

Stone CE Combined School Calculation Policy 2017-2018 Reception to Year 6

Stone CE Combined School Calculation Policy 2017-2018



This policy is based on the resources produced by the NCETM (National Centre for Excellence in the Teaching of Mathematics) and the Maths No Problem Scheme that the school has purchased.

Progression within in each area of calculation follows the programme of study in the 2014 National Curriculum. It includes written strategies, pedagogy and visual representations for each operation from Reception to Year 6.

Mathematical understanding is developed through use of representations that are first of all concrete (e.g. Dienes, apparatus), then pictorial (e.g. array, place value counters) to then facilitate abstract working (e.g. columnar addition, long multiplication). It is important that conceptual understanding, supported by the use of representation, is secure for procedures and if at any point a pupil is struggling with a procedure, they should revert to concrete and/or pictorial resources and representations to solidify understanding.

Problem Solving

Where possible, concepts should be taught in the context of real life. Teachers should ensure that pupils have the opportunity to apply their knowledge in a variety of contexts and problems (exploring cross-curricular links) to deepen their understanding.

Addition - EYFS

Maths for young children should be meaningful. Where possible, concepts should be taught in the context of real life.

GUIDANCE / MODELS ANI) IM	AGE	S								KEY VOCABULARY
If available, Numicon shapes are introduced straight away and can b	e use	d to:									Games and songs
 identify 1 more/less 											can be a useful way
 combine pieces to add. 						-	A	H	r H	H	to begin using
 find number bonds. 		2	æ	88	Ħ	Ħ	Ħ	Ħ	Ħ	2 C	vocabulary involved
 add without counting. 	1	2	3	4	5	6	7	-	-	10	in addition e.g.
Children can record this by printing or drawing around Numicon											Alice the Camel
pieces.											Alice the Camel
Children begin to combine groups of objects using concrete appara	us										add
											more
Construct number sentences verbally or using cards to go with pract	ical a	ctivit	ies.								and
Children are encouraged to read number sentences aloud in differe	ntwa	VS									make
"Three add two equals 5" "5 is equal to three and two"		/-									sum
Children make a record in pictures, words or symbols of addition act	ivitie	salre	adv	carri	edo	ut.					total
Ma											altogether
Solve simple problems using fingers											score
5 + 1 = 6											double
Number tracks can be introduced to count up on and to find one mo	re:	1	2	3 4	5	6					one more, two more, ten
What is 1 more than 4? 1 more than 13?											more
									m		havenante
Number lines can then be used alongside number tracks and practic	alap	parat	us to		5 - 3	8 = 8		345	678	9 10	how many more to make?
solve addition calculations and word problems.									É		HONC!
Children will need opportunities to look at and talk about different	mod	els a	nd in	nage	s as	they	mo	ve be	twe	en	how many more is
representations.											than?

Addition - Year 1	Addition - Year 2	Addition - Year 3
<u>+ = signs and missing numbers</u> Children need to understand the concept of equality before using the '=' sign. Calculations should be written	Missing number problems e.g $14 + 5 = 10 + \Box$ $32 + \Box + \Box = 100$ $35 = 1 + \Box + 5$	Missing number problems using a range of equations as in Year 1 and 2 but with appropriate, larger numbers.
either side of the equality sign so that the sign is not just interpreted as 'the answer'. 2 = 1+1 2 + 3 = 4 + 1	It is valuable to use a range of representations (also see Y1). Continue to use numberlines to develop understanding of: Counting on in tens and ones 23 + 12 = 23 + 10 + 2	<u>Partition into tens and ones</u> Partition both numbers and recombine. Count on by partitioning the second number only e.g. 247 + 125 = 247 + 100 + 20 + 5
Missing numbers need to be placed in all possible places.	= 33 + 2 = 35 23 33 35 Partitioning and bridging through 10.	= 347 + 20 + 5 = 367 + 5 = 372 Children need to be secure adding multiples of 100 and
$3 + 4 = \Box$ $\Box = 3 + 4$ $3 + \Box = 7$ $7 = \Box + 4$ Counting and Combining sets of Objects	The steps in addition often bridge through a multiple of 10 e.g. Children should be able to partition the 7 to relate adding the 2 and then the 5. 8 + 7 = 15 +2 +3	10 to any three-digit number including those that are not multiples of 10. Numberlines can still be used.
Combining two sets of objects (aggregation) which will progress onto adding on to a set (augmentation)	Adding 9 or 11 by adding 10 and adjusting by 1	Towards a Written Method Introduce expanded column addition modelled with place value counters (Dienes could be used for those who need a less abstract representation)
	e.g. Add 9 by adding 10 and adjusting by 1 35 + 9 = 44 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 35 44^{-45} -1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Understanding of counting on with a number track.	Towards a Written Method Partitioning in different ways and recombine	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Understanding of counting on with a number line (supported by models and images).	47+25 47 25 60+12	(1) (1) 60 (1) <u>300</u> 372
7+ 4 and 4 + 7 (switch it)	//// = + // = //////	Leading to children understanding the exchange between tens and ones.
0 1 2 3 4 5 6 7 8 9 10 11 12	Leading to exchanging: 72	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	///////:	
Using Numicon number lines.	Expanded written method $40 + 7 + 20 + 5 =$ $40 + 7$ $40+20 + 7 + 5 =$ $+ 20 + 5$ $60 + 12 = 72$ $60 + 12 = 72$	Some children may begin to use a formal columnar algorithm, initially introduced alongside the expanded method. The formal method should be seen as a more streamlined version of the expanded method, not a new method. 247
		+125

