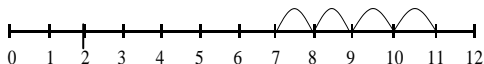
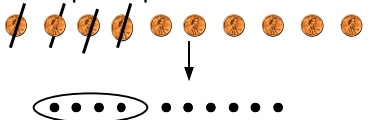

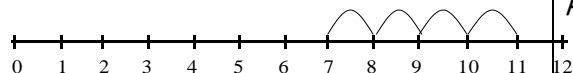

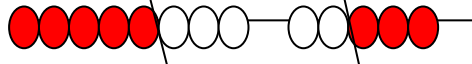
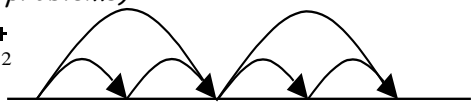




## Year 1

Addition	Subtraction	Multiplication (x2, x5, x10)	Division
<p><b><u>+ = signs and missing numbers</u></b></p> <p> <math>3 + 4 = \square</math>      <math>\square = 3 + 4</math>  <math>3 + \square = 7</math>      <math>7 = \square + 4</math>  <math>\square + 4 = 7</math>      <math>7 = 3 + \square</math>  <math>\square + \nabla = 7</math>      <math>7 = \square + \nabla</math> </p> <p>Promoting covering up of operations and numbers. Number bonds to 10 secure using this method.</p> <p><b><u>Number lines (numbered)</u></b></p> <p style="text-align: center;"><math>7 + 4</math></p>  <p>Recording by - drawing jumps on prepared lines</p> <ul style="list-style-type: none"> <li>○ constructing own lines</li> </ul> <p>(Teacher model number lines with missing numbers)</p> <p><i>(Teachers model jottings appropriate for larger numbers)</i></p>	<p><b><u>Pictures / marks</u></b></p> <p>Sam spent 4p. What was his change from 10p?</p>  <p><b><u>- = signs and missing numbers</u></b></p> <p> <math>7 - 3 = \square</math>      <math>\square = 7 - 3</math>  <math>7 - \square = 4</math>      <math>4 = \square - 3</math>  <math>\square - 3 = 4</math>      <math>4 = 7 - \square</math>  <math>\square - \nabla = 4</math>      <math>4 = \square - \nabla</math> </p> <p><b><u>Number lines (numbered)</u></b></p> <p style="text-align: center;"><math>11 - 7</math> (Counting back)</p>  <p>The difference between 7 and 11 (Counting up)</p>  <p>Recording by - drawing jumps on prepared lines - constructing own lines</p> <p>(Teachers model jottings appropriate for larger numbers)</p>	<p><b><u>Pictures and symbols</u></b></p> <p>There are 3 sweets in one bag. How many sweets are there in 5 bags?</p>  <p>Use of bead strings to model groups of.</p>  <p><b><u>Arrays and repeated addition</u></b></p> <p style="text-align: center;"> <math>\bullet \bullet \bullet \bullet</math>      <math>4 \times 2</math> or <math>4 + 4</math>  <math>\bullet \bullet \bullet \bullet</math>  <math>2 \times 4</math> </p> <p>or repeated addition</p> <p style="text-align: center;"><math>2 + 2 + 2 + 2</math></p> <p><i>(Recording on a number line modelled by the teacher when solving problems)</i></p> 	<p><b><u>Pictures / marks</u></b></p> <p>Children use pictures or shapes to share quantities.</p>  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <math>8 \div 2 = 4</math> </div> <p><i>Teacher uses objects/ pictures to model division problems.</i></p> <p>12 children get into teams of 4 to play a game. How many teams are there?</p> 

**Year 2**

**Addition**

+ = signs and missing numbers  
Continue using a range of equations as in Year 1 but with appropriate, larger numbers.  
Extend to  
 $14 + 5 = 10 + \square$

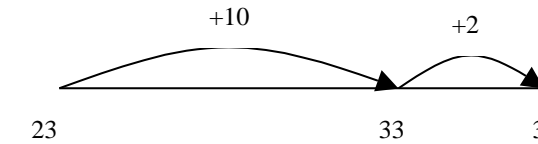
and adding three numbers  
 $32 + \square + \square = 100$     $35 = 1 + \square + 5$

