

Calculation Policy

Subtraction

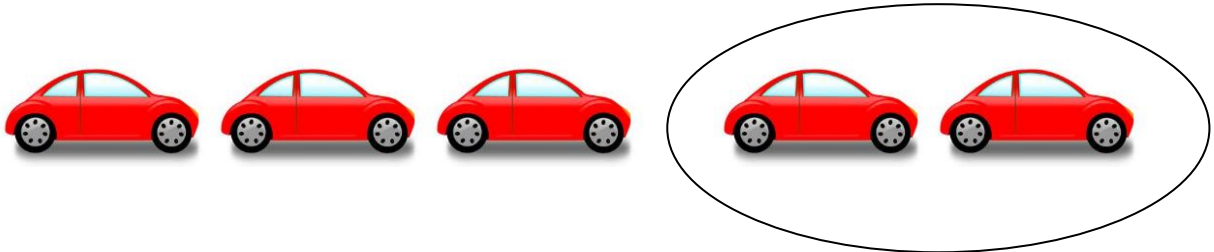
The following calculation policy has been devised to meet requirements of the National Curriculum for the teaching and learning of mathematics and is also designed to give pupils a consistent and smooth progression of learning in calculations across the school.

Age stage expectations

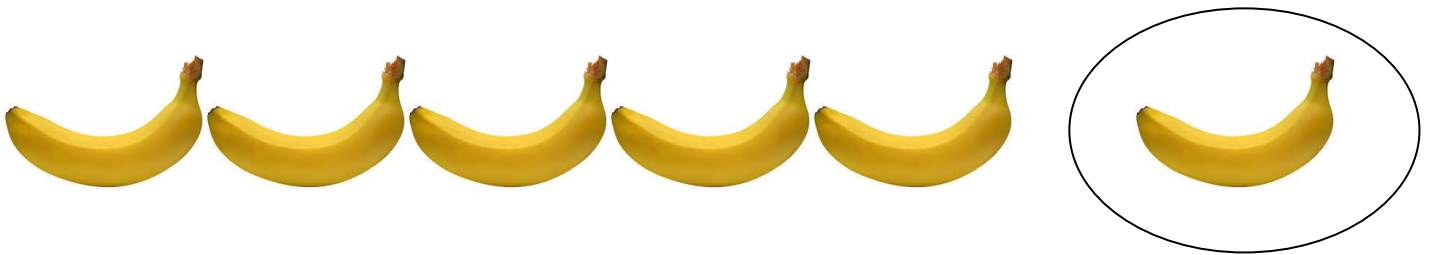
The calculation policy is organised according to academic year expectations as set out in the National Curriculum; **however, it is vital that pupils are taught according to the stage that they are currently working at**, being moved onto the next level as soon as they are ready, or working at a lower stage until they are secure enough to move on.

Subtraction: Early Years

Objects



5 take away 2 leaves 3



6 take away 1 leaf 5

Key vocabulary: take away, less, subtract, leaves, how many are left?

Key skills for subtraction in Early Years:

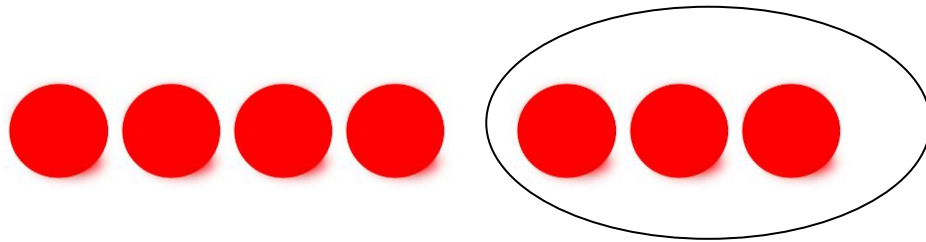
- I can use the language of 'fewer' to compare two sets of objects.
- I can say the number that is one less than a given number.
- In practical activities and discussion, I am beginning to use the vocabulary involved in subtracting.

Early Learning Goal

- Using quantities and objects, they subtract two single-digit numbers and count back to find the answer.

