



Year 3

Addition

**Partitioning**

Use place value knowledge to partition the numbers and add each part

3	4	7	+	1	3	6	=						
3	0	0	+	1	0	0	=	4	0	0			
4	0		+	3	0		=	7	0				
7			+	6			=	1	3				
4	0	0	+	7	0		+	1	3	=	4	8	3

**Expanded column addition**

Children are shown how expanded column addition builds upon partitioning

$$\begin{array}{r}
 400 \quad 60 \quad 6 \\
 300 \quad 50 \quad 8 \\
 + 100 \quad 10 \\
 \hline
 800 \quad 20 \quad 4
 \end{array}$$

**Compact column addition**

Children **quickly** move to practising compact column addition.

	4	6	6	
+	3	5	8	
	1	1		
	8	2	4	

**Fractions**

Recognise fractions that add to 1.

$\frac{1}{4}$	+	$\frac{3}{4}$	=	1
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Subtraction

**Partitioning**

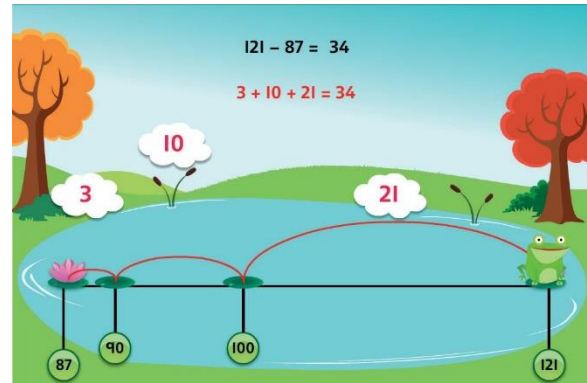
Use place value knowledge to partition the numbers and subtract each part

6	8	-	4	2	=		
6	0	-	4	0	=	2	0
8	-	2	=	6			
2	0	+	6	=	2	6	

Subtraction

**Counting up**

Find a difference between two numbers by counting up from the smaller to the larger



**Fractions**

Recognise complements of any fraction to 1

1	-	3	=	2
		5		5

Multiplication

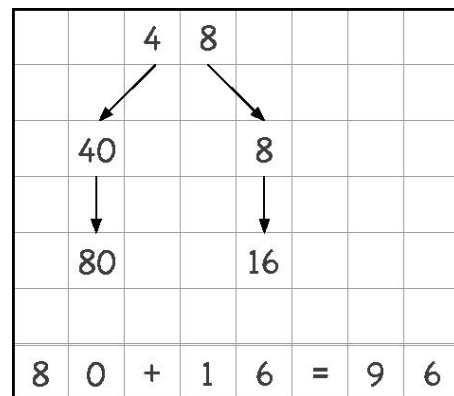
**Multiplication facts**

Become fluent with 1-5, 8 and 10 times tables

4	x	4	=	1	6
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**Partitioning to double**

Find doubles of numbers to 50 using partitioning



**Grid method**

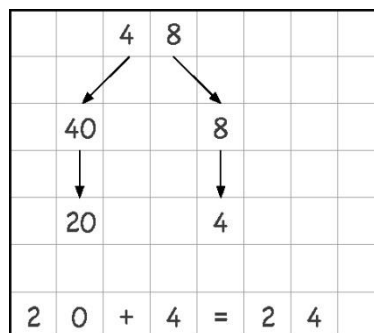
Build on partitioning to develop grid multiplication

x	20	3	
4	80	12	= 92



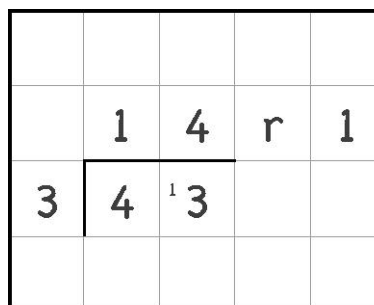
**Partitioning to halve**

Find half of even numbers to 100 using partitioning



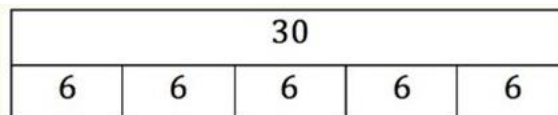
**Short division**

Perform divisions just above the 10th multiple, understanding how to give a remainder as a whole number



**Fractions**

Use bar modelling to find unit and simple non-unit fractions of amounts within the times-tables



$\frac{1}{5}$  of 30 = 6

$\frac{3}{5}$  of 30 = 18