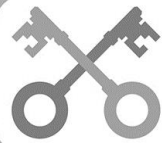


Progression in Calculation



St Peter's
Church of England (Aided) Primary School



A whole-school approach to teaching written methods

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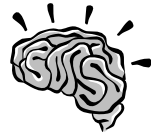
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“They didn’t do it like that in my day!”

Which is a more appropriate method when calculating?:

mental calculation ↘



or

written ↘



Can I do this in my head?

If I can't do it wholly in my head, what do I need to write down in order to help me calculate the answer?

Do I know the approximate size of the answer?

Will the written method I know be helpful?



This booklet has been produced to help with explaining modern methods of approaching maths.

Mental calculations

An ability to calculate mentally lies at the heart of numeracy. It is important to emphasise mental methods from the early years onwards, with regular opportunities to develop the different skills involved. Even when using written methods for calculations, we use our ability to calculate mentally.



These skills include:

- remembering number facts and recalling them without hesitation;
- using the facts that are known by heart to figure out new facts: for example, a fact like $8 + 6 = 14$ can be used to work out $80 + 60 = 140$, or $28 + 6 = 34$;
- understanding and using the relationships between the ‘four rules’ to work out answers and check results: for example, $24 \div 4 = 6$, since $6 \times 4 = 24$;
- drawing on a repertoire of mental strategies to work out calculations like $81 - 26$, 23×4 or 5% of £3000, with some thinking time;
- solving problems like: ‘Can I buy three bags of crisps at 35p each with my £1 coin?’ or: ‘Roughly how long will it take me to go 50 miles at 30 m.p.h.?’

When do children need to start recording?

It is important to encourage children to look first at the problem and then get them to decide which is the best method to choose – pictures, mental calculation with or without jottings, structured recording or calculator.

The idea behind building towards formal written methods, as opposed to teaching formal methods straight away, is to secure children's understanding of our number system and how the operations function.

Children are encouraged to make informal jottings to deal with tricky mental calculations, and are then led to number line work, before moving on to more formal methods of recording.



Addition +

- add
- total
- and
- plus
- increase
- together
- sum
- more

ADDITION

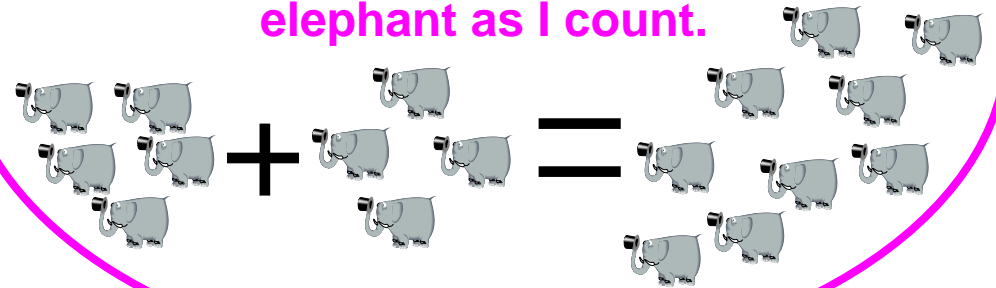
Adding using real objects.

$$U + U$$

$$5 + 4$$

Why use toy elephants instead of doing it in your head?

It helps me to understand the question! I can then count the total while pointing to each elephant as I count.



ADDITION

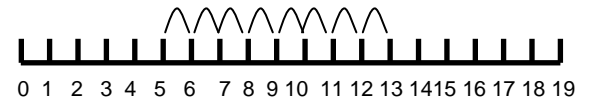
$$\begin{array}{r} U + U \\ 5 + 8 \end{array}$$

Using a number line for adding single digit numbers.

Why use a number line?

It helps me to show on paper what is going on in my head.

I've counted on 8 jumps and have got to 13!



ADDITION

Using an informal method by counting on in multiples of 10 with a number line

$$\begin{array}{r} \text{TU} + \text{TU} \\ 86 + 57 \end{array}$$

Why use a number line?

It helps me to show on paper what is going on in my head.



ADDITION

Using a number line to add too much and then subtract (*compensate*)

$$\begin{array}{r} \text{HTU} + \text{TU} \\ 754 + 96 \end{array}$$

Why are you subtracting when you should be adding?

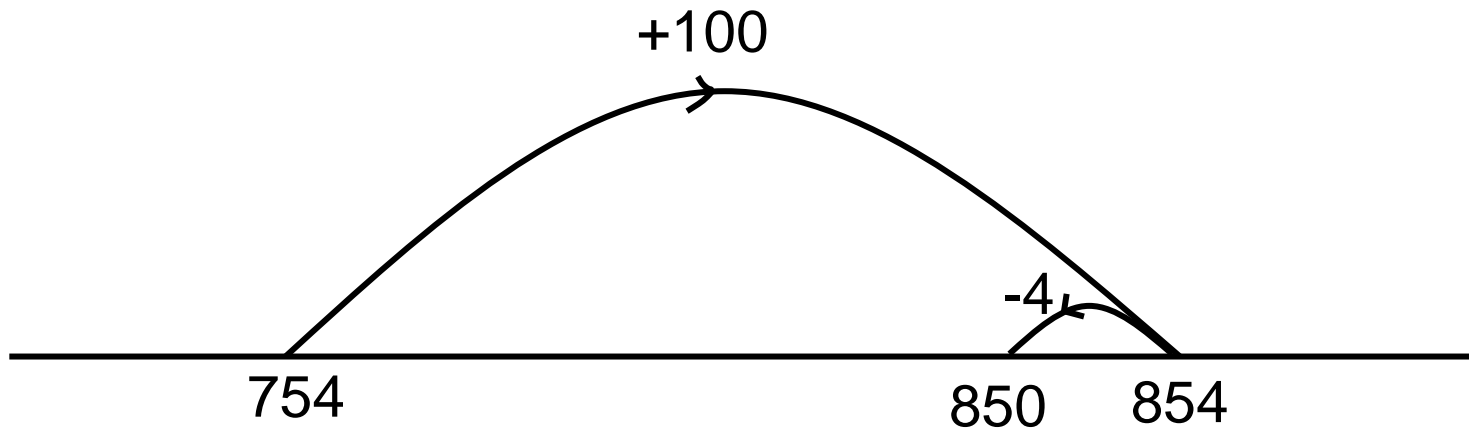
I noticed that 96 is close to 100. 100 is easier to add than 96 but that means I've added 4 too many. I need to subtract 4 from the number I reach.