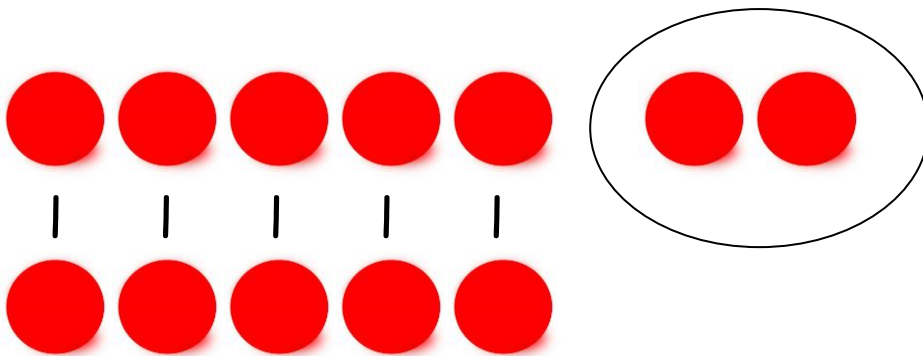
Subtraction: Year One

Objects



$$7 - 3 = 4$$

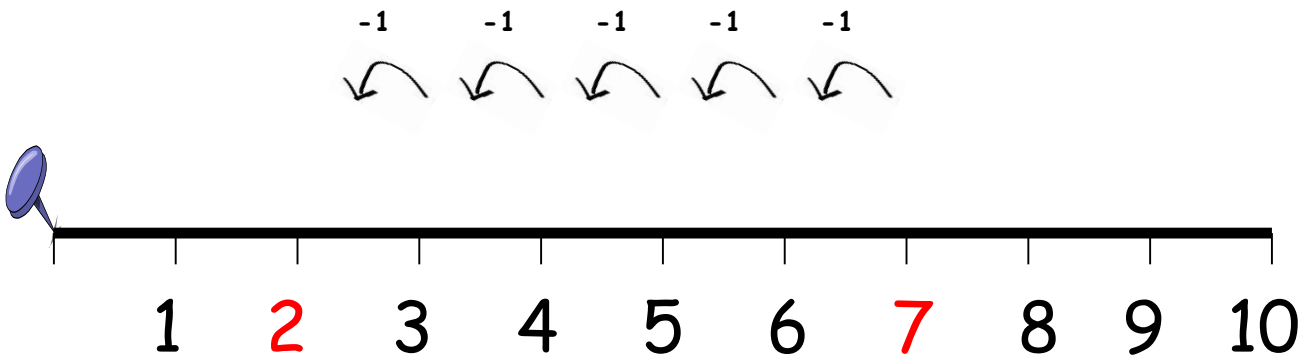
What's the difference?



$$7 - 5 = 2$$

Counting back

$$7-5=$$



$$7-5=2$$

Key vocabulary: equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer / less than, most, least, count back , how many are left?

Key skills for subtraction at Year One:

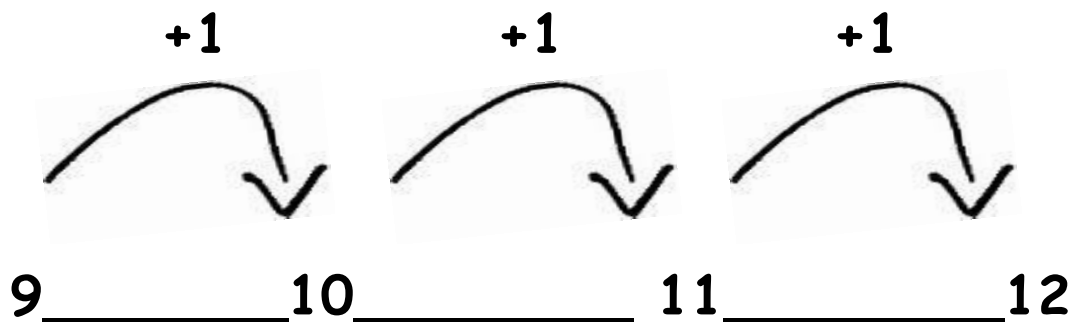
- I can subtract one digit numbers to twenty.
- I can show and use subtraction facts within twenty.
- I can read, write and understand calculations with - and = signs.
- I can solve one step problems using subtraction.

