





Let's learn to enjoy, achieve, respect and nurture together



Introduction

- Whole School Calculation Policy
- Teaching methods have changed focus now on understanding, rather than following a set of given steps to solve problems
- Addition mental and written methods
- Subtraction mental and written methods
- Applying our maths.



Important Number Skills

Number bonds to: 10 e.g. 7 + 3

100 70 + 30

1000 70

700 + 300

Counting on and back in:

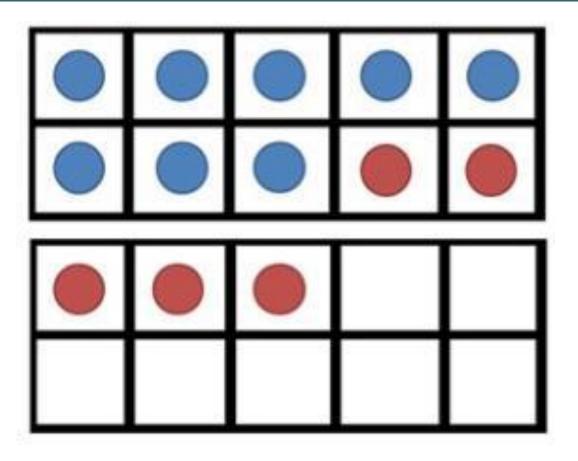
1s, 10s, 100s, 1000s



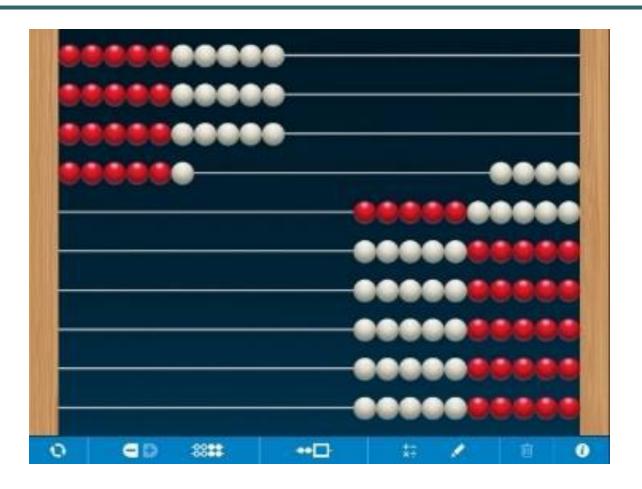
Making Maths Visual



Making Maths Visual 2



Making Maths Visual 3 (v)



Mental Method - Addition

$$4379 + 3215$$

Mentally add:

1000s
$$4000 + 3000 = 7000$$

100s $300 + 200 = 500$
10s $70 + 10 = 80$
1s $9 + 5 = 14$
 $7594 (w)$



Written Methods - Addition

Expanded:

4000 300 70 9

3000 200 10 5

+ 10

7000 500 90 4

= 7594

Compact:

4379

+ 3215

7594



Over to you.....

Choose either the 'Expanded' or 'Compact' method to work these out!

$$85 + 71$$

$$485 + 371$$

$$6485 + 2371$$



How did you get on?

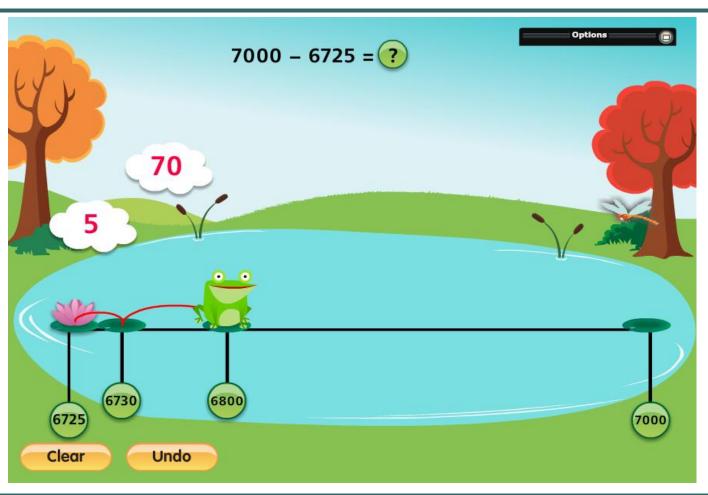
Expanded:

Compact:

(v)



Subtraction – Counting On (e)



Over to you.....