$$\text{HTU} + \text{TU}$$
$$754 + 96$$



Start with the larger number 754. Add on 100 and then subtract 4.



$$754 + 96 = 850$$

ADDITION

$$\begin{array}{r} \text{HTU} + \text{TU} \\ 625 + 148 \end{array}$$

Expanded method: moving on from adding the *most significant digits* first to adding *least significant digits* first

Why switch to adding the units (*least significant digits*) first?

I know that I can add numbers in any order and the total will be the same. My teacher has told me that I need to practise adding the units first. The next method I will learn works this way. I must remember to line the numbers up in the correct columns.



HTU + HTU
625 + 148

Expanded method 1

Add *most significant digits* first:
(in this example, **hundreds**)

Add *least significant digits* first:
(in this example, **units**)

$$\begin{array}{r} 625 \\ + 148 \\ \hline 700 \\ 60 \\ 13 \\ \hline 773 \end{array} \quad \begin{array}{l} 600 + 100 \\ 20 + 40 \\ 5 + 8 \end{array}$$

$$\begin{array}{r} 625 \\ + 148 \\ \hline 13 \\ 60 \\ 700 \\ \hline 773 \end{array} \quad \begin{array}{l} 5 + 8 \\ 20 + 40 \\ 600 + 100 \end{array}$$

Mentally add
700 + 60 + 13 = 773

625 + 148 = 773

Expanded method 2

$$625 + 344 =$$

Partition and then add . . .

$$\begin{array}{r} 600 + 20 + 5 \\ + 300 + 40 + 4 \\ \hline 900 + 60 + 9 \end{array}$$

$$= 969$$

ADDITION

Using a standard (compact) method

HTU + HTU

587 + 475

Why do you say $80 + 70$
instead of $8 + 7$?

I need to remember the value
of each digit, so I know the
size of the numbers I am
adding and whether my
answer makes sense.



HTU + HTU
587 + 475

$$\begin{array}{r} 587 \\ + 475 \\ \hline 1062 \\ \text{11} \end{array}$$

$7 + 5 = 12$
Place the **2** in the units column and carry the **10** forward to the tens column.

$80 + 70 = 150$ then $+ 10$ (carried forward) which totals **160**.
Place **60** in the tens column and carry the **100** forward to the hundreds column.

$500 + 400 = 900$ then $+ 100$ which totals **1000**. Place this in the thousands column.

$$587 + 475 = 1062$$

Subtraction -

- difference
- decrease
- between
- take from
- subtract
- reduce
- fewer
- take away
- minus

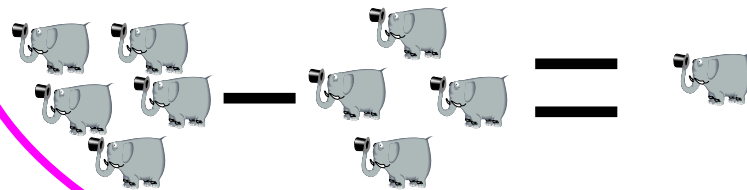
SUBTRACTION

$$\begin{array}{r} U - U \\ 5 - 4 \end{array}$$

Subtraction using real objects.

Why use toy elephants instead of doing it in your head?

It helps me to understand the question! In this example I take four elephants away and there is only one left!



SUBTRACTION

Using a number line for subtracting single digit numbers.

$$\begin{array}{r} U - U \\ 9 - 7 \end{array}$$

Why use a number line?

It helps me to show on paper what is going on in my head.

I've counted back 7 jumps and have got to 2!



SUBTRACTION

TU - TU
84 - 56

A

Counting on or counting back?

B

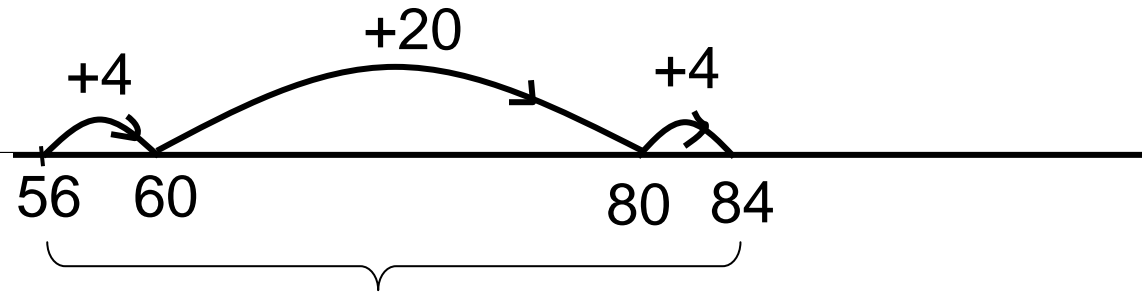
How do you decide whether to count on or count back?

If the numbers are close together like $203 - 198$ it's quicker to count on. If they're a long way apart like $203 - 5$ it's quicker to take away. Sometimes I count on because that's easier than taking away.