+125 372



Addition - Year 4 Addition - Year 5 Missing number/digit problems: Missing number/digit problems: Missing number/digit problems: Mental methods should continue to develop, Mental methods should continue to develop, supported supported by a range of models and images, by a range of models and images, including the number line. The bar model should continue to be used to help including the number line. The bar model should continue to be used to help with problem solving. with problem solving. Children should practise with Written methods (progressing to 4-digits) increasingly large numbers to aid fluency e.g. 12462 + 2300 = 14762 Expanded column addition modelled with place Written methods value counters, progressing to calculations with 4-Written methods (progressing to more than 4-digits) digit numbers. As year 4, progressing when understanding of the 200 + 40 + 711expanded method is secure, children will move on to the 1<u>00 + 20 + 5</u> $\overline{300 + 60 + 12} = 372$ formal columnar method for whole numbers and decimal 11 numbers as an efficient written algorithm. 1 247 +125 1112 11 172.83 60 1 + 54.68 <u>300</u> 372 227.51 1 1 1 Compact written method

Extend to numbers with at least four digits.



Children should be able to make the choice of reverting to expanded methods if experiencing any difficulty.

Extend to up to two places of decimals (same number of decimals places) and adding several numbers (with different numbers of digits).

72.8 + 54.6 127.4 11

Place value counters can be used alongside the columnar method to develop understanding of addition with decimal numbers.

Addition - Year 6

Mental methods should continue to develop, supported by a range of models and images, including the number line. The bar model should continue to be used to help with problem solving.

As year 5, progressing to larger numbers, aiming for both conceptual understanding and procedural fluency with columnar method to be secured. Continue calculating with decimals, including those with different numbers of decimal places

Subtraction - EYFS

Maths for young children should be meaningful. Where possible, concepts should be taught in the context of real life.

GUIDANCE / MODELS AND IMAGES		KEY VOCABULARY
Children begin with mostly pictorial representations		Games and songs can be
		a useful way to begin
XXX XX		using vocabulary
		involved in subtraction
		e.g.
Concrete apparatus is used to relate subtraction to taking away and counting how many	• • • • X	Five little men in a flying
objects are left.	5 - 1 = 4	saucer
Concrete apparatus models the subtraction of 2 objects from a set of 5.		
Construct number sentences verbally or using cards to go with practical activities.		take (away)
		leave
Children are encouraged to read number sentences aloud in different ways "five subtract one lea	ves four" "four is	leave
equal to five subtract one"		how many are left/left
		over?
Children make a record in pictures, words or symbols of subtraction activities already carried out		
		how many have gone?
Solve simple problems using fingers		one less, two less ten
V 7 V 9		less
5-1 =4		1035
Number tracks can be introduced to count back and to find one less:		how many fewer is
		than ?
What is 1 less than 9? 1 less than 20?		cridina:
		difference between
Number lines can then be used alongside number tracks and practical 8 - 3 = 5	++++++	unerence between
apparatus to solve subtraction calculations and word problems. Children 0 1 2 3 4	5678910	is the same as
count back under the number line.	6	
Children will need opportunities to look at and talk about different models and images as they r	nove between	
representations.		

