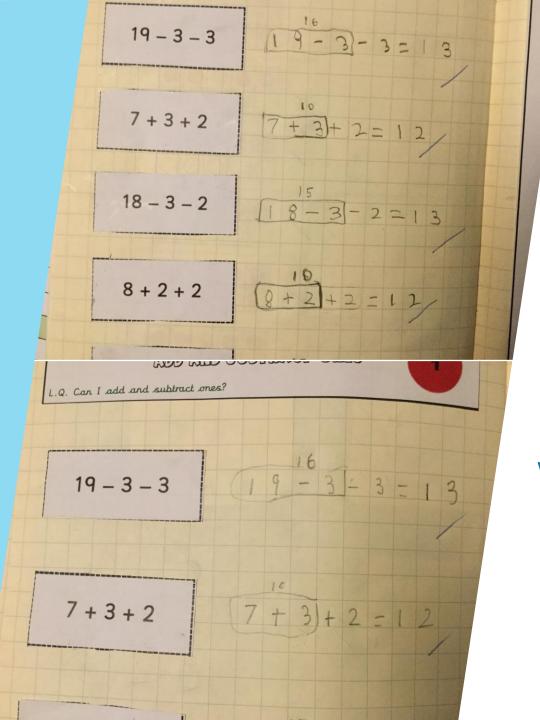
We've learnt that addition is the inverse (opposite) of subtraction.





We can use the inverse to check the answers to our calculations:

If 15 + 4 = 19, then 19 - 4 should equal 15



ADDING & SUBTRACTING 3 NUMBERS

We circle the first two numbers and do that first, then complete the remaining operation.

10 MORE, 10 LESS

We've been practicing finding 10 more or 10 less than any 2-digit number.

1		T		_		172.00		500		S. Take	
	1	2	3	4	5	6	7	8	9	10	a) Colour 10 more than 17 red.
1	11	12	13	14	15	16	17	18	19	20	
-	21	22	23	24	25	26	27	28	29	30	b) Colour 10 less than 45 blue.
-	31	32	33	34	35	36	37	38	39	40	c) Colour 10 more than 63 green.
L	41	42	43	44	45	46	47	48	49	50	
L	51	52	53	54	55	56	57	58	59	60	d) Colour 10 less than 84 orange.
	61	62	63	64	65	66	67	68	69	70	e) Colour 10 more than 71 pink.
	71	72	73	74	75	76	77	78	79	80	
-	31	82	83	84	85	86	87	88	89	90	f) Colour 10 less than 98 purple.
C	11	92	93	94	95	96	97	98	99	100	g) Colour 10 more than 49 yellow.
		-				100000					

We should be able to start on a 2-digit number and count forwards or backwards in 10s:

Top Tip!
Colour the
number
that will be
changing to
help you.



NUMBERS AS WORDS

We need to learn to spell the numbers to 100 in words.

This is something we could practise at home.



Top Tip!

Remember to put a hyphen between the tens and ones:

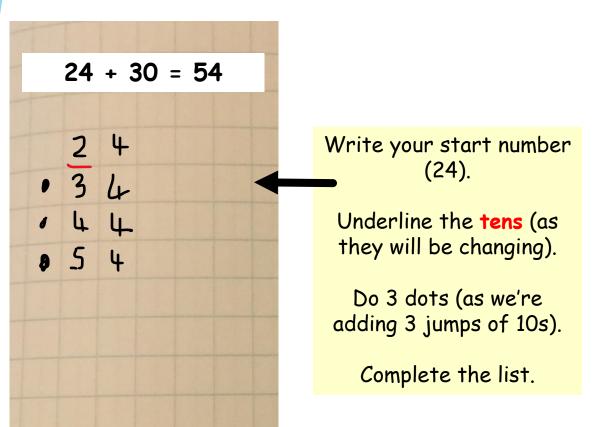
eighty-four

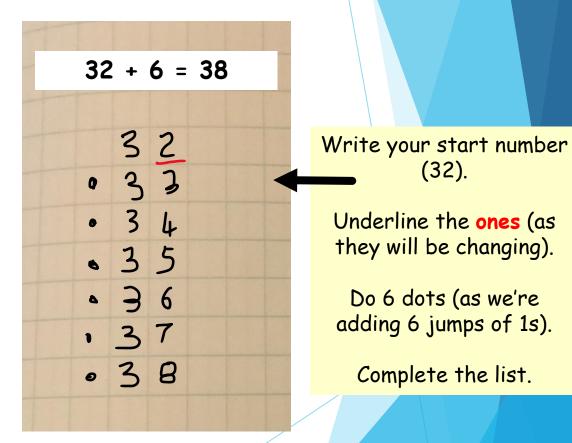


WHAT'S NEXT?

After half term, we'll be learning to add jumps of 10s or 1s to a 2-digit number.

This will be the method we use...





We'll then use the same method for **subtracting** jumps of 10s and 1s. We'll just count backwards when making our lists.

What can we do at home?

mber Line 15 16 17 18 19 20 e

Practise basic counting:

- To 100 forwards.
- From 100 backwards.
- From 20 backwards (teens are hard so practise this a lot).
- Counting in jumps of 2s, 5s and 10s (forwards and backwards).

10 > 0 9 > 1 8 > 2 7 > 3

- Start with learning your 2x off by-heart.
- Practise number bonds to 10, 20 and 100.

Play games:

There are lots of great games on 'Top Marks Maths K51' www.topmarks.co.uk/maths-games/5-7-years/counting

2 times table

```
1 x 2 = 2
2 x 2 = 4
3 x 2 = 6
4 x 2 = 8
5 x 2 = 10
6 x 2 = 12
7 x 2 = 14
8 x 2 = 16
9 x 2 = 18
10 x 2 = 20
11 x 2 = 22
12 x 2 = 24
Timestables.co.uk
```



Go on NumBots at home as often as you can. There are lots of brilliant activities to help you with basic fluency. Practising these things will make all the rest of the maths we learn this year feel so much easier.

Your logins are in your Reading Records.





Your Numbots login will also work on Times Table Rockstars if you feel you're ready to start learning your tables that way.