TU - TU
84 - 56

A

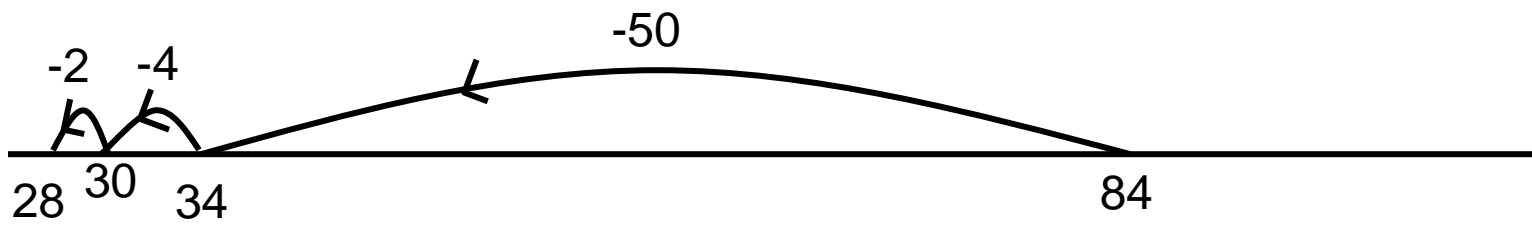


START HERE

Start by 'taking away' (crossing out) the 56.

Find the *difference* between the two numbers. Count on from 56 to 84.
 $20 + 4 + 4 = 28$

B



Partition 56 and count back (subtract) 50 and then 6.

START HERE

$84 - 56 = 28$

SUBTRACTION

HTU - HTU
954 - 586

Complementary addition

- A** Number line
- B** Written method

The number line method is very clear. Why do you use method B and write the numbers vertically?

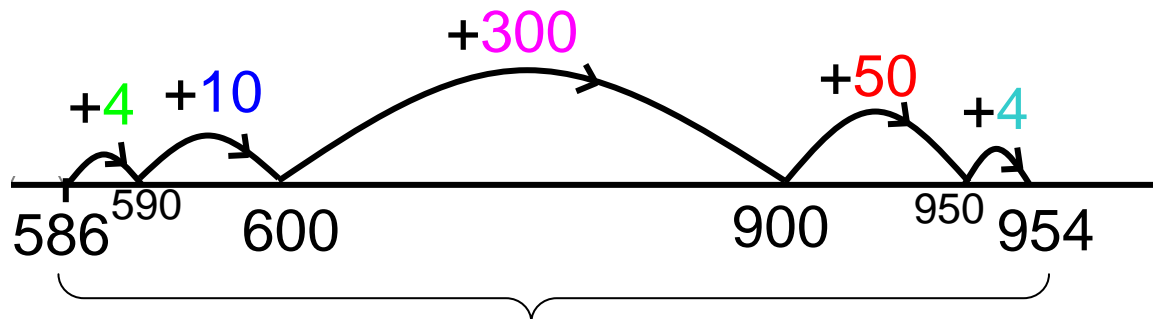
I could make mistakes. Method B helps me line the numbers up and see what I need to add.



HTU - HTU

954 - 586

A



Find the *difference* between the two numbers.
Count on from 586 to 954.
 $300 + 50 + 10 + 4 + 4 = 368$

B



- Count on to the next multiple of 10.
- Count on to the next multiple of 100.
- Count on in 100s.
- Count on to the larger number in the calculation which is 954.

$$\begin{array}{r} 954 \\ - 586 \\ \hline 4 \\ 10 \\ 300 \\ 50 \\ 4 \\ \hline 368 \end{array}$$

4 To make 590
10 To make 600
300 To make 900
50 To make 950
4 To make 954

954 - 586 = 368

SUBTRACTION

HTU - TU
154 - 37

Working towards a standard
(compact) method
(*decomposition*)

Why do you need to rearrange the numbers $50 + 4$ and rewrite them as $40 + 14$?

The whole number is 154. It is possible to subtract 7 but for this method I need to do one subtraction in each column. So I exchange one ten from the tens column for ten ones in the units column.



HTU - TU
154 - 37

Both these numbers are partitioned into their HTU parts, so we can do 3 easier calculations.

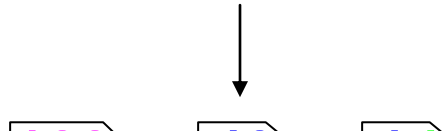
54 is the same value as 40 10 4.
 Now 7 can be subtracted from 14.

Subtract the units, tens, then hundreds.

$$\begin{array}{r} 100 + 50 + 4 \\ - \quad 30 + 7 \end{array}$$



$$\begin{array}{r} 100 + \cancel{50} + 4 \\ - \quad 30 + 7 \end{array}$$



$$\begin{array}{r} 100 + 40 + 14 \\ - \quad 30 + 7 \end{array}$$

$$100 + 10 + 7 = 117$$

$$100 - 0 = 100$$

$$40 - 30 = 10$$

$$14 - 7 = 7$$

Here the answers from each calculation are added to give the answer.

154 - 37 = 117

SUBTRACTION

Standard (compact) method
(*decomposition*)

HTU - HTU
754 - 286

Why didn't you use
the standard
method straight
away?

Because all the stages I
have learnt before have
really helped me
understand exactly
what I'm doing.



HTU - HTU

754 - 286

54 is the same value as
 $\boxed{40} + \boxed{10} + \boxed{4}$.
 Now 6 can be subtracted
 from 14.

740 is the same value as
 $\boxed{600} + \boxed{100} + \boxed{40}$.
 Now 80 can be
 subtracted from 140.