Subtraction - Year 1

Missing number problems e.g. $7 = \Box - 9$; 20 - $\Box = 9$; 15 - 9 = \Box ; \Box - \Box = 11; 16 - 0 = \Box

Use concrete objects and pictorial representations. If appropriate, progress from using number lines with every number shown to number lines with significant numbers shown.

Understand subtraction as take-away:



Understand subtraction as finding the difference:





The above model would be introduced with concrete objects which children can move (including cards with pictures) before progressing to pictorial representation.

The use of other images is also valuable for modelling subtraction e.g. Numicon, bundles of straws, Dienes apparatus, multi-link cubes, bead strings

Subtraction - Year 2

Missing number problems e.g. $52 - 8 = \Box$; $\Box - 20 = 25$; $22 = \Box - 21$; $6 + \Box + 3 = 11$

It is valuable to use a range of representations (also see Y1). Continue to use number lines to model take-away and difference.



The link between the two may be supported by an image like this, with 47 being taken away from 72, leaving the difference, which is 25.



The bar model should continue to be used, as well as images in the context of **measures**.

Towards written methods

E.g.

Recording addition and subtraction in expanded columns can support understanding of the quantity aspect of place value and prepare for efficient written methods with larger numbers. The numbers may be represented with Dienes apparatus. E.g. 75 - 42



Subtraction - Year 3

Missing number problems e.g. $\Box = 43 - 27$; $145 - \Box = 138$; $274 - 30 = \Box$; $245 - \Box = 195$; $532 - 200 = \Box$; $364 - 153 = \Box$

<u>Mental methods</u> should continue to develop, supported by a range of models and images, including the number line. The bar model should continue to be used to help with problem solving (see Y1 and Y2). Children should make choices about whether to use complementary addition or counting back, depending on the numbers involved.

Written methods (progressing to 3-digits)

Introduce expanded column subtraction with no decomposition, modelled with place value counters (Dienes could be used for those who need a less abstract representation)



For some children this will lead to exchanging, modelled using <u>place value counters (or Dienes</u>).



A number line and expanded column method may be compared next to each other.

Some children may begin to use a formal columnar algorithm, initially introduced alongside the expanded method. The formal method should be seen as a more streamlined version of the expanded method, not a new method.

Subtraction - Year 1	Subtraction - Year 2	Subtraction - Year 3
Using number bonds	$37-2$ $7-2=5$ $30+5=35$ $23-5=$ 12 12 13 3 $\frac{12}{5}$ $\frac{13}{5}$ $\frac{12}{5}$ $\frac{12}{3}$ $\frac{12}{5}$ $\frac{12}{3}$ $\frac{1}{3}$ $\frac{1}{3}$	Hundreds Tens ones 9 7 5 -7 2 3 2 5 2 H T O 8 23 114 -2 6 8 0 5 Cubes can be used Link to the Bar Model
	Then subtract the tens 32 - 16 = 16 $Tens$ $Tens$ $Tens$ $2 - 16$ 1 6 1 6	

Subtraction - Year 4	Subtraction - Year 5	Subtraction - Year 6
Missing number/digit problems: $456 + = 710$; 1 = 7 + 6 = 200; $60 + 99 + = 340$; $200 - 90 - 80 == 225 - = 150$; $= -25 = 67$; $3450 - 1000 = =$; $= -2000 = 900Mental methods should continue to develop,supported by a range of models and images,including the number line. The bar model shouldcontinue to be used to help with problem solving.Written methods (progressing to 4-digits)Expanded column subtraction with decomposition,modelled with place value counters, progressingto calculations with 4-digit numbers.If understanding of the expanded method issecure, children will move on to the formalmethod of decomposition, which again can beinitially modelled with place value counters.$	Missing number/digit problems: $6.45 = 6 + 0.4 + \Box$; $119 - \Box$ = 86; 1 000 000 - \Box = 999 000; 600 000 + \Box + 1000 = 671 000; 12 462 - 2 300 = \Box <u>Mental methods</u> should continue to develop, supported by a range of models and images, including the number line. The bar model should continue to be used to help with problem solving. <u>Written methods (progressing to more than 4-digits)</u> When understanding of the expanded method is secure, children will move on to the formal method of decomposition, which can be initially modelled with place value counters.	Missing number/digit problems: \Box and # each stand for a different number. $\# = 34$. $\# + \# = \Box + \Box$ + $\#$. What is the value of \Box ? What if $\# = 28$? What if # = 21 10 000 000 = 9 000 100 + \Box 7 - 2 x 3 = \Box ; (7 - 2) x 3 = \Box ; (\Box - 2) x 3 = 15 <u>Mental methods</u> should continue to develop, supported by a range of models and images, including the number line. The bar model should continue to be used to help with problem solving. <u>Written methods</u> As year 5, progressing to larger numbers, aiming for both conceptual understanding and procedura fluency with decomposition to be secured.