Subtraction: Year Two

Find the difference

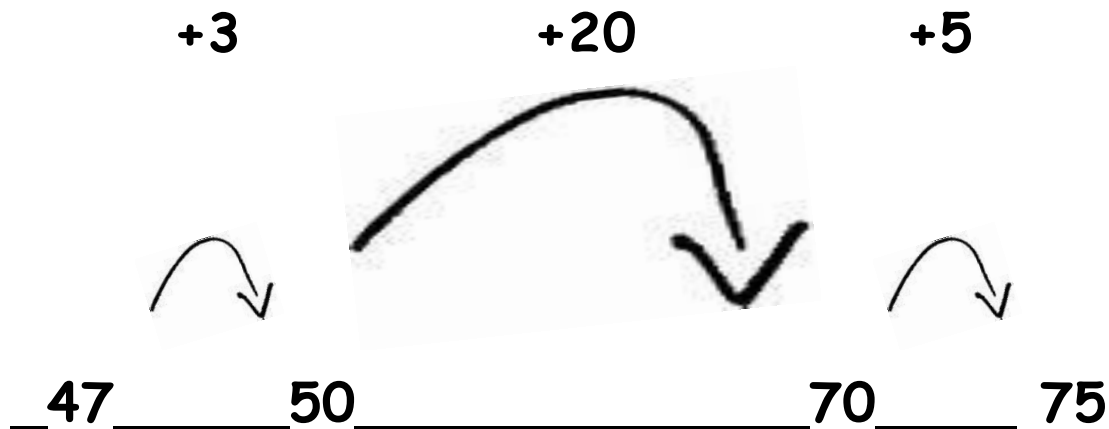
Counting on

$$12 - 9 =$$



$$12 - 9 = 3$$

$$75 - 47 =$$



$$75 - 47 = 28$$

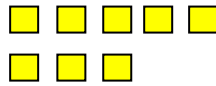
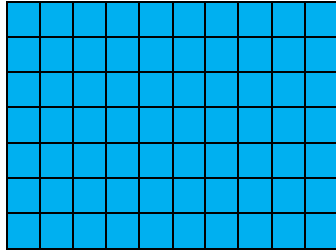
Key vocabulary: equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer, less than, most, least, count back , how many are left? difference, count on, strategy, partition, tens, ones

Key skills for subtraction at Year Two:

- I can solve simple one step problems with subtraction.
- I can recall and use subtraction facts to twenty.
- I can subtract a two digit number in ones and tens.

