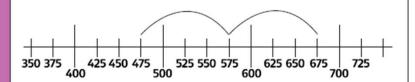


Using place value

Count in 100s

e.g. Know 475 + 200 as 475, 575, 675



Year 3

Add multiples of 10, 100 and £1

e.g. 746 + 200

e.g. 746 + 40

e.g. £6·34 + £5 as £6 + £5 and 34p

Partitioning

mental Addition

e.g. £8.50 + £3.70 as £8 + £3 and 50p + 70p and combine the totals: £II + £I.20

e.g. 347 + 36 as 300 and 40 + 30 and 7 + 6 and combine the totals: 370 + 13 = 383

e.g. 68 + 74 as 60 + 70 and 8 + 4 and combine the totals: 130 + 12 = 142

60+70=130

Using place value

Count in 1000s

e.g. Know 3475 + 2000 as 3475, 4475, 5475

Partitioning

e.g. 746 + 40

e.g. 746 + 203 as 700 + 200 and 6 + 3

e.g. 134 + 707 as 100 + 700 and 4 + 7

Counting on

Add 2-digit numbers to 2-, 3- and 4-digit numbers by adding the multiple of 10 then the Is

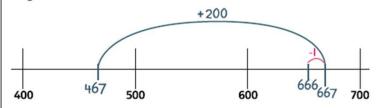
Year 4

e.g. 167 + 55 as 167 + 50 (217) + 5 = 222

Add near multiples of 10, 100 and 1000

e.g. 467 + 199

e.g. 3462 + 2999



Count on to add 3-digit numbers and money

e.g. 463 + 124 as 463 + 100 (563) + 20 (583) + 4 = 587

e.g. £4.67 + £5.30 as £9.67 + 30p

Overview of Strategies and Methods - Addition (Draft)

	Year 3	Year 4
Mental Addition	Counting on Add two 2-digit numbers by adding the multiple of 10, then the Is e.g. 67 + 55 as 67 + 50 (II7) + 5 = I22 Add near multiples of 10 and 100 e.g. 67 + 39 e.g. 364 + I99 Add pairs of 'friendly' 3-digit numbers e.g. 548 + I20 Count on from 3-digit numbers e.g. 247 + 34 as 247 + 30 (277) + 4 = 28I Using number facts Know pairs which total each number to 20 e.g. 7 + 8 = I5 e.g. I2 + 6 = I8 Number bonds to 100 e.g. 35 + 65 e.g. 46 + 54 e.g. 73 + 27	Using number facts Number bonds to 100 and to the next multiple of 100 e.g. $288 + 12 = 300$ e.g. $1353 + 47 = 1400$ e.g. $463 + 37 = 500$ Number bonds to £1 and to the next whole pound e.g. $63p + 37p = £1$ e.g. $£3 + 45 + 55p = £4$ Add to the next whole number e.g. $4 \cdot 6 + 0 \cdot 4$ e.g. $7 \cdot 2 + 0 \cdot 8$
	Add to the next 10 and the next 100 e.g. 176 + 4 = 180 e.g. 435 + 65 = 500	

	Year 3	Year 4					
	Build on partitioning to develop expanded column addition with two 3-digit numbers e.g. 466 + 358	Build on expanded column addition to develop compact column addition with larger numbers e.g. 1466 + 4868					
	400 60 6 + 300 50 8 700 110 14 = 824 Use expanded column addition where digits in a column add to more than the column value	1000 400 60 6 4000 800 60 8 + 1000 100 10 6000 300 30 4					
ten Addition	e.g. 466 + 358 400 60 6 300 50 8 + 100 10 800 20 4 Compact column addition with two or more 3-digit numbers or	Compact column addition with larger numbers e.g. 5347 + 2286 + 1495 5347 2286 + 1495					

towers of 2-digit numbers

Compact column addition with 3- and 4-digit numbers Recognise like fractions that add to I

e.g.
$$\frac{1}{4} + \frac{3}{4}$$

e.g. $\frac{3}{5} + \frac{2}{5}$

Use expanded and compact column addition to add amounts of money

Add like fractions

e.g.
$$\frac{3}{8} + \frac{1}{8} + \frac{1}{8}$$



Using place value

Count in 0·ls, 0·0ls

e.g. Know what 0·I more than 0·5I is

10s	ls	0·ls	0.01s	
	0	5	T	

Year 5

Partitioning

Mental Addition

e.g. $2\cdot 4 + 5\cdot 8$ as 2 + 5 and $0\cdot 4 + 0\cdot 8$ and combine the totals: $7 + 1\cdot 2 = 8\cdot 2$