Progress to calculating with decimals, including those with different numbers of decimal places.

118

Continue calculating with decimals, including those with different numbers of decimal places.

Multiplication - EYFS

Maths for young children should be meaningful. Where possible, concepts should be taught in the context of real life.



Multiplication - Year 1

Understand multiplication is related to doubling and combing groups of the same size (repeated addition)

Washing line, and other practical resources for counting. Concrete objects. Numicon; bundles of straws, bead strings



2+2+2+2+2=10
2×5=10
2 multiplied by 5
5 pairs
5 hops of 2



 $\times 6 = 30$ 5 multiplied by 6 6 groups of 5 6 hops of 5

5+5+5+5+5=30

Problem solving with concrete objects (including money and measures)

Use cuisenaire and bar method to develop the vocabulary relating to 'times' -Pick up five, 4 times

Use arrays to understand multiplication can be done in any order (commutative)



Multiplication - Year 2

Expressing multiplication as a number sentence using x Using understanding of the inverse and practical resources to solve missing number problems.

7 x 2 = 🗌	🗆 = 2 x 7
7 x 🗆 = 14	14 = 🗆 x 7
□ x 2 = 14	14 = 2 x 🗌
□ x () = 14	14 = 🗆 x 🔿

Develop understanding of multiplication using array and number lines (see Year 1). Include multiplications not in the 2, 5 or 10 times tables.

Begin to develop understanding of multiplication as scaling (3 times bigger/taller)



Using known doubles to work out double 2d numbers (double 15 = double 10 + double 5)

Towards written methods

Use jottings to develop an understanding of doubling two digit numbers.



Multiplication - Year 3

Missing number problems Continue with a range of equations as in Year 2 but with appropriate numbers. Continue using the number line

Mental methods

Doubling 2 digit numbers using partitioning

Demonstrating multiplication on a number line jumping in larger groups of amounts

 $13 \times 4 = 10$ groups of 4 + 3 groups of 4

Written methods (progressing to 2d x 1d)

Developing written methods using understanding of visual images 10 0 0 0 0 0 0 0 \bigcirc 0 \bigcirc \bigcirc • • 0 \circ **3**(**P**) 0 0 0 \circ \bigcirc 0 0 0 0 0 0 0 Develop onto the grid method 8 10 3 30 24

Give children opportunities to explore this and deepen understanding using Dienes apparatus and place value counters



double 4

 $4 \times 2 = 8$

Multiplication - Year 1	Multiplication - Year 2	Multiplication - Year 3
	Using an array e.g. 10 x 2 = or 2 x 10 =	$2 \times 4 = 8$ Ones $2 \times 4 = 8$ $\frac{2}{x \cdot 4}$ $\frac{x \cdot 4}{-8}$
	$2 \times 10 =$	Move onto $20 \times 4 =$ Tens Ones 2 0 x 4 8 0
		23 x 2 = 46 Tens Ones 2 3
		$\begin{array}{c c} x & 2 \\ \hline \hline \\ \hline \\ Tens \\ 2 \\ \hline \\ x \\ \hline \\ 2 \\ \hline \\ x \\ \hline \\ 6 \\ 4 \\ 0 \\ \end{array}$
		Tens Ones 2 3 $\frac{x}{2}$ $\frac{2}{6}$ $\frac{+4}{2}$ $\frac{0}{4}$

