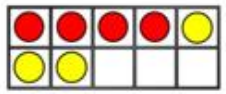
EYFS Calculation Policy

Addition

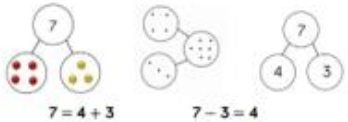
Tens frame



$4 + 3 = 7$
$3 + 4 = 7$
$7 - 3 = 4$
$7 - 4 = 3$

4 is a part.
3 is a part.
7 is the whole.

Part-whole model



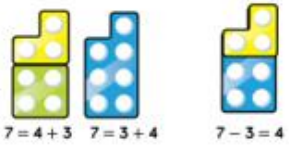
$7 = 4 + 3$
$7 = 3 + 4$

$7 - 3 = 4$
$7 - 4 = 3$

Number tracks

$5 + 3 = 8$

Numicon



$7 = 4 + 3$ $7 = 3 + 4$ $7 - 3 = 4$

Cubes

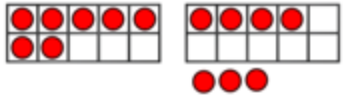
$7 = 4 + 3$

$7 = 3 + 4$

Key vocabulary: add, more, make, sum, total, altogether, how many more

Subtraction

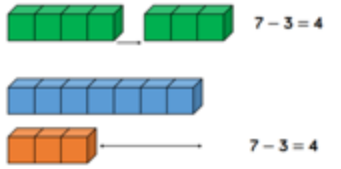
Tens frame



$7 - 3 = 4$

$10 - 4 = 6$

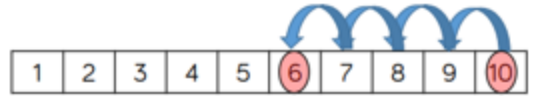
Cubes



$7 - 3 = 4$

$7 - 3 = 4$

Number tracks



Key vocabulary: take away, subtract, less than, left over

Multiplication

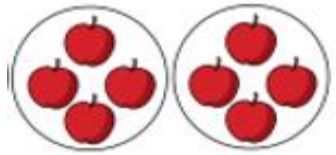
Concrete resources (counting in 2, 5s)

100 square

Key vocabulary: double, twice as many, two lots, groups of

Division

Concrete resources (sharing)



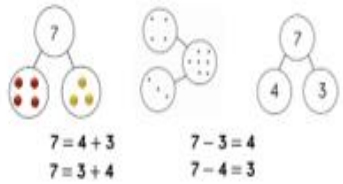
Concrete resources (halving)

Key vocabulary: share, halve, groups of

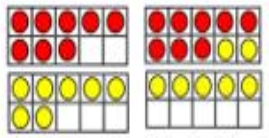
KS1 Calculation Policy

Addition

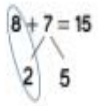
Part-whole model



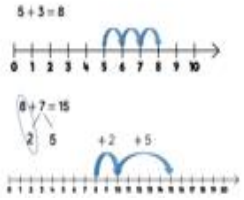
Tens frame

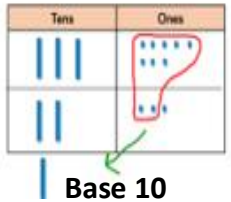


Partitioning



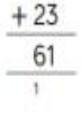
Number lines

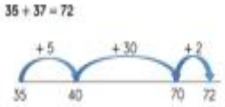




Base 10

Column addition



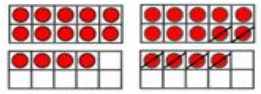


Blank number lines

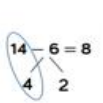
Key vocabulary: add, plus, altogether, double, near double, sum, total