Have a go at using Frog's Counting On method to solve these problems!

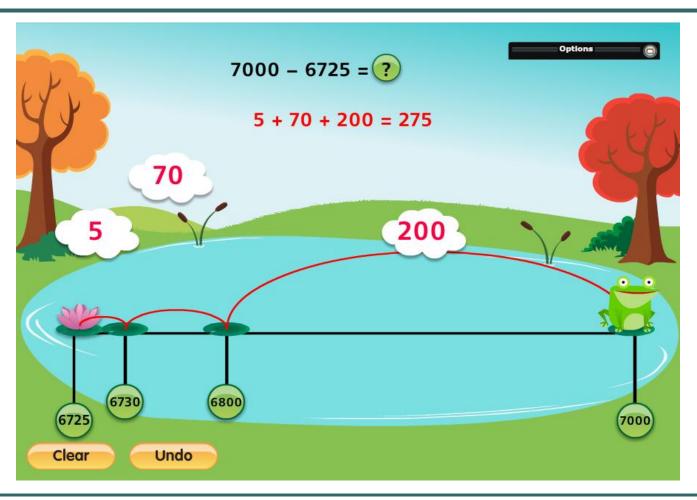
100 - 25

800 - 725

7000 - 6725



How did you get on?



Subtraction - Taking Away

Expanded:

4000 800 50 6

- 3000 600 20 4 1000 200 30 2

= 1232

Compact:

4856

- 3624

1232



Decomposition - helping each other (e)

	1200		
4000	200	170	
5000	300	70	2
- 2000	300	90	0
2000	00P C	80	2

100s	IOs	Is
12		
2	17	
3	7	2
3	q	0
q	8	2
	12 2 3	12 2 17 3 7

Now try one for yourselves....

$$46 - 29 = 546 - 229 =$$



How did you get on?

Expanded:

30 16 2000 500 40 6 - 1000 200 20 9

1000 300 10 7

= 1317

Compact:

3 1

2546

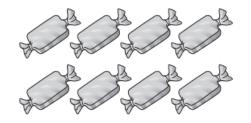
- 1229

1317



Applying Maths = Word Problems

Emma has these sweets.

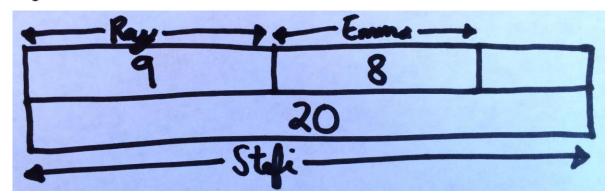


Stefi has these sweets.



Ray has 9 sweets.

How many more sweets does Stefi have than Ray's and Emma's put together?



Plenary

Mental strategies:

 Importance of having a good understanding of place value and number facts.

Addition:

Expanded & Compact methods

Subtraction:

- Counting On (Finding the difference with frog)
- Taking Away (Expanded and Compact Decomposition)
 - During Decomposition: we take from next column, not borrow

The National Curriculum and the Numeracy Framework

- Set of expectations for each year group from Reception to Year 9
- Applying numeracy skills in all areas of the curriculum
- Change in thinking applying numerical skills rather than just isolated maths lessons

Next steps....

Any questions?

Have a look at the web page:

www.barkerslaneprimary.co.uk

Please complete the questionnaire your feedback is important to us! Diolch yn fawr iawn!