Multiplication - Year 4	Multiplication - Year 5	Multiplication - Year 6
Continue with a range of equations as in Year 2 but with appropriate numbers. Also include equations with missing digits 2 x 5 = 160	Continue with a range of equations as in Year 2 but with appropriate numbers. Also include equations with missing digits	Continue with a range of equations as in Year 2 but with appropriate numbers. Also include equations with missing digits
Mental methods Counting in multiples of 6, 7, 9, 25 and 1000, and steps of 1/100. Solving practical problems where children need to scale up. Relate to known number facts. (e.g. how tall would a 25cm sunflower be if it grew 6 times taller?)	Mental methodsX by 10, 100, 1000 using moving digits ITPUse practical resources and jottings to explore equivalent statements (e.g. 4 x 35 = 2 x 2 x 35)Recall of prime numbers up 19 and identify prime numbers up to 100 (with reasoning)Solving practical problems where children need to scale	Mental methods Identifying common factors and multiples of give numbers Solving practical problems where children need t scale up. Relate to known number facts. Written methods Continue to refine and deepen understanding of written methods including fluency for using long multiplication
Written methods (progressing to 3d x 2d) Children to embed and deepen their understanding of the grid method to multiply up	up. Relate to known number facts. Identify factor pairs for numbers	X 1000 300 40 2
2d x 2d. Ensure this is still linked back to their understanding of arrays and place value counters.	Written methods (progressing to 4d x 2d)	10 10000 3000 400 20
10 8 10 8 10 8 10 8 10 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Long multiplication using place value counters Children to explore how the grid method supports an understanding of long multiplication (for 2d x 2d)	8 8000 2400 320 16
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10 8	1 3 4 2
10 8	100 80 1 8 0 5	x 18 13420
10 100 80	3 30 24 2 3 4	10736
3 30 24		24156

Multiplication - Year 4	Multiplication - Year 5	Multiplication - Year 6
WUITIPIICATION - YEAR 4 $23 23 \times 6 = \frac{1}{120 18}$ $20 \times 6 3 \times 6$ $23 \times 6 = 120 + 18$ = 138	Multiplication - Year 5	Provide the second seco

Division and fractions - EYFS

Maths for young children should be meaningful. Where possible, concepts should be taught in the context of real life.

GUIDANCE / MODELS AND IMAGES	KEY VOCABULARY
The ELG states that children solve problems, including doubling, halving and sharing.	halve
Children need to see and hear representations of division as both grouping and sharing.	share, share equally
Division can be introduced through halving.	one each, two each, three each
Children begin with mostly pictorial representations linked to real life contexts:	group in pairs, threes
Grouping model	tens
(X X) (X X) Mum has 6 socks. She grouped them into pairs - how many pairs did she	equal groups of
make?	divide
Sharing model	divided by
I have 10 sweets. I want to share them with my friend. How many will we have each?	divided into
	left, left over
Children have a go at recording the calculation that has been carried out.	

FRACTIONS

GUIDANCE / MODELS AND IMAGES	KEY VOCABULARY
Although not explicit in the Development Matters document, the sharing model is a useful way of introducing young children to fractions and calculating with fractions.	As division vocabulary plus: fraction
Setting the problems in real life context and solving them with <u>concrete apparatus</u> will support children's understanding.	half halves
"I have got 5 bones to share between my two dogs. How many bones will they get each?"	third
Children have a go at recording the calculation that has been carried out.	thirds

Division - Year 1

Children must have secure counting skills- being able to confidently count in 2s, 5s and 10s. Children should be given opportunities to reason about

what they notice in number patterns.

Group AND share small quantities- understanding the difference between the two concepts.

Sharing

Develops importance of one-to-one correspondence.



shared between 5

Children should be taught to share using concrete apparatus.

Grouping

Children should apply their counting skills to develop some understanding of grouping.

How many 3s in 15? 3 = 5

Use of arrays as a pictorial representation for division. 15 ÷ 3 = 5 There are 5 groups of 3. 15 ÷ 5 = 3 There are 3 groups of 5.



Children should be able to find $\frac{1}{2}$ and $\frac{1}{4}$ and simple fractions of objects, numbers and quantities.

Bitision			
÷ = signs and missing numbers			
6 ÷ 2 = 🗆	□ = 6 ÷ 2		
6 ÷ 🗆 = 3	3 = 6 ÷ 🗆		

 $\Box \div 2 = 3$ $3 = \Box \div 2$ $\Box \div \nabla = 3$ $3 = \Box \div \nabla$

Know and understand sharing and grouping- introducing children to the \div sign.

