



Welcome to our Parents Workshop:  
Mathematics in Year 3

Noah was watching animals come onto the ark. By lunchtime he has seen 18 legs. What could he have seen?



(Use It & Own It Problem)

Nov 6-18:01



Calculation

- Standard written calculations are taught when pupils have fundamental ideas about place value and have a repertoire of mental calculation strategies

Nov 12-15:56

Mental Calculations *by the end of Yr 3*

Read and write numbers up to 1000 in numerals and words

Compare and order numbers up to 1000

Recognise the place value of each digit in a three-digit number (hundreds, tens, one)

Count from 0 in multiples of 100      Count from 0 in multiples of 50

Count from 0 in multiples of 4      Count from 0 in multiples of 8


Find 10 or 100 more or less than a given number

Add & subtract a three-digit number and ones mentally

Add & subtract a three digit number and hundreds mentally

Recall and use multiplication and division facts for the 2, 3, 4, 5, 8 and 10 times tables (**Time For Tables**)

**All things that can be practised at home.**



Nov 6-17:57

Written Calculations *Year 3*

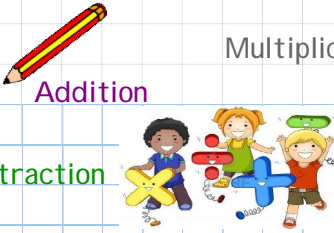
Year 3  
+ - HTO  
TO x O  
TO ÷ O

Addition


Subtraction

Division

Multiplication



Nov 12-20:23



What Teachers do...

- \* Key vocabulary pulled out - **developing pupil maths talk**
- \* Practical - visual model - numbers - **in context**
- \* Top Tips & model calculation - **on display**
- \* Do It, Use It, Own It

Do it - practising methods to become fluent

Use it - Empty boxes, checking with inverse (+, × ÷) word problems


Own it - Spotting mistakes, teaching a friend, reasoning problems

Nov 6-18:05

Firstly, Year 3 have to ensure a basic understanding of number and place value.

**The hats are really important!**


Games, problems and investigations allow the children to build on their understanding of number and they can discuss misconceptions.



Nov 12-19:44

### Addition

H	T	O	H	T	O
1	2	4	1	0	0
+	3	2	3	0	0
<hr/>			<hr/>		
4	4	6	4	0	0

Practical equipment

Nov 12-19:44

57 + 65 =      Addition Do It      368 + 93 =

57	368
+ 65	+ 93
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122	461

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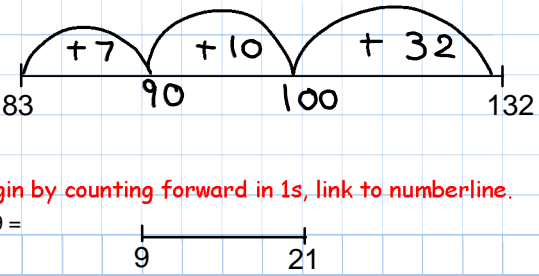
### Use It

$$\begin{array}{r}
 5 \quad \boxed{3} \\
 + \quad \boxed{7} \quad 4 \\
 \hline
 7 \quad (4 + 3) \\
 1 \quad 2 \quad 0 \quad (50 + 70) \\
 \hline
 1 \quad 2 \quad 7
 \end{array}$$

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### Subtraction - Finding the difference

② Numberline 132 - 83 = 49



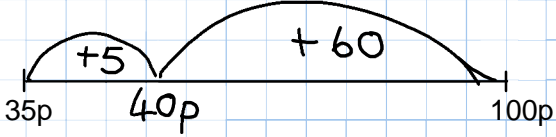
① Begin by counting forward in 1s, link to numberline.

21 - 9 =

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### Subtraction - Finding the difference

Numberline £1 - 35p = 65p



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### Subtraction - by partitioning

Columns 465 - 237 =      End of Y3

S	T	O	H	T	O
4	6	5	4	0	0
-	2	3	2	0	0
<hr/>			<hr/>		
2	2	8	2	0	0

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Multiplication LS

H T O	
4 5	
X 3	
1 5	(3 x 3)
1 2 0	(40 x 3)
1 3 5	

4 x 3

3 x 4 = 12


3 x 40 = 120

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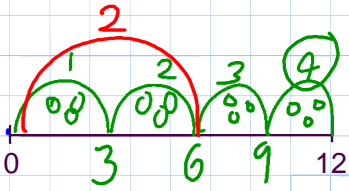
Division

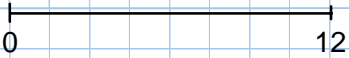
$12 \div 3 = 4$

12 people at the stop. We begin with one bus coming at a time. Each bus will have 3 seats. We will put the 12 people into groups of 3.



The 'Bus Stop' story





Nov 12-19:44