Partition into tens and ones and recombine

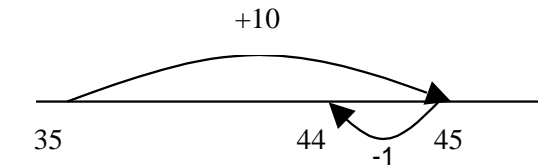
$$\begin{aligned} 12 + 23 &= 10 + 2 + 20 + 3 \\ &= 30 + 5 \\ &= 35 \end{aligned}$$

refine to partitioning the second number only:

$$\begin{aligned} 23 + 12 &= 23 + 10 + 2 \\ &= 33 + 2 \\ &= 35 \end{aligned}$$



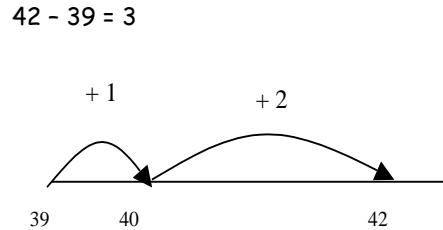
Add 9 or 11 by adding 10 and adjusting by 1  
 $35 + 9 = 44$



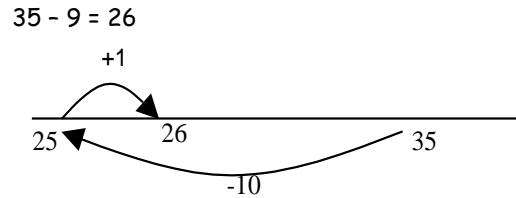
**Subtraction**

- = signs and missing numbers  
Continue using a range of equations as in Year 1 but with appropriate numbers.  
Extend to  $14 + 5 = 20 - \square$

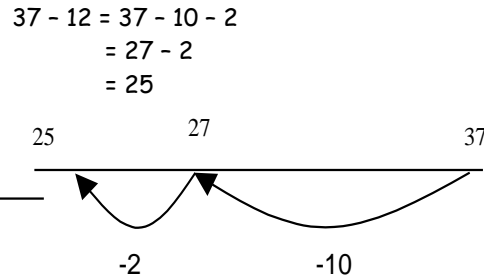
Find a small difference by counting up



Subtract 9 or 11. Begin to add/subtract 19 or 21



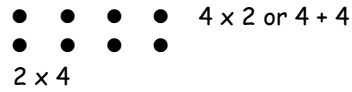
Use known number facts and place value to subtract (partition second number only)



**Multiplication (x 2, x 3, x 5, x 10)**

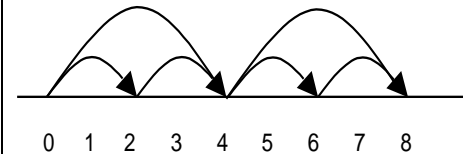
x = signs and missing numbers  
 $7 \times 2 = \square$     $\square = 2 \times 7$   
 $7 \times \square = 14$     $14 = \square \times 7$   
 $\square \times 2 = 14$     $14 = 2 \times \square$   
 $\square \times \nabla = 14$     $14 = \square \times \nabla$

Arrays and repeated addition



or repeated addition

$$2 + 2 + 2 + 2$$



Doubling multiples of 5 up to 50

$$15 \times 2 = 30$$

Partition

~~$15 \times 2$~~   
 $20 + 10 = 30$

OR

x	10	5
2	20	10

**Division**

÷ = signs and missing numbers  
 $6 \div 2 = \square$     $\square = 6 \div 2$   
 $6 \div \square = 3$     $3 = 6 \div \square$   
 $\square \div 2 = 3$     $3 = \square \div 2$   
 $\square \div \nabla = 3$     $3 = \square \div \nabla$

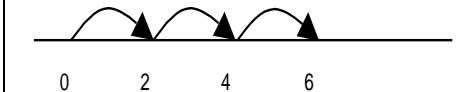
Understand division as sharing and grouping

Sharing - 6 sweets are shared between 2 people. How many do they have each?