Subtraction

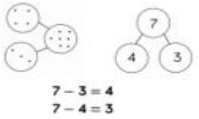
Tens frame



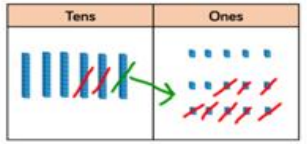
Partitioning

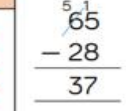


Part-whole model



Base 10





Number lines

Bar model

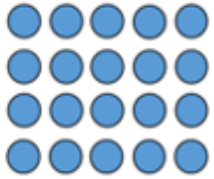
Column subtraction

7 − 3 = 4

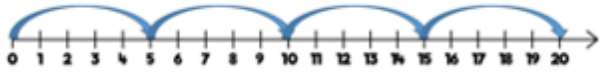
Key vocabulary: take away, minus, subtract, difference, half, halve, less than

Multiplication

Arrays



Number Lines



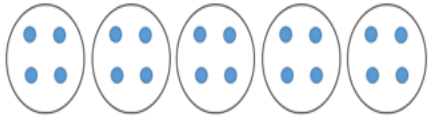
5 + 5 + 5 + 5 = 20
4 × 5 = 20
5 × 4 = 20

Repeated addition

Key vocabulary: times, multiply, repeated addition, how many times, how many lots of

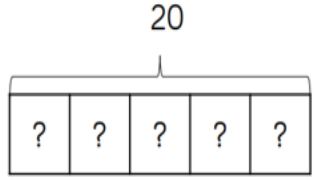
Division

Sharing/grouping



20 ÷ 5 = 4

Bar model

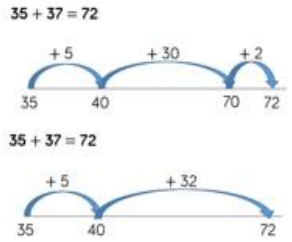


Key vocabulary: divide, share, groups of, lots of, equal groups, left over

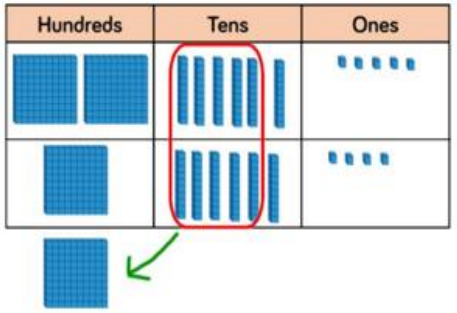
LKS2 Calculation Policy

Addition

Number lines (Numbered/blank)



Base 10



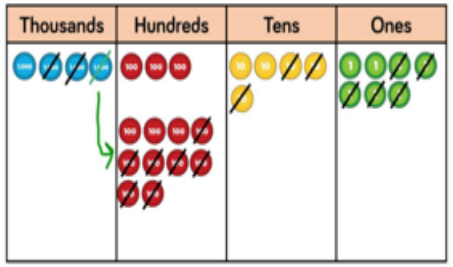
Column addition

$$\begin{array}{r} 265 \\ +\ 164 \\ \hline 429 \\ \hline 1 \end{array}$$

Key vocabulary: add, plus, altogether, double, near double, sum, total,

Subtraction

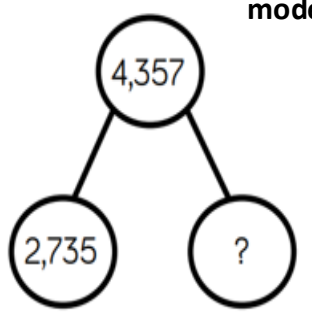
Place value counters and grid



Column subtraction

$$\begin{array}{r} {}^{3}\not{4}\,{}^{1}\not{3}57 \\ -\ 2735 \\ \hline 1622 \end{array}$$

Part-whole model



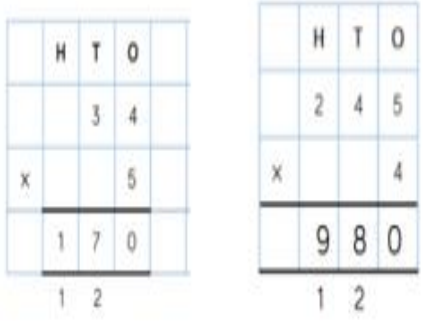
Key vocabulary: subtract, take away, difference, subtrahend, exchange, minuend