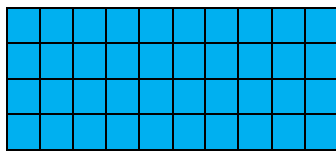
Subtraction: Year Three

$$78 - 46 =$$

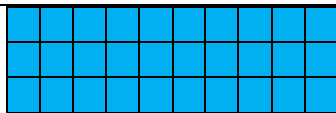


7 8

-

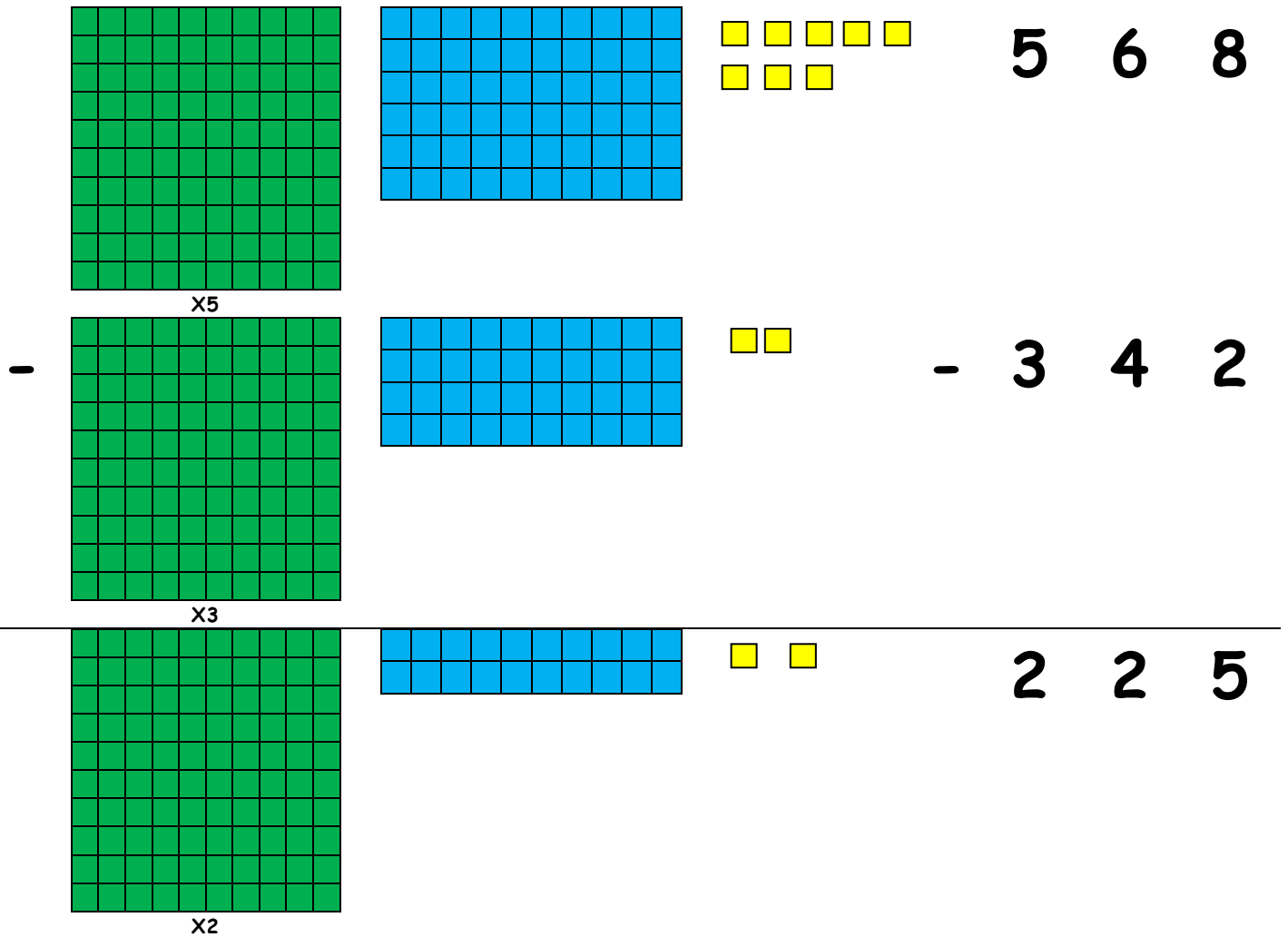


- 4 6



3 2

$$568 - 342 =$$



Key vocabulary: equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer, less than, most, least, count back, how many are?, difference, count on, strategy, partition, ones, tens, decrease, hundreds, value, digit