0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0·9	1
H	I·2	1.3	1.4	I·5	1.6	1.7	1.8	l٠q	2
2·I	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3
3⋅I	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3·9	4
4·1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4·9	5
5∙I	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5·9	6
6·1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6·9	7
7·1	7.2	7:3	7.4	7.5	7.6	7.7	7.8	7.9	8
8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8·9	q
٩·١	q·2	q.3	q·4	q·5	9.6	q. ₇	q.8	q.q	10

Using place value

Count in 0·ls, 0·0ls, 0·00ls

e.g. Know what 0.001 more than 6.725 is

Partitioning

e.g. 9·54 + 3·23 as 9 + 3, 0·5 + 0·2 and 0·04 + 0·03, to give 12·77

Year 6

Counting on

Add two decimal numbers by adding the Is, then the 0.1s/0.01s/0.001s

e.g. 6.314 + 3.006 as 6.314 + 3 (9.314) + 0.006 = 9.32

Add near multiples of I

e.g. 6·345 + 0·999

e.g. 5·673 + 0·9

Count on from large numbers

e.g. 16375 + 12003 as 28375 + 3

Mental Addition

Counting on

Add two decimal numbers by adding the Is, then the 0·Is/0·0Is

Year 5

e.g.
$$5.72 + 3.05$$
 as $5.72 + 3 (8.72) + 0.05 = 8.77$

Add near multiples of I

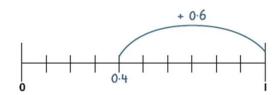
e.g. 6·34 + 0·99

e.g. 5·63 + 0·9

Count on from large numbers

Using number facts

Number bonds to I and to the next whole number

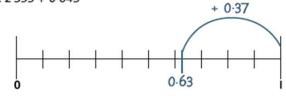


Add to the next 10 from a decimal number

e.g.
$$7.8 + 2.2 = 10$$

Using number facts

Number bonds to I and to the next multiple of I



Year 6

Add to the next I0

	۹
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100	
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	2
	7
	2
No. of Lot	3
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1	
	۹
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100	٩
-	J
-	2
The Party lies	
-	3
	d

Expanded column addition for money leading to compact column
addition for adding several amounts of money

Year 5

Compact column addition to add pairs of 5-digit numbers Continue to use column addition to add towers of several larger numbers

Use compact addition to add decimal numbers with up to 2 decimal places

Add related fractions

e.g.
$$\frac{3}{4} + \frac{1}{8} = \frac{7}{8}$$

Compact column addition for adding several large numbers and decimal numbers with up to 2 decimal places

Year 6

Compact column addition with money

Add unlike fractions, including mixed numbers

e.g.
$$\frac{3}{4} + \frac{1}{3} = \frac{11}{12}$$

e.g. $2\frac{1}{4} + I\frac{1}{3} = 3\frac{7}{12}$

abacus

Taking away

Use place value to subtract

e.g. 348 - 300

e.g. 348 - 40

348

Year 3

e.g. 348 - 8

Take away multiples of 10, 100 and £1

e.g. 476 - 40 = 436

e.g. 476 - 300 = 176

e.g f4.76 - f2 = f2.76

Partitioning

e.g. 68 - 42 as 60 - 40 and 8 - 2

e.g. £6·84 - £2·40 as £6 - £2 and 80p - 40p









Taking away

Use place value to subtract

e.g. 4748 - 4000

e.g. 4748 - 8

Take away multiples of IO, IOO, IOOO, £I, IOp or O·I

e.g. 8392 - 50

e.g. 6723 - 3000

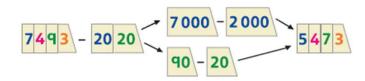
e.g. £3·74 - 30p

e.g. 5·6 - 0·2

Partitioning

e.g. £5·87 - £3·04 as £5 - £3 and 7p - 4p

e.g. 7493 - 2020 as 7000 - 2000 and 90 - 20



Year 4

Count back

e.g. 6482 - 1301 as 6482 - 1000 (5482) - 300 (5182) - 1 = 5181

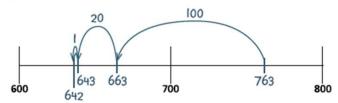
Subtract near multiples of 10, 100, 1000 or £1