$6 \div 2$  can be modelled as:

Grouping - There are 6 sweets. How many people can have 2 each? (How many 2's make 6?)



## Year 3

### Addition

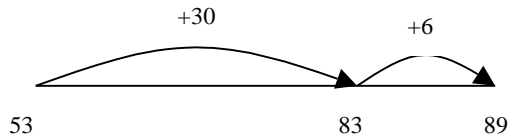
**+ = signs and missing numbers**

Continue using a range of equations as in Year 1 and 2 but with appropriate, larger numbers.

**Partition into tens and ones and recombine**

Partition both numbers and recombine.  
Refine to partitioning the second number only e.g.

$$\begin{aligned} 36 + 53 &= 53 + 30 + 6 \\ &= 83 + 6 \\ &= 89 \end{aligned}$$



**Add a near multiple of 10 to a two-digit number**

Continue as in Year 2 but with appropriate numbers  
e.g.  $35 + 19$  is the same as  $35 + 20 - 1$ .

**Formal written method**

Progress from no crossing of boundaries to crossing of boundary up to 3 digits.

$83 + 42 = 125$	83
$80 + 3$	+ 42
$+40 + 2$	120
$120 + 5 = 125$	5
	125

$285 + 73 = 358$

$285$	
$+73$	
8	
150	
200	
358	

Show expanded and compact forms

### Subtraction

**- = signs and missing numbers**

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

**Find a small difference by counting up**

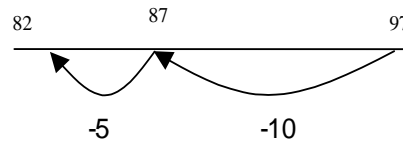
Continue as in Year 2 but with appropriate numbers e.g.  $102 - 97 = 5$ .  
*Calculate change using a number line- when the numbers are looking at you, use a number line.*

**Subtract mentally a 'near multiple of 10' to or from a two-digit number**

Continue as in Year 2 but with appropriate numbers e.g.  $78 - 49$  is the same as  $78 - 50 + 1$

**Use known number facts and place value to subtract**

Continue as in Year 2 but with appropriate numbers e.g.  
 $97 - 15 =$



72

**Formal written method**

**Columnar subtraction to subtract numbers with up to three digits:**

Progress from no crossing of boundaries to crossing of boundary.

$234 - 88 = 146$



Calculations	234
	- 88
	146

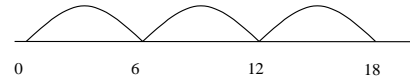
### Multiplication (x2,x5,x10,x3,x4,x8)

**x = signs and missing numbers**

Continue using a range of equations as in Year 2 but with Y3 appropriate numbers.

**Number lines**

$6 \times 3$



**Arrays and repeated addition**

Continue to understand multiplication as repeated addition and continue to use arrays (as in Year 2).

Doubling multiples of 5 up to 50  
 $35 \times 2 = 70$

**Partition**

x	30	5
2	60	10

Use known/ related facts and place value to carry out simple multiplications TU X U

Use the same method as above (partitioning), e.g.  $32 \times 3 = 96$

x	30	2
3	90	6

### Division

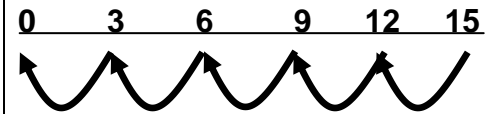
**÷ = signs and missing numbers**

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

**Understand division as sharing and grouping**

$15 \div 3$  can be modelled as:  
Sharing - 15 shared between 3 (see Year 2 diagram)

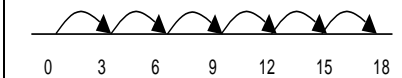
OR



Or

$18 \div 3$  can be modelled as:  
Sharing - 18 shared between 3 (see Year 2 diagram)

Grouping - How many 3's make 18?

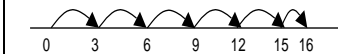


### Remainders

$16 \div 3 = 5 \text{ r}1$   
Sharing - 16 shared between 3, how many left over?