Or, more efficiently
 the *standard method*.

$$\begin{array}{r}
 700 + \overset{40}{\cancel{50}} + \overset{1}{4} \\
 - 200 + 80 + 6
 \end{array}$$

$$\begin{array}{r}
 600 + \overset{1}{\cancel{700}} + 40 + 14 \\
 - 200 + 80 + 6
 \end{array}$$

$$\begin{array}{r}
 600 + 140 + 14 \\
 - 200 + 80 + 6
 \end{array}$$

$$400 + 60 + 8 = 468$$

$$\begin{array}{r}
 \overset{6}{\cancel{7}}\overset{1}{\cancel{5}}\overset{4}{4} \\
 - 286 \\
 \hline
 468
 \end{array}$$

$$754 - 286 = 468$$

Multiplication x

- multiplied by
- multiply
- product
- groups of
- lots of
- times table
- times

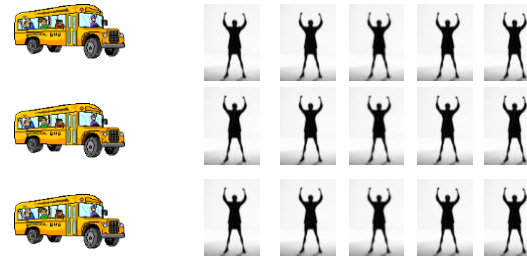
MULTIPLICATION

Introducing multiplication
in an array.

$$\begin{array}{r} \text{TU} \times \text{U} \\ 3 \times 5 \end{array}$$

How is
multiplication the
same as repeated
addition?

The array helps me see how many lots
of a number there are. Let's say there
were 3 buses with 5 people on each.



I can count 15 people!



MULTIPLICATION

Introducing multiplication on a number line

$$\begin{array}{r} \text{TU X U} \\ 14 \times 5 \end{array}$$

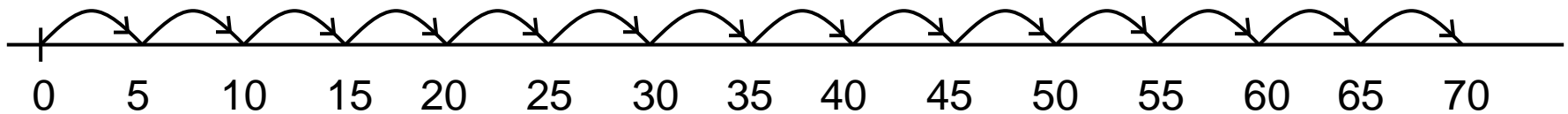
How is multiplication the same as repeated addition?

The number line helps me see each group of 5 clearly.
If I add 5 fourteen times, that is the same as 5 multiplied by 14 (5×14). I can make 14 individual jumps of 5 along the number line, or 1 jump of 5×10 and 1 jump of 5×4 . Table facts will help me do this more quickly.

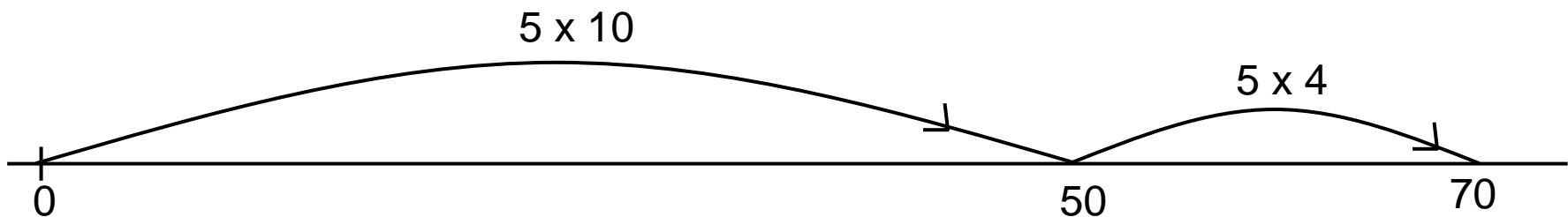


TU x U
14 x 5

The number line shows 5 multiplied by 14. This is equal to 14 multiplied by 5 (14 jumps of 5 on the number line).



Multiplication is *repeated addition*.



Using table facts to make bigger jumps is more efficient.

14 x 5 = 70

GRID MULTIPLICATION

TU X U
14 x 5

Why do you
partition the
numbers into tens
and units?

It doesn't take
long!
I can see what I
have to multiply
very easily.



TU X U

14 x 5

Partition TU number into tens and units parts.

14 becomes 10 and 4

	14 x 5		
X	10	4	
5	50	20	70

50 comes from multiplying 10 by 5. It is called a *part-product*.

20 comes from multiplying 4 by 5. Another *part-product*.

The *part-products* are totalled to give the *final product* or answer of 70.

$$14 \times 5 = 70$$

GRID MULTIPLICATION

TU X TU
46 x 32

Isn't it difficult to multiply 40 by 30?

I know that 30 is 3×10 and multiplying by 10 is easy so I do $40 \times 3 \times 10 = 120 \times 10 = 1200$.

You've got to do a lot of calculations – don't you get confused?



The layout of the grid helps me organise what I have to do. I like this method.

TU X TU
46 x 32

Both numbers are *partitioned* into their tens and units parts,

46 becomes **40**
 and **6** and **32**
 becomes **30**
 and **2**.

46 x 32

X	40	6	
30	1200	180	1380
2	80	12	92
			1472

The *part products* are added in stages to give the final *product* or answer of 1472.

46 x 32 = 1472

MULTIPLICATION

Grid method, **Expanded method**
and **Compact method**

$$\begin{array}{r} \text{TU X U} \\ 23 \times 8 \end{array}$$

What are the brackets for in the expanded method?

They remind me which numbers I am multiplying.
I also have to remember to line the numbers up as hundreds, tens and units.

Why do you multiply 3 by 8 first in the compact method?
In all the other methods I've noticed that you've multiplied the tens number first!



I multiply the units first so I can carry forward any tens I need to!
This method is very quick but I have to remember to add on any numbers I carry forward.

TU X U

23 x 8

GRID METHOD

X	20	3	
8	160	24	184

EXPANDED METHOD

20 multiplied by 8 equals 160.
3 multiplied by 8 equals 24.