e.g. 3522 - 1999

e.g. £34·86 - £19·99

Year 3

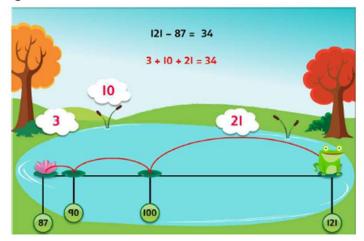
Count back in 100s, 10s then Is



Subtract near multiples of 10 and 100

Counting up

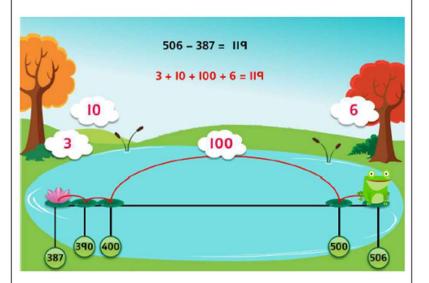
Find a difference between two numbers by counting up from the smaller to the larger



Year 4

Counting up

Find a difference between two numbers by counting up from the smaller to the larger



Mental Subtraction

Mental Subtraction

Using number facts

Know pairs which total each number to 20

e.g.
$$20 - 14 = 6$$

Number bonds to 100

e.g.
$$100 - 48 = 52$$

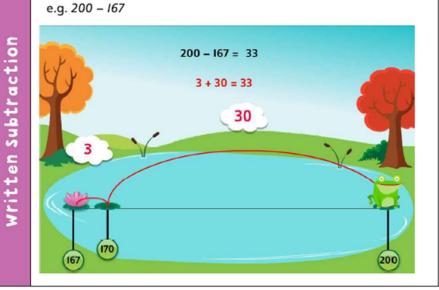
e.g.
$$100 - 35 = 65$$



Subtract using number facts to bridge back through a 10 e.g. 42 - 5 = 42 - 2(40) - 3 = 37

Year 3

Develop counting up subtraction

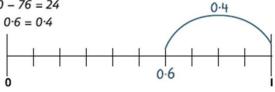


Using number facts

Number bonds to 10 and 100 and derived facts

e.g.
$$100 - 76 = 24$$

e.g.
$$I - 0.6 = 0.4$$



Year 4

Number bonds to £1 and £10

e.g.
$$£I.00 - 86p = 14p$$

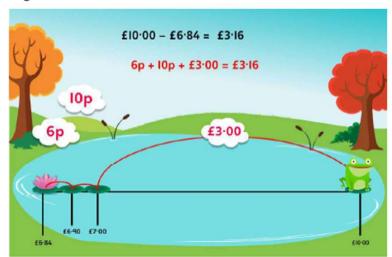
e.g.
$$f10.00 - f3.40 = f6.60$$

Expanded column subtraction with 3- and 4-digit numbers e.g. 726 - 358

Begin to develop compact column subtraction

Year 3

Use counting up subtraction to find change from £1, £5 and £10 e.g. £10.00 - £6.84



Recognise complements of any fraction to I

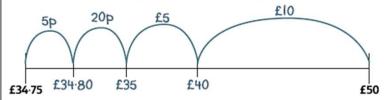
e.g.
$$1 - \frac{1}{4} = \frac{3}{4}$$

e.g.
$$1 - \frac{3}{5} = \frac{2}{5}$$

Year 4

Use counting up subtraction to find change from £10, £20, £50 and £100 $\,$

e.g. Buy a computer game for £34·75 using £50



Subtract like fractions

e.g.
$$\frac{3}{8} - \frac{1}{8} = \frac{2}{8}$$

Name and	
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- 3	

Taking away

Use place value to subtract decimals

e.g. 4·58 - 0·08

e.g. 6·26 - 0·2

Take away multiples of powers of 10

e.g. 15672 - 300

e.g. 4·82 - 2

e.g. 2·71 - 0·5

e.g. 4·68 - 0·02

Partitioning or counting back

e.g. 3964 - 1051

e.g. 5·72 - 2·01

Subtract near multiples of I, I0, I00, I000, I0 000 or £1

e.g. 86456 - 9999

e.g. 3·58 - I·99

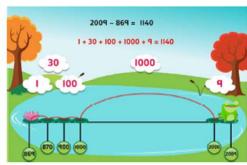
Counting up

Find a difference between two numbers by counting up from the smaller to the larger