Grouping - How many 3's make 16, how many left over?

e.g.



## Year 4

### Addition

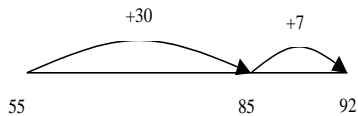
**+ = signs and missing numbers**

Continue using a range of equations as in Year 1 and 2 but with curriculum appropriate numbers.

**Partition into tens and ones and recombine**

Either partition both numbers and recombine or partition the second number only e.g.

$$\begin{aligned} 55 + 37 &= 55 + 30 + 7 \\ &= 85 + 7 \\ &= 92 \end{aligned}$$



**Add the nearest multiple of 10, then adjust**

Continue as in Year 2 and 3 but with appropriate numbers e.g. 163 + 29 is the same as 163 + 30 - 1

**Formal written methods**

$$358 + 73 = 431$$

<p>either</p> $\begin{array}{r} 300+50+8 \\ + 70+3 \\ \hline 300+120+11 = 431 \end{array}$	or	$\begin{array}{r} 358 \\ + 73 \\ \hline 11 \\ 120 \\ 300 \\ \hline 431 \end{array}$
--	----	---

$$\begin{array}{r} 3587 \\ + 675 \\ \hline 4262 \\ 111 \end{array}$$

The formal, efficient method of columnar addition will involve crossing of boundaries (at the tens, hundreds and/or

### Subtraction

**- = signs and missing numbers**

Continue using a range of equations as in Year 1 and 2 but with appropriate numbers.

Find a small difference by counting up e.g. 5003 - 4996 = 7

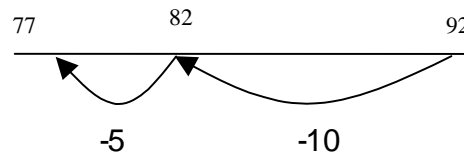
This can be modelled on an empty number line (see complementary addition below).

**Subtract the nearest multiple of 10, then adjust.**

Continue as in Year 2 and 3 but with appropriate numbers.

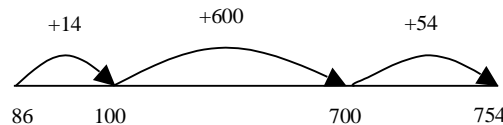
**Use known number facts and place value to subtract e.g.**

$$92 - 15 = 77$$

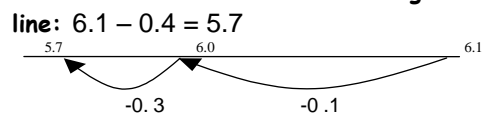


**Complementary addition**

$$754 - 86 = 668$$



**Calculate decimal differences using a number line: 6.1 - 0.4 = 5.7**



### Multiplication (all up to 12 x 12)

**x = signs and missing numbers**

Continue using a range of equations as in Year 2 but with curriculum appropriate numbers

**Partition**

$$23 \times 4 = 92$$

$$\begin{aligned} 23 \times 4 &= (20 \times 4) + (3 \times 4) \\ &= (80) + (12) \\ &= 92 \end{aligned}$$

OR

Use the grid method of multiplication (as below)

**Grid method**

23 x 7 is approximately 20 x 10 = 200

x	20	3
7	140	21

x	70	2
30	2100	60
8	560	16

Moving to expanded, then compact methods of multiplication once conceptually secure (P.V).

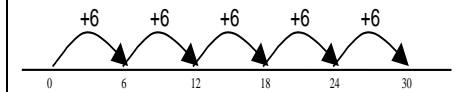
### Division

**÷ = signs and missing numbers**

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

**Sharing and grouping**

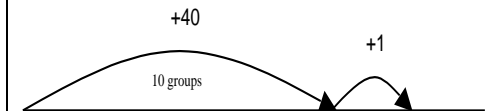
30 ÷ 6 can be modelled as: grouping - groups of 6 taken away and the number of groups counted e.g.