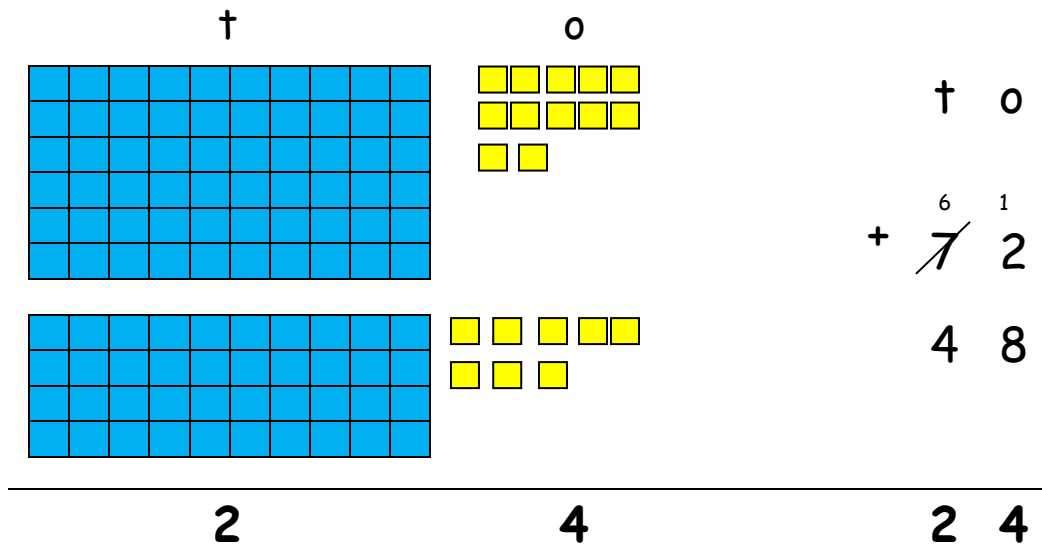
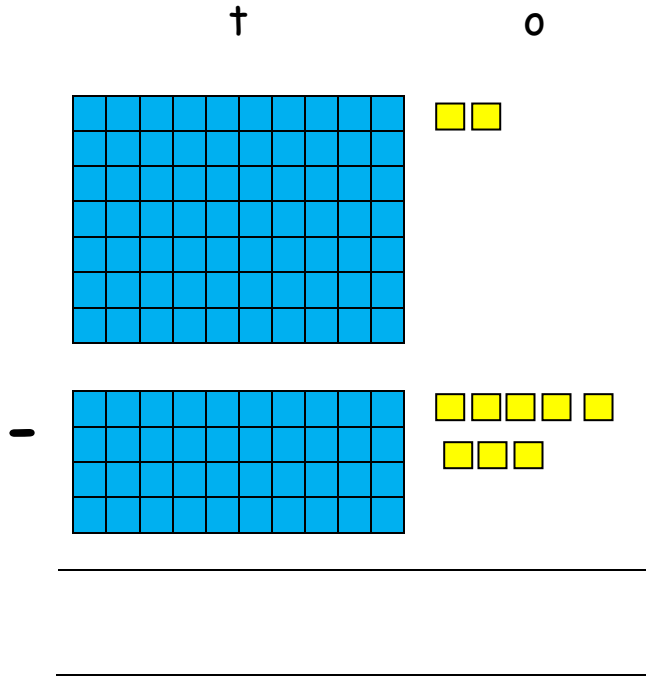
Key skills for subtraction at Year Three:

- I can subtract ones, tens and hundreds from three digit numbers.
- I can subtract numbers with up to three digits using an efficient written method.
- I can estimate the answer to a calculation and use inverse operations to check answers.