Year 5

e.g. £12·05 - £9·59

e.g. 2009 - 869



Taking away

Use place value to subtract decimals

Year 6

e.g. 7·782 - 0·08

e.g. 16·263 - 0·2

Take away multiples of powers of 10

e.g. 132 956 - 400

e.g. 686109 - 40000

e.g. 7·823 - 0·5

Partitioning or counting back

e.g. 3964 - 1051

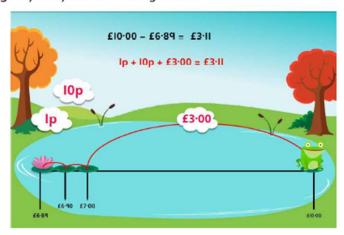
e.g. 5·72 - 2·01

Subtract near multiples of powers of 10

e.g. 360 078 - 99 998

e.g. 12·831 - 0·99

Find change using shopkeepers' addition e.g. Buy a toy for £6·89 using £10·00



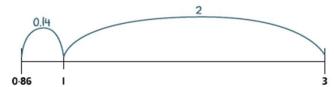
Year 5

Find a difference between two amounts of money by counting up

Using number facts

Derived facts from number bonds to 10 and 100

e.g.
$$2 - 0.45$$
 using $45 + 55 = 100$

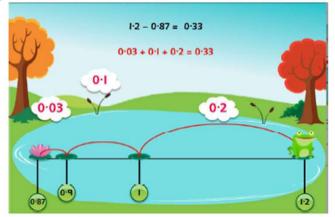


Number bonds to £1, £10 and £100

Counting up

Find a difference between two decimal numbers by counting up from the smaller to the larger

Year 6

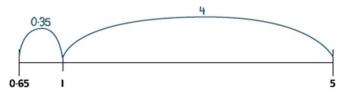


Using number facts

Derived facts from number bonds to 10 and 100

e.g.
$$0.1 - 0.075$$
 using $75 + 25 = 100$

e.g.
$$5 - 0.65$$
 using $65 + 35 = 100$

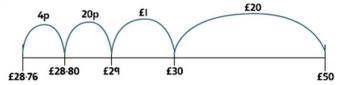


Number bonds to £1, £10 and £100

Y		

Compact column subtraction for numbers with up to 5 digits e.g. *16 324 – 8516*

Continue to use counting up subtraction for subtractions involving money, including finding change



Use counting up subtraction to subtract decimal numbers

Subtract related fractions

e.g.
$$\frac{3}{4} - \frac{1}{8} = \frac{5}{8}$$

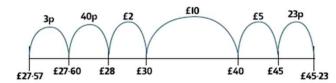
NB Counting up subtraction provides a default method for ALL children

Year 6

Compact column subtraction for large numbers e.g. 34 685 – 16 458

Use counting up for subtractions where the larger number is a multiple or near multiple of 1000 or 10000

Use counting up subtraction when dealing with money



Use counting up subtraction to subtract decimal numbers

Subtract unlike fractions, including mixed numbers

e.g.
$$\frac{3}{4} - \frac{1}{3} = \frac{5}{12}$$

e.g.
$$2\frac{3}{4} - I\frac{1}{3} = I\frac{5}{12}$$

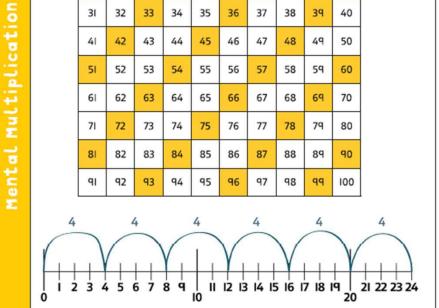
NB Counting up subtraction provides a default method for ALL children

Counting in steps ('clever' counting)

Year 3

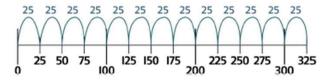
Count in 2s, 3s, 4s, 5s, 8s and 10s

1	2	3	4	5	6	7	8	q	10
Ш	12	13	14	15	16	17	18	РІ	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
qı	92	93	94	95	96	97	98	qq	100



Counting in steps (sequences)