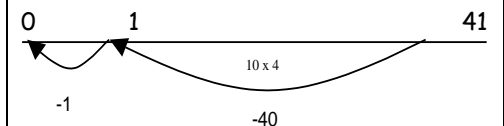
sharing - sharing among 6, the number given to each person

Remainders

$$41 \div 4 = 10 \text{ r}1$$



OR



$$\text{OR } 41 = (10 \times 4) + 1$$

**Formal written method**

72 ÷ 5 lies between 50 ÷ 5 = 10 and 100 ÷ 5 = 20

$$\begin{array}{r} 72 \\ - 50 \quad (10 \text{ groups}) \text{ or } (10 \times 5) \\ \hline 22 \\ - 20 \quad (4 \text{ groups}) \text{ or } (4 \times 5) \\ \hline 2 \end{array}$$

Answer : 14 remainder 2

thousands). Take a systematic approach to teaching this looking at crossing each boundary in turn before mixed practice.

Extend to decimals in the context of money (vertically)

$$£ 2.50 + £ 1.75 = £ 4.25$$

$$£ 2.50$$

$$+ £ 1.75$$

$$£ 4.25$$

1

(Revert to expanded methods if the children experience any difficulty.)

### Subtraction with at least four digits using formal method of columnar subtraction

For instance,  $6467 - 2684 = 3783$

Using expanded column subtraction where children experience difficulty with decomposition and need to 'see' this.

See NC appendix for e.g calculations

Add and subtract up to 4 digits

$$\begin{array}{r} 32 \\ \times 24 \\ \hline 8 \quad (4 \times 2) \\ 120 \quad (4 \times 30) \\ 40 \quad (20 \times 2) \\ 600 \quad (20 \times 30) \\ \hline 768 \end{array}$$

Place value must be secure before children move on to short methods of multiplication.

### Short multiplication

$24 \times 6$  becomes

$$\begin{array}{r} 24 \\ \times 6 \\ \hline 144 \\ 2 \end{array}$$

Answer: 144

### HTU $\div$ U

Can progress from no remainder to remainders. Where remainders are involved, care needs to be taken to ensure they are interpreted correctly in context of problems.

$256 \div 7$  lies between  $210 \div 7 = 30$  and  $280 \div 7 = 40$

$$\begin{array}{r} 256 \\ - 70 \quad (10 \text{ groups) or } (10 \times 7) \\ \hline 186 \\ - 140 \quad (20 \text{ groups) or } (20 \times 7) \\ \hline 46 \\ - 42 \quad (6 \text{ groups) or } (6 \times 7) \\ \hline 4 \quad (36 \text{ groups) or } (36) \end{array}$$

Answer: 36 remainder 4

## Year 5 and Year 6 (upper KS2)

### Addition

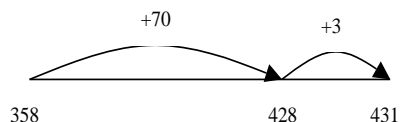
#### + = signs and missing numbers

Continue using a range of equations as in Year 1 and 2 but with appropriate numbers.

#### Partition into hundreds, tens and ones and recombine

Either partition both numbers and recombine or partition the second number only e.g.

$$\begin{aligned} 358 + 73 &= 358 + 70 + 3 \\ &= 428 + 3 \\ &= 431 \end{aligned}$$

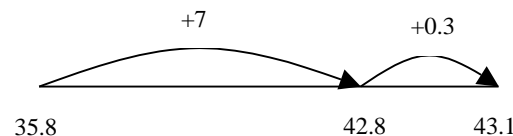


*Model negative numbers using a number line.*

#### Decimal fractions and recombine

Either partition both numbers and recombine or partition the second number only e.g.

$$\begin{aligned} 35.8 + 7.3 &= 35.8 + 7 + 0.3 \\ &= 42.8 + 0.3 \\ &= 43.1 \end{aligned}$$



#### Add the nearest multiple of 10, 100 or 1000, then adjust

Continue as in Year 2, 3, 4 but with appropriate numbers including extending to adding 0.9, 1.9, 2.9 etc.