Final product from totalling the *part-products*.

$$\begin{array}{r}
 \text{HTU} \\
 23 \\
 \times 8 \\
 \hline
 160 \quad (20 \times 8) \\
 24 \quad (3 \times 8) \\
 \hline
 184
 \end{array}$$

COMPACT METHOD

(short multiplication)

$$\begin{array}{r}
 \text{HTU} \\
 23 \\
 \times 8 \\
 \hline
 184 \\
 \hline
 2
 \end{array}$$

3 multiplied by 8 equals 24 (the first *part product*).

2 is the 2 tens that need to be carried forward and added to the next *part product*.

20 multiplied by 8 equals 160 (2nd *part product*), plus the 2 tens equals 180.

The digits are put in the correct columns, to give the answer 184.

23 x 8 = 184

MULTIPLICATION

Grid method, **Expanded method**
and **Compact method**

$$\begin{array}{r} \text{TU} \times \text{TU} \\ 46 \times 32 \end{array}$$

I recognise the long multiplication method. How do you multiply 46 by 30?

Well!... I know that 46×30 is the same as $46 \times 3 \times 10$. I know my answer will end in zero when I multiply this whole number by 10. So... I put the zero in first. Then I multiply 46×3 using the short multiplication method.



TU X TU

46 x 32

GRID METHOD

X	40	6	
30	1200	180	1380
2	80	12	92
			1472

EXPANDED METHOD

The 4 *part products* are set out vertically underneath the calculation.

Part products totalled to give final product.

$$\begin{array}{r}
 46 \\
 \times 32 \\
 \hline
 1200 \quad (40 \times 30) \\
 180 \quad (6 \times 30) \\
 80 \quad (40 \times 2) \\
 12 \quad (6 \times 2) \\
 \hline
 1472
 \end{array}$$

COMPACT METHOD

(long multiplication)

$$\begin{array}{r}
 46 \\
 \times 32 \\
 \hline
 92 \\
 1 \\
 \hline
 380 \\
 11 \\
 \hline
 1472
 \end{array}$$

1. First multiply the lower unit by the upper unit (2x6).
2. Next multiply the lower unit by the upper ten (2x4) where the 4 represents 4 X 10 = 40
3. Then start a new row with a 0 as a place holder as you are multiplying by a ten.
4. Multiply the lower ten by the upper unit (3x6)
5. Next multiply the lower ten by the upper ten (3x4)
6. Finally add the two rows to get to your final answer.

$$46 \times 32 = 1472$$

HEALTH WARNING!!!

Children should not be moved on to this method until their understanding of place value is secure.



Division ÷

- divided by
- share
- divide
- share equally
- divisible
- by
- divide into
- group

DIVISION

$$TU \div U$$

$$48 \div 8$$

Introducing division from multiplication

I don't understand how multiplication is related to division.

Well multiplication and division are the inverse of each other.

If I know . . .
 $6 \times 8 = 48$

then . . .
 $48 \div 8 = 6$
And $48 \div 6 = 8$



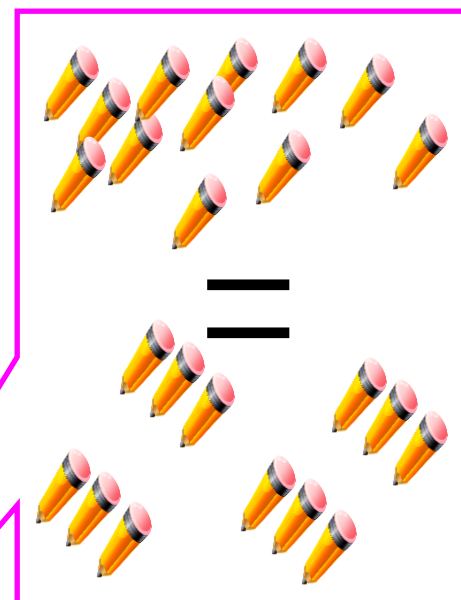
DIVISION

$$TU \div U$$
$$12 \div 3$$

Dividing by putting real objects into groups.

Why are you using pencil to do this problem?

It helps me understand the problem. Let's say there were 12 pencils and 4 children. I shared the pencils amongst the children.



There are 4 per child!



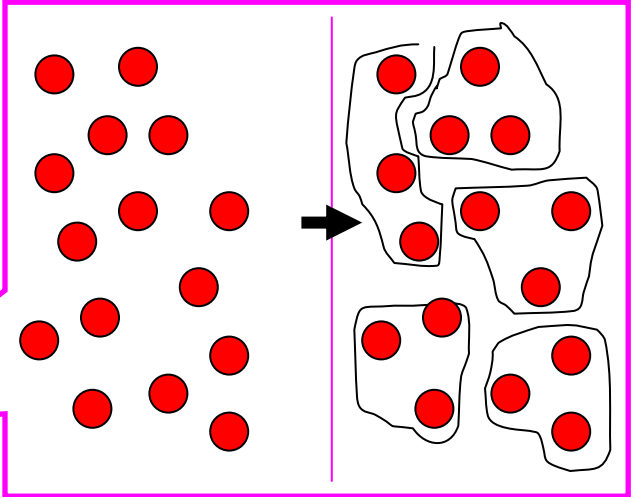
DIVISION

$$TU \div U$$
$$15 \div 3$$

Introducing division by grouping.

Why are you drawing the objects?

I need to see how many groups of 3 there are in 15. I can use pictures or dots to help me.



There's 5 groups!