Division - Year 2

Children should continue to use grouping and sharing for division using practical apparatus, arrays and pictorial representations.

Grouping using a numberline

Group from zero in jumps of the divisor to find ourt'how many groups of 3 are there in 15?'.

15 ÷ 3 = 5







Continue work on arrays. Support children to understand how multiplication and division are inverse. Look at an array – what do you see?

Division - Year 3

÷ = signs and missing numbers

Continue using a range of equations as in year 2 but with appropriate numbers.

Grouping





Becoming more efficient using a numberline

Children need to be able to partition the dividend in different ways.



Sharing – 49 shared between 4. How many left over? Grouping – How many 4s make 49. How many are left over?

Place value counters can be used to support children apply their knowledge of grouping.

For example:

60 ÷ 10 = How many groups of 10 in 60? 600 ÷ 100 = How many groups of 100 in 600?

Division - Year 1	Division - Year 2	Division - Year 3
	8 ÷ 2 = 4	$68 \div 2 =$ $68 \div 2 =$ 60 8 $6 \text{ tens } \div 2 = 30$ $6 \text{ tens } \div 2 = 30$ $8 \text{ ones } \div 2 =$ $68 \div 2 = 30 + 4 = 34$ $96 \div 8 = 12$ $96 \div 8 = 12$ $8 \text{ tens } \div 8 = 1 \text{ ten } 16$ $16 \text{ ones } \div 8 = 2 \text{ ones } -16$ 0

Division - Year 4

Division - Year 5

e.g. 840 ÷ 7 = 120

700

100 groups

Formal Written Methods

from fig. 1 in Year 4)

E.g. 1435 ÷ 6

Jottings

 $7 \times 100 = 700$

 $7 \times 10 = 70$

7 x 20 = 140

÷ = signs and missing numbers

Continue using a range of equations as in year 3 but with appropriate numbers.

Sharing, Grouping and using a number line

Children will continue to explore division as sharing and grouping, and to represent calculations on a number line until they have a secure understanding. Children should progress in their use of written division calculations:

- Using tables facts with which they are fluent
- Experiencing a logical progression in the numbers they use, for example:
- 1. Dividend just over 10x the divisor, e.g. 84 ÷ 7
- 2. Dividend just over 10x the divisor when the divisor is a teen number, e.g. 173 ÷ 15 (learning sensible strategies for calculations such as 102 ÷ 17)

0

- 3. Dividend over 100x the divisor, e.g. $840 \div 7$
- 4. Dividend over 20x the divisor, e.g. $168 \div 7$

All of the above stages should include calculations with remainders as well as without.

Remainders should be interpreted according

to the context. (i.e. rounded up or down to relate

to the answer to the problem)

Formal Written Methods

Formal short division should only be introduced once children have a good understanding of division, its links with multiplication and the idea of 'chunking up' to find a target number (see use of number lines above)

Short division to be modelled for understanding using place value counters as shown below. Calculations with 2 and 3-digit dividends. E.g. fig 1





20 groups

Continued as shown in Year 4, leading to the efficient use of a

formal method. The language of grouping to be used (see link

840

Children begin to practically develop their understanding of how express the remainder as a decimal or a fraction. Ensure practical understanding allows children to work through this (e.g. what could I do with this remaining 1? How could I share this between 6 as well?)

Division - Year 6

÷ = signs and missing numbers

Continue using a range of equations but with appropriate numbers

Sharing and Grouping and using a number line

Children will continue to explore division as sharing and grouping, and to represent calculations on a number line as appropriate.

Quotients should be expressed as decimals and fractions

Formal Written Methods – long and short division E.g. 1504 ÷ 8



E.g. 2364 ÷ 15



Division - Year 4	Division - Year 5	Division - Year 6
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
$68 \div 2 = 34$ $75 \div 6 = \frac{12}{6 7 5} 6 \text{ tens } \div 6 = \frac{-6 0}{15} 12 \text{ ones } \div 6 = \frac{-12}{3} \text{ remainder}$ $75 \div 6 = 12 \text{ r } 3$	$930 \div 3 = 3 = 930 - 900 - 900 - 900 - 900 - 300 - 900 - 300 - 900 - 30$	
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	