### Subtraction

#### - = signs and missing numbers

Continue using a range of equations as in Year 1 and 2 but with appropriate numbers.

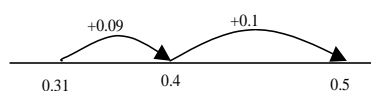
Find a difference by counting up

$$\text{e.g. } 8006 - 2993 = 5013$$

This can be modelled on an empty number line.

$$0.5 - 0.31 = 0.19$$

This can be modelled on an empty number line (see complementary addition below).

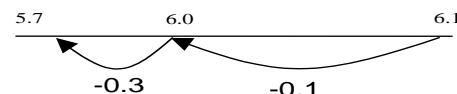


#### Subtract the nearest multiple of 10 or 100, then adjust.

Continue as in Year 2, 3 and 4 but with appropriate numbers.

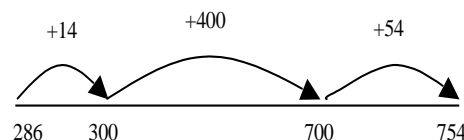
#### Use known number facts and place value to subtract

$$6.1 - 0.4 = 5.7$$



#### Complementary addition

$$754 - 286 = 468$$



**OR**  $754 - 286 = 468$

### Multiplication (all to 12 x 12)

#### x = signs and missing numbers

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

#### Partition

$$87 \times 6 = 522$$

$$\begin{aligned} 87 \times 6 &= (80 \times 6) + (7 \times 6) \\ &= (480) + (42) \\ &= 522 \end{aligned}$$

**OR**

$$87$$

X6

$$42 \quad (6 \times 7)$$

$$480 \quad (6 \times 80)$$

$$522 \quad (\text{units, then tens, hundreds etc})$$

**OR**

Use the grid method of multiplication (as below)

#### Formal written methods

Grid method

$72 \times 38$  is approximately  $70 \times 40 = 2800$

x	70	2
30	2100	60
8	560	16

Extend to bigger numbers and simple decimals with one and two decimal places.  
**(USING GRID METHOD)**

x	300	70	2
20	6000	1400	40
4	1200	280	8

### Division

#### ÷ = signs and missing numbers

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

#### Sharing and grouping

Continue to understand division as both sharing and grouping (repeated subtraction). **CHUNKING**

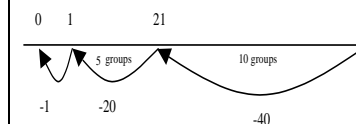
#### Remainders

Quotients expressed as fractions or decimal fractions

$$61 \div 4 = 15 \frac{1}{4} \text{ or } 15.25$$



**OR**



#### Formal written methods

$977 \div 36$  is approximately  $1000 \div 40 = 25$

$\begin{array}{r} 977 \\ - \underline{360} \quad (10 \text{ groups}) \\ \quad 617 \\ - \underline{360} \quad (10 \text{ groups}) \\ \quad \quad 257 \\ - \underline{180} \quad (5 \text{ groups}) \\ \quad \quad \quad 77 \\ - \underline{72} \quad (2 \text{ groups}) \\ \quad \quad \quad \quad 5 \end{array}$	$\begin{array}{r} 977 \\ - \underline{720} \\ \quad 257 \\ - \underline{180} \\ \quad \quad 77 \\ \quad \quad \quad \text{to} \quad 77 \\ - \underline{72} \\ \quad \quad \quad \quad 5 \end{array}$
--	--

Answer:  $27 \frac{5}{36}$

**Formal method**

$$\begin{array}{r} 358 \\ + 73 \\ \hline 431 \\ 11 \end{array}$$

789 + 642 becomes

$$\begin{array}{r} 789 \\ + 642 \\ \hline 1431 \\ 11 \end{array}$$

Answer: 1431

Numbers cross into thousands column.