DIVISION

TU \div U

29 \div 3

Introducing division on a number line

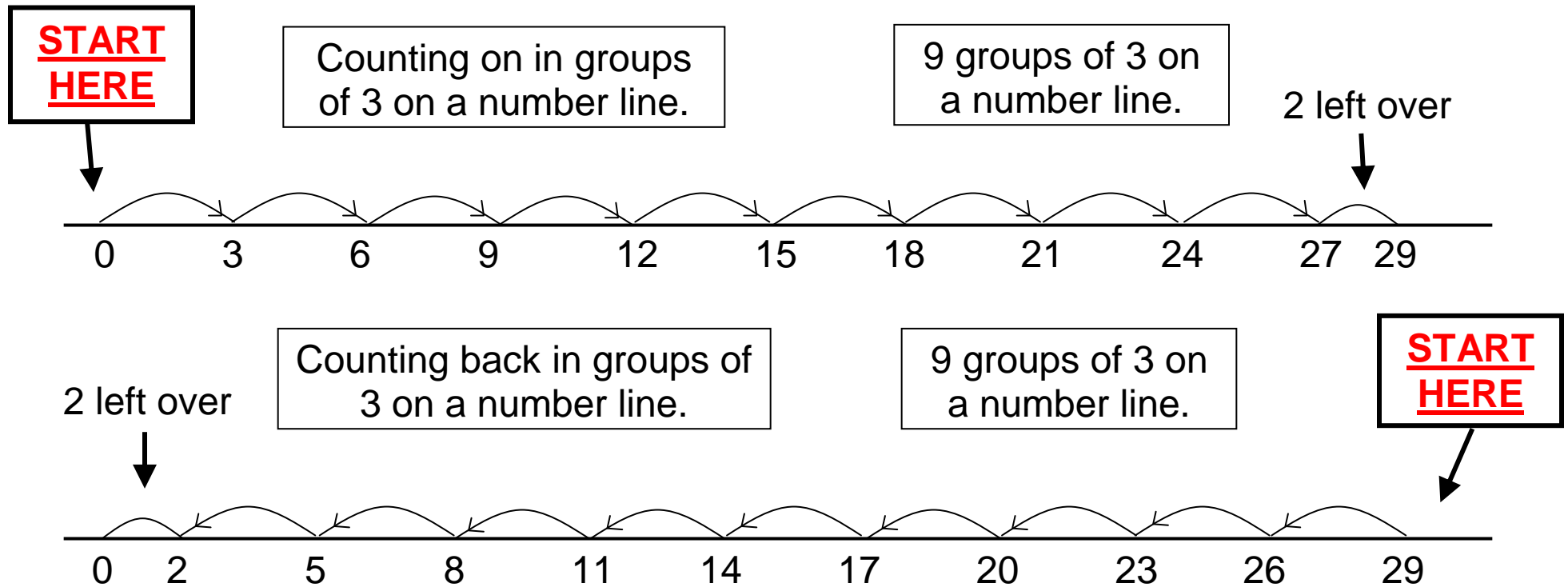
Why are you adding on one line and subtracting on the other? And what has subtraction got to do with division?

I need to see how many groups of 3 there are in 29, so I either add on or take away groups of 3 until I can't add or take any more. Using the subtraction method will help me later on.



$$TU \div U$$

$$29 \div 3$$



There are 9 groups of 3 in 29, with 2 left over.

$$29 \div 3 = 9 \text{ r}2$$

DIVISION

TU \div U

72 \div 5

Chunking on a number line

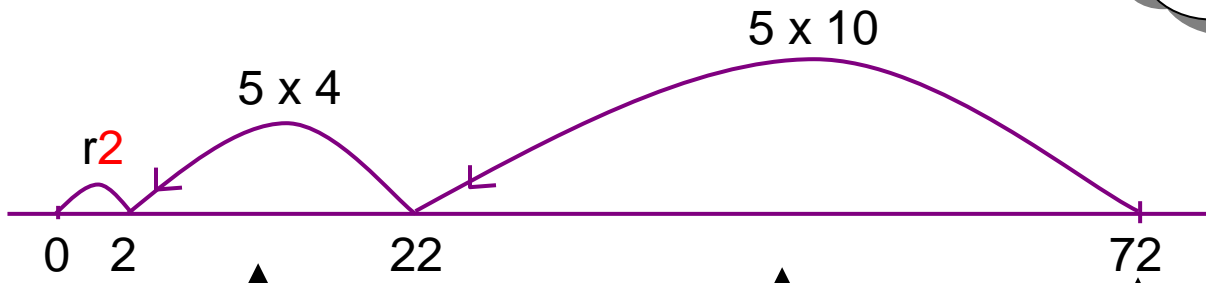
I've never heard of chunking before! How does this help with division?

If I can, I try to take out 10 groups of the number I'm dividing by. This is a big chunk and makes the calculation easier. But I can take out chunks that are any number of groups.



TU ÷ U
72 ÷ 5

Numberlines can be **vertical** or **horizontal**.



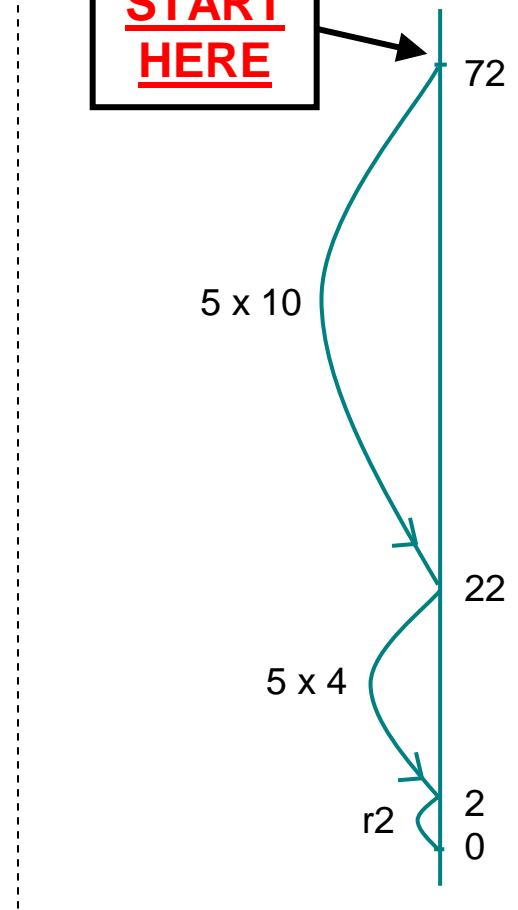
Subtract 4 groups of 5 (20) from 22 to land on 2.