Multiplication

Place value counters

Place value chart

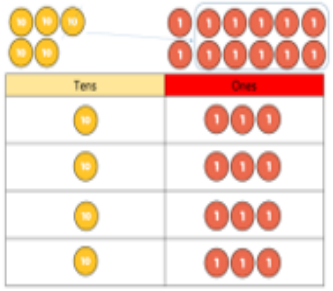
Short multiplication



Key vocabulary: product, factors, times, multiply, exchange, scale, commutative

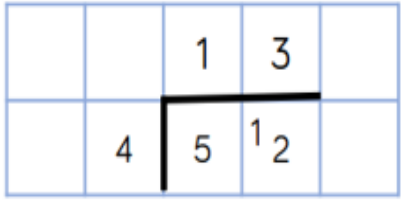
Division

Place value counters



$52 \div 4 = 13$

Short division (Bus stop method)



Key vocabulary: group, share, divide, distributive, remainders, dividend, divisor, quotient

UKS2 Calculation Policy

Addition

Column addition

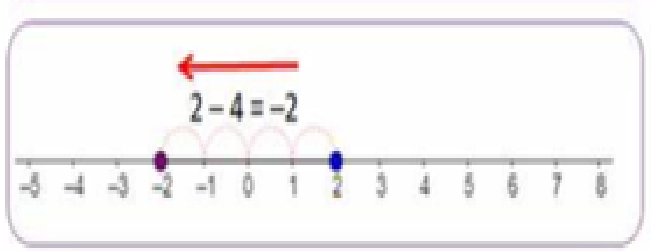
1	0	4	3	2	8
+	6	1	7	3	1
1	6	6	0	5	9
			1		

$$\begin{array}{r} 3.65 \\ +\ 2.41 \\ \hline 6.06 \\ \hline 1 \end{array}$$

Key vocabulary: add, plus, altogether, double, near double, sum, total, addend

Subtraction

Number lines (negative numbers)



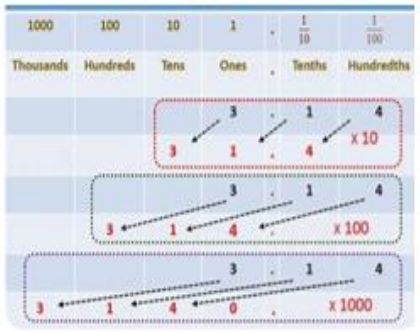
Column subtraction

	2	9	3	1 3	8	2
–	1	8	2	5	0	1
	1	1	1	8	8	1

Key vocabulary: subtract, take away, difference, subtrahend, exchange, minuend

Multiplication

Place value chart



Short/long multiplication

Th	H	T	O
	2	3	4
×		3	2
	4	6	8
1 7	1 0	2	0
7	4	8	8

TTh	Th	H	T	O
	2	7	3	9
×			2	8
2 2	1 5	9 3	1 7	2
1 5	4	7 1	8	0
7	6	6	9	2
		1		

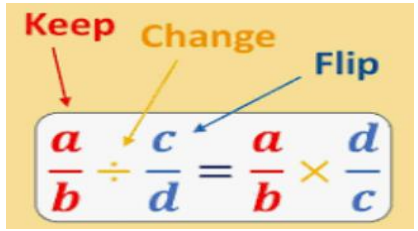
Key vocabulary: product, factors, times, multiply, exchange, commutative, prime/squared/cubed numbers

Division

Short division (Bus stop method)

	4	2	6	6
2	8	5	1 3	1 2

'Keep, change, flip' to divide fractions



Key vocabulary: group, share, divide, distributive, remainders, dividend, divisor, quotient