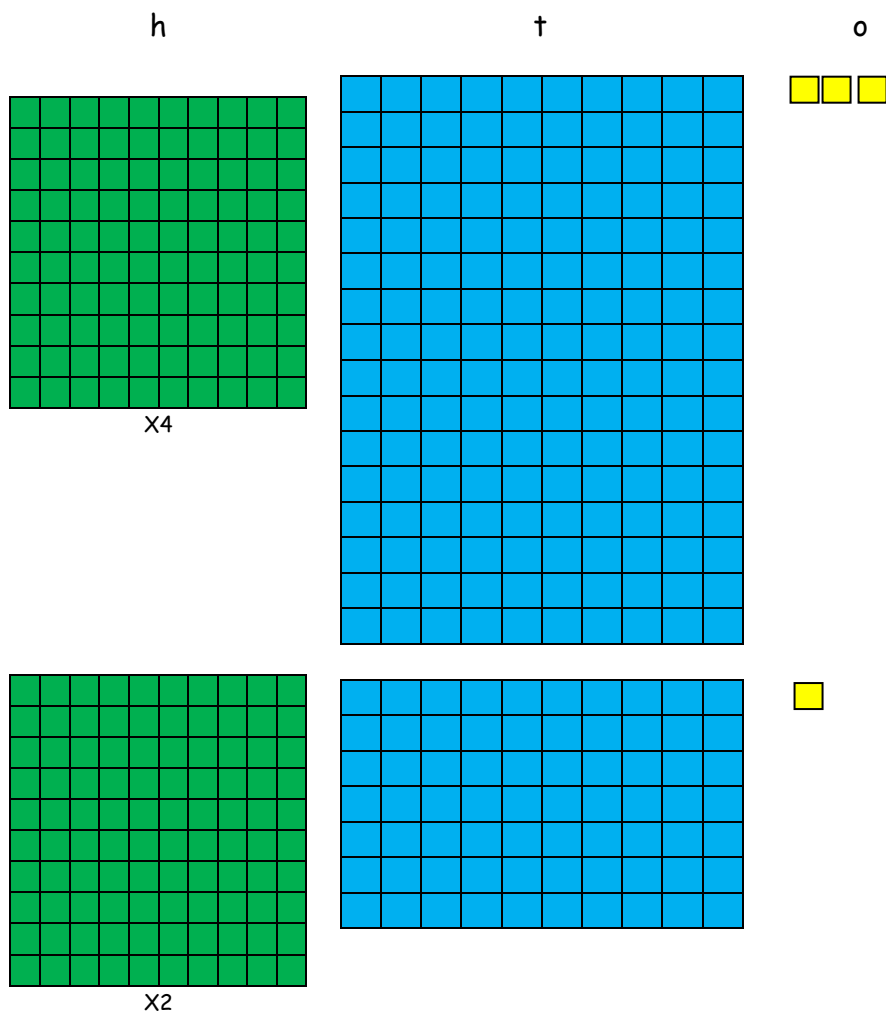
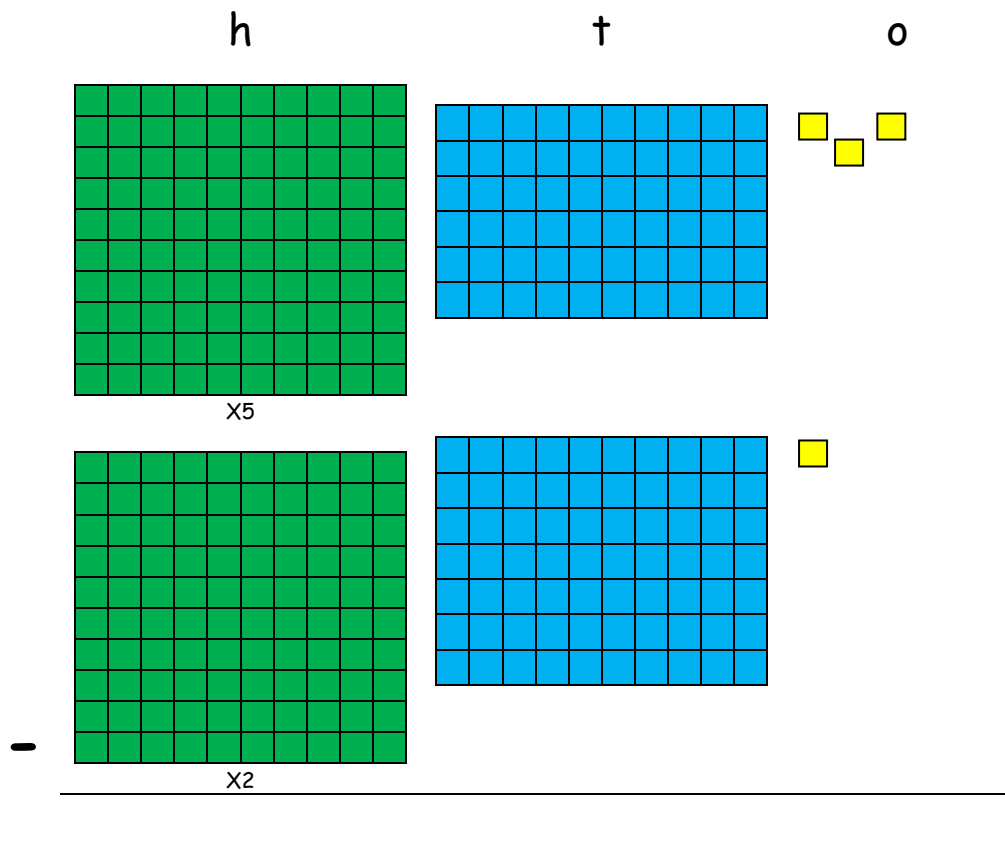
Subtraction: Year Four