Subtract 10 groups of 5 (50) from 72 to land on 22.

14 groups of 5 subtracted altogether.

START
HERE

START
HERE



2 left!
 This is the *remainder*.

72 ÷ 5 = 14 r2

DIVISION BY CHUNKING

HTU \div U

256 \div 7

How do you decide what size chunk to subtract?

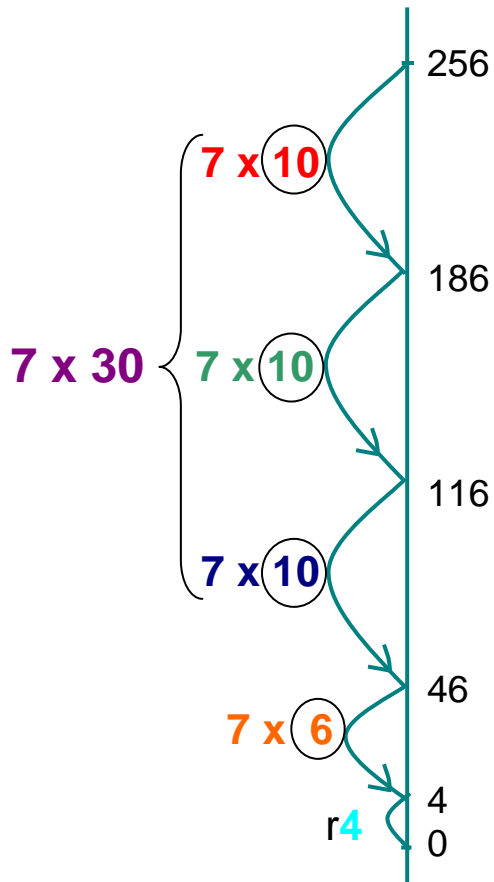
I look for chunks of 10 first. If I take bigger chunks it makes the calculation quicker and easier. Method **(C)** is shorter and more efficient than **(B)**.



HTU ÷ U

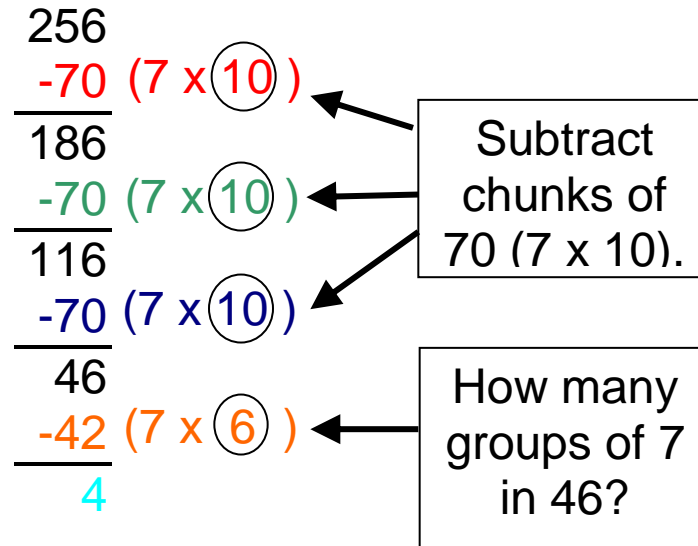
$$256 \div 7$$

(A)



How many groups of 7 in 256?

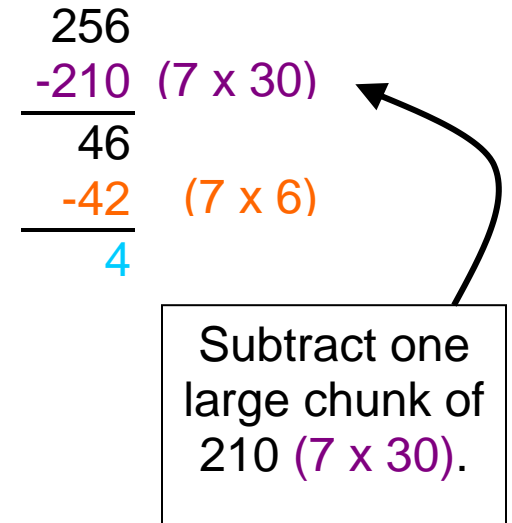
(B)



Total the numbers of groups of 7.

$$10 + 10 + 10 + 6 = 36$$

(C)



36 groups of 7 have been subtracted and there is 4 left over.

$$256 \div 7 = 36 \text{ r}4$$

SHORT COMPACT DIVISION

Isn't it easier to say
'how many 3s in 4?'

I need to remember the value
of each digit so I know
whether my answer makes
sense. I will only use this
method when I am confident
with mental and chunking
methods of division.



HTU ÷ U

471 ÷ 3

$$\begin{array}{r} 1 \\ 3 \overline{) 471} \end{array}$$

Q: What is the largest number of hundreds that will divide exactly by 3?

A: 300 divided by 3 = 100. This leaves 100 which is exchanged for ten tens in the tens column.

$$\begin{array}{r} 15 \\ 3 \overline{) 471} \end{array}$$

Q: What is the largest number of tens that will divide exactly by 3?

A: 150 divided by 3 = 50. This leaves 20 which is exchanged for 20 units in the units column.

$$\begin{array}{r} 157 \\ 3 \overline{) 471} \end{array}$$

Q: What is the largest number of units that will divide exactly by 3?

A: 21 divided by 3 = 7

471 ÷ 3 = 157

CALCULATIONS IN CONTEXT

All the methods in this booklet support children in using their mental and written skills to solve calculations. Children need to be encouraged to use the method that they understand and can use confidently.

It is important that children are able to choose the most appropriate method for the calculation. For example:

4003 - 3998

These numbers are very close together and so counting up on a number line (actual or imagined) would be the most efficient method.