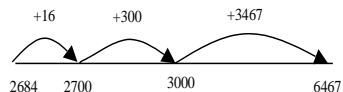
Extend to numbers with range of digits

$$\begin{array}{r} 3587 \\ + 675 \\ \hline 4262 \\ 111 \end{array}$$

Revert to expanded methods if the children experience any difficulty.  
Extend to decimals (same number of decimal places) and adding several numbers (with different numbers of digits).

$$\begin{array}{r} 14 (300) \text{ can be refined to } 14 (300) \\ 400 (700) \quad \quad \quad \underline{454} (754) \\ 54 (754) \quad \quad \quad 468 \\ \hline 468 \end{array}$$

Include number line qs with more challenging numbers:  $6467 - 2684 = 3783$



**Subtraction with at least four digits using formal method of columnar subtraction**

For instance,  $6467 - 2684 = 3783$   
Using expanded column subtraction where children experience difficulty with decomposition and need to 'see' this.

See NC appendix for e.g calculations

Add and subtract up to 4 digits

X	1000	300	40	2
10	10000	3000	400	20
8	8000	2400	320	16

Columns must be lined up in order to aid addition following multiplication calcs.

**Move from grid method to long multiplication:**

24 × 16 becomes

$$\begin{array}{r} 24 \\ \times 16 \\ \hline 240 \\ 144 \\ \hline 384 \end{array}$$

Answer: 384

124 × 26 becomes

$$\begin{array}{r} 124 \\ \times 26 \\ \hline 2480 \\ 744 \\ \hline 3224 \\ 11 \end{array}$$

Answer: 3224

**Only move to compact method once children are secure:**

24 × 6 becomes

$$\begin{array}{r} 24 \\ \times 6 \\ \hline 144 \\ 2 \end{array}$$

Answer: 144

342 × 7 becomes

$$\begin{array}{r} 342 \\ \times 7 \\ \hline 2394 \\ 21 \end{array}$$

Answer: 2394

**Move from chunking to short division (bus stop method):**

98 ÷ 7 becomes

$$\begin{array}{r} 14 \\ 7 \overline{) 98} \\ \underline{7} \phantom{0} \\ 28 \\ \underline{28} \\ 0 \end{array}$$

Answer: 14

432 ÷ 5 becomes

$$\begin{array}{r} 86 \text{ r}2 \\ 5 \overline{) 432} \\ \underline{40} \phantom{0} \\ 32 \\ \underline{30} \\ 2 \end{array}$$

Answer: 86 remainder 2

**Long division = goal for year 6**  
**With remainders as fractions and decimals**

432 ÷ 15 becomes

$$\begin{array}{r} 28 \text{ r}12 \\ 15 \overline{) 432} \\ \underline{30} \phantom{0} \\ 132 \\ \underline{120} \\ 12 \end{array}$$

Answer: 28 remainder 12

432 ÷ 15 becomes

$$\begin{array}{r} 28 \\ 15 \overline{) 432} \\ \underline{30} \phantom{0} \\ 132 \\ \underline{120} \\ 12 \end{array}$$

Answer:  $28 \frac{4}{5}$

$$\frac{12}{15} = \frac{4}{5}$$

## Year 6

### Addition

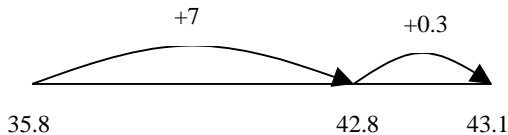
**+ = signs and missing numbers**

Continue using a range of equations as in Year 1 and 2 but with appropriate numbers.

**Partition into hundreds, tens, ones and decimal fractions and recombine**

Either partition both numbers and recombine or partition the second number only e.g.

$$\begin{aligned} 35.8 + 7.3 &= 35.8 + 7 + 0.3 \\ &= 42.8 + 0.3 \\ &= 43.1 \end{aligned}$$



**Add the nearest multiple of 10, 100 or 1000, then adjust**

Continue as in Year 2, 3, 4 and 5 but with appropriate numbers including extending to adding 0.9, 1.9, 2.9 etc

**Pencil and paper procedures**

Extend to numbers with any number of digits and decimals with 1 and 2 decimal places.

$$124.9 + 117.25 = 242.15$$

Using number line

Revert to expanded methods if the children experience any difficulty.

Extend to decimals (either one or two decimal places).