Subtraction with exchange

$$\begin{array}{r}
 \text{t} \quad \text{o} \\
 7 \quad 2 \\
 - 4 \quad 8 \\
 \hline \\
 \hline
 \end{array}$$



	h	t	o
	5	6	3
-	2	7	1



h	t	o
⁴ 5	¹ 6	3
2	7	1

	2	9	2		2	9	2	
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Key vocabulary: take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer, less than, most, least, count back, how many left, difference, count on, strategy, partition, tens, ones exchange, decrease, hundreds, value, digit, inverse.

Key skills for Year Four:

- I can subtract numbers with up to 4 digits using efficient written methods.
- I can solve two-step subtraction problems deciding which operations and methods to use and why.
- I can solve mental calculations with increasingly large numbers.

Subtraction: Year Five

Reducing the equipment

$$\begin{array}{r}
 \text{t} \quad \text{h} \quad \text{t} \quad \text{o} \\
 2 \quad 2 \quad 2 \quad 2 \\
 - \quad \quad 1 \quad 3 \quad 5 \\
 \hline
 \hline
 \end{array}$$

t	h	t	o
-			

t	h	t	o	t	h	t	o
-				-			
				$ \begin{array}{r} \text{t} \quad \text{h} \quad \text{t} \quad \text{o} \\ 2 \quad \overset{1}{\cancel{2}} \quad \overset{1}{\cancel{2}} \quad \overset{1}{\cancel{2}} \\ - \quad \quad 1 \quad 3 \quad 5 \\ \hline 2 \quad 0 \quad 8 \quad 7 \end{array} $			

Key vocabulary: equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer, less than, most, least, count back, how many left, how much less is_? difference, count on, strategy, partition, tens, ones exchange, decrease, hundreds, value, digit, inverse, tenths, hundredths, decimal point, decimal.

Key skills for Year 5:

- I can subtract numbers with more than 4 digits using efficient written methods.
- I can subtract mentally using increasingly large numbers.
- I can solve multi-step subtraction problems in contexts, deciding which operations and methods to use and why.

Subtraction: Year Six

Efficient written methods

$$\begin{array}{r}
 \begin{array}{ccccccc}
 & 0 & & 14 & & 1 & 9 \\
 & \cancel{1} & \cancel{5} & \cancel{0} & \cdot & 6 & 9 & 9 \\
 - & & 8 & 9 & \cdot & 9 & 4 & 9 \\
 \hline
 & & 6 & 0 & & 7 & 5 & 0
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{ccccccc}
 & 0 & & 1 & 9 & & 1 \\
 & \cancel{1} & \cancel{0} & 5 & \cdot & \cancel{4} & 1 & 9 & \text{kg} \\
 - & & 3 & 6 & \cdot & 0 & 8 & 0 & \text{kg} \\
 \hline
 & & 6 & 9 & \cdot & 3 & 3 & 9 & \text{kg}
 \end{array}
 \end{array}$$

Key vocabulary: equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer, less than, most, least, count back, how many left, how much less is_? difference, count on, strategy, partition, tens, ones exchange, decrease, hundreds, value, digit, inverse, tenths, hundredths, decimal point, decimal

Key skills for subtraction at Year 6:

- I use estimation to check answers to calculations.
- I can solve addition and subtraction multi-step problems.