200 ÷ 4

Dividing by 4 is the same as halving and halving again. As it is easy to halve 200 and easy to halve 100, this would be the most efficient method.

Using and applying appropriate skills is very important, when calculations are needed to solve a problem.

4 C.DS at £2.99 – how much altogether?

£2.99 is almost £3.00 and so round up, multiply, then adjust:

$$4 \times £3.00 = £12.00$$

$$£12.00 - 4p = £11.96$$

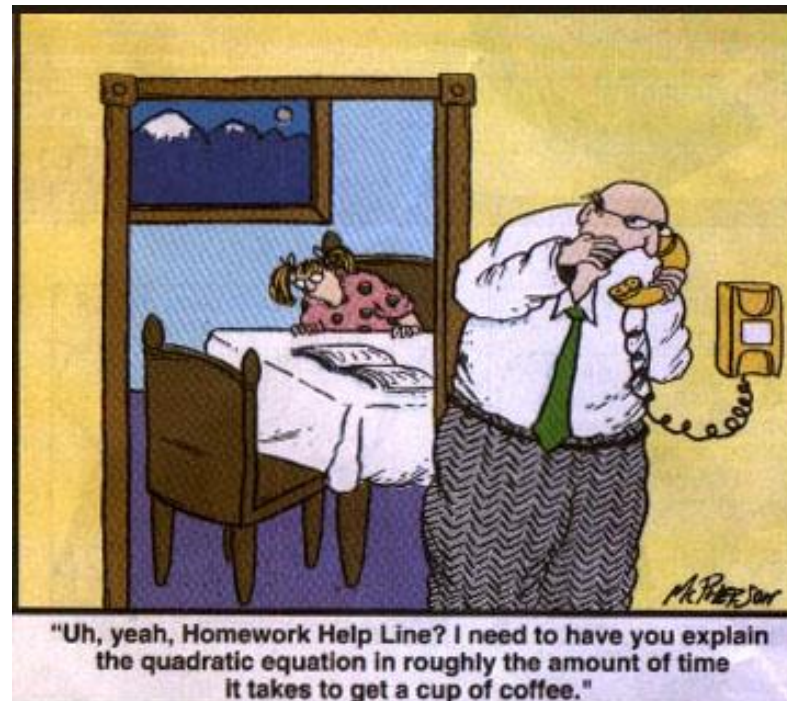
GLOSSARY

These are definitions for use with this booklet. There may be other applications for these words, not covered in this booklet.

Arrays	An arrangement of objects, e.g. counters, into columns and rows.
Chunking	<p>In division, chunking is where multiples of the divisor (the number you are dividing by) are repeatedly subtracted. Initially, children subtract several chunks, but with practice they should look for the biggest multiples of the divisor that they can find to subtract.</p> <p>97 ÷ 9</p> $ \begin{array}{r} 6 \overline{)196} \\ \underline{- 60} \quad 6 \times 10 \\ 136 \\ \underline{- 60} \quad 6 \times 10 \\ 76 \\ \underline{- 60} \quad 6 \times 10 \\ 16 \\ \underline{- 12} \quad 6 \times 2 \\ 4 \quad 32 \\ \text{Answer: } \quad 32 \text{ R } 4 \end{array} $ <p>In the above example, ‘chunks’ of 6 are being subtracted, initially in ‘chunks’ of 10.</p>
Compact method	<p>Leads on from an expanded method. A compact method is tidier, quicker, not partitioned and starts with the least significant digit.</p> $ \begin{array}{r} 217 \\ + 147 \\ \hline 364 \\ \hline \uparrow \end{array} $

Decomposition	<p>A vertical method of subtraction. This method involves taking an amount from a higher place value and giving it to a lower place value, in the top number. The top number is then re-written so that the overall value of the number does not change. $700 + 40 + 6$ is equal to $700 + 30 + 16$.</p> <p>The number in the top line is broken down to aid calculation. Example: For $719 - 297$ the calculation is written as</p> $\begin{array}{r} 6719 \\ -297 \\ \hline 422 \end{array}$
Expanded method	<p>A move to a layout showing the addition of the hundreds to the hundreds, the tens to the tens and the ones to the ones, separately. This will lead on to a compact method.</p> $\begin{array}{r} 700 + 50 + 6 \\ + \underline{200 + 20 + 2} \\ 900 + 70 + 8 \end{array}$ $\begin{array}{r} 113 \\ + \underline{147} \\ 10 \\ 50 \\ \underline{200} \\ \underline{260} \end{array}$
Informal written methods	Pencil and paper methods for supporting, recording or explaining calculations. When multiplying, this might be the grid method.
Inverse	The inverse operation of addition is subtraction (visa versa). The inverse of multiplication is division (visa versa).

Multiples	<p>The result of multiplying by a whole number.</p> <p>Examples:</p> $4 \times 5 = 20$ <p>20 is a multiple of 4 and also of 5.</p> <p>Some multiples of 2 are: 2,6,8, 200, 360...</p>
Partition	<p>To split a number into component parts. Example: the two-digit number 38 can be partitioned into $30 + 8$.</p>
Product	<p>The result of multiplying. For example: The product of 3 and 6 is 18.</p>
Significant digits	<p>The digit that has the highest value. E.g. in 24, the 2 is the most significant digit as it is 2 tens, whereas 4 is 4 ones or 4 units.</p>
Standard written method	<p>This is where an efficient written method has been developed, which is applied universally. It could be partitioned or expanded.</p> $\begin{array}{r} 217 \\ + 147 \\ \hline 364 \\ \uparrow \end{array}$ $700 + 50 + 6$ $+ \underline{200 + 20 + 2}$ $900 + 70 + 8$



J Nicholls and T Benyon 09/03/2018
(Adapted from 'They Didn't Do it Like That in My Day' by Brighton and Hove Numeracy Team)