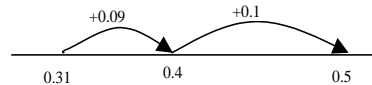
### Subtraction

**- = signs and missing numbers**

Continue using a range of equations as in Year 1 and 2 but with appropriate numbers.

Find a difference by counting up e.g.  $0.5 - 0.31 = 0.19$

This can be modelled on an empty number line (see complementary addition below).



**Subtract the nearest multiple of 10, 100 or 1000, then adjust**

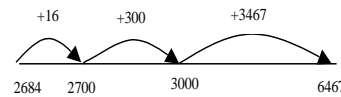
Continue as in Year 2, 3, 4 and 5 but with appropriate numbers.

Use known number facts and place value to subtract Continue as year 5

**Pencil and paper procedures**

**Number Line**

Complementary addition  
 $6467 - 2684 = 3783$



$$6467 - 2684 = 3783$$

$$\begin{aligned} 16 \text{ (2700)} &\text{ can be refined to} \\ 316 \text{ (3000)} & \\ 300 \text{ (3000)} & \\ \underline{3467} \text{ (6467)} & \\ 3467 \text{ (6467)} & \end{aligned}$$

$$\begin{array}{r} 3783 \\ 3783 \end{array}$$

(Decomposition for G&T children only when secure.)

### Multiplication

**x = signs and missing numbers**

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

**Partition**

$$87 \times 6 = 522$$

$$\begin{aligned} 87 \times 6 &= (80 \times 6) + (7 \times 6) \\ &= (480) + (42) \\ &= 522 \end{aligned}$$

OR

$$\begin{array}{r} 87 \\ \times 6 \\ \hline 42 \quad (6 \times 7) \\ 480 \quad (6 \times 80) \\ \hline 522 \quad (\text{units, then tens, hundreds etc}) \end{array}$$

OR

Use the grid method of multiplication (as below)

**Pencil and paper procedures**

**Grid method**

$372 \times 24$  is approximately  $400 \times 20 = 8000$

x	300	70	2
20	6000	1400	40
4	1200	280	8

Extend to decimals with up to two decimal places.

Moving to formal methods of multiplication for decimals. Carrying numbers underneath.

### Division

**÷ = signs and missing numbers**

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

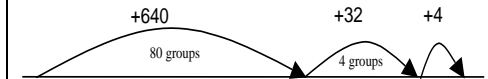
**Sharing and grouping**

Continue to understand division as both sharing and grouping (repeated subtraction).

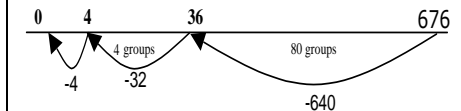
**Remainders**

Quotients expressed as fractions or decimal fractions

$$676 \div 8 = 84.5$$



OR



**Pencil and paper procedures G & T**

$977 \div 36$  is approximately  $1000 \div 40 = 25$

$$\begin{array}{r} 977 \\ - 360 \quad (10 \text{ groups}) \\ \hline 617 \\ - 360 \quad (10 \text{ groups}) \text{ refine} \\ \hline 257 \\ - 180 \quad (5 \text{ groups}) \\ \hline 77 \\ - 72 \quad (2 \text{ groups}) \\ \hline 5 \end{array} \quad \begin{array}{r} 977 \\ - 720 \\ \hline 257 \\ - 180 \quad (5 \text{ groups}) \text{ refine} \\ \hline 77 \\ - 72 \\ \hline 5 \end{array} \quad \begin{array}{r} 977 \\ - 720 \\ \hline 257 \\ - 180 \quad (5 \text{ groups}) \text{ refine} \\ \hline 77 \\ - 72 \\ \hline 5 \end{array} \quad \begin{array}{r} 977 \\ - 720 \\ \hline 257 \\ - 180 \quad (5 \text{ groups}) \text{ refine} \\ \hline 77 \\ - 72 \\ \hline 5 \end{array}$$

Answer:  $27 \frac{5}{36}$

(Formal method to continue to be taught to present Y6 04 - 05)