Count in 2s, 3s, 4s, 5s, 6s, 7s, 8s, 9s, 10s, 11s, 12s, 25s, 50s, 100s and 1000s



Doubling and halving

Find doubles to double 100 and beyond using partitioning e.g. double 126



Begin to double amounts of money e.g. £3.50 doubled is £7





Use doubling as a strategy in multiplying by 2, 4 and 8 e.g. 34 x 4 is double 34 (68) doubled again = 136

abacus

Doubling and halving

Find doubles of numbers to 50 using partitioning e.g. double 48

Year 3



Use doubling as a strategy in multiplying by 2 e.g. 18×2 is double 18 = 36

Grouping

Recognise that multiplication is commutative

e.g.
$$4 \times 8 = 8 \times 4$$

Multiply multiples of I0 by I-digit numbers

e.g.
$$30 \times 8 = 240$$

Multiply 'friendly' 2-digit numbers by I-digit numbers e.g. 13×4

Using number facts

Know doubles to double 20

e.g. double 15 is 30

Know doubles of multiples of 5 to 100

e.g. double 85 is 170

Know ×2, ×3, ×4, ×5, ×8, ×10 tables facts

Grouping

Use partitioning to multiply 2-digit numbers by I-digit numbers

e.g.
$$24 \times 5$$



Multiply multiples of 100 and 1000 by I-digit numbers using tables facts

e.g.
$$400 \times 8 = 3200$$

Multiply near multiples by rounding

e.g.
$$24 \times 19$$
 as $(24 \times 20) - 24 = 456$

Using number facts

Know times-tables up to 12×12

×	1	2	3	4	5	6	7	8	q	10	П	12
1	1	2	3	4	5	6	7	8	q	10	П	12
2	2	4	6	8	10	12	14	16	18	20	П	24
3	3	6	q	12	15	18	21	24	27	30	22	36
4	4	8	12	16	20	24	28	32	36	40	33	48
5	5	10	15	20	25	30	35	40	45	50	44	60
6	6	12	18	24	30	36	42	48	54	60	55	72
7	7	14	21	28	35	42	49	56	63	70	66	84
8	8	16	24	32	40	48	56	64	72	80	77	96
q	q	18	27	36	45	54	63	72	81	90	88	108
10	10	20	30	40	50	60	70	80	90	100	99	120
11	П	22	33	44	55	66	77	88	qq	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

	Year 3	Year 4
	Build on partitioning to develop grid multiplication e.g. 23 × 4 x 20 3 4 80 12 = 92	Use grid multiplication to multiply 3-digit numbers by I-digit numbers e.g. 253 × 6
Written Multiplication		Use a vertical written algorithm (ladder) to multiply 3-digit numbers by I-digit numbers e.g. 253×6 $ \begin{array}{cccccccccccccccccccccccccccccccccc$

Doubling and halving

Double amounts of money using partitioning

e.g. double £6:73

Year 5

Use doubling and halving as a strategy in multiplying by 2, 4, 8, 5 and 20

e.g.
$$58 \times 5$$
 is half of 58×10 (580) = 290

Grouping

Multiply whole numbers and decimals by 10, 100, 1000

e.g.
$$3.4 \times 100 = 340$$

Use partitioning to multiply 'friendly' 2- and 3-digit numbers by I-digit numbers

e.g.
$$402 \times 6$$
 as 400×6 (2400) and 2×6 (12) = 2412



Use partitioning to multiply decimal numbers by I-digit numbers

e.g.
$$4.5 \times 3$$
 as 4×3 (12) and 0.5×3 (1.5) = 13.5

Multiply near multiples by rounding

e.g.
$$32 \times 29$$
 as $(32 \times 30) - 32 = 928$

Doubling and halving

Double decimal numbers with up to 2 places using partitioning e.g. double 36·73

Year 6



Use doubling and halving as strategies in mental multiplication

Grouping

Use partitioning as a strategy in mental multiplication, as appropriate

e.g.
$$8.4 \times 8$$
 as 8×8 (64) and 0.4×8 (3.2) = 67.2

Use factors in mental multiplication

e.g.
$$3.42 \times 5$$
 as half of $3.42 \times 10 = 17.1$

Multiply decimal numbers using near multiples by rounding

e.g.
$$4.3 \times 19$$
 as $(4.3 \times 20) - 4.3 = 81.7$

overview of Strategies and Methods - Multiplication (praft)

	Year 5	Year 6
Mental Multiplication	Using number facts Use times-tables facts up to 12×12 to multiply multiples of $10/100$ of the multiplier e.g. $4 \times 6 = 24$ so $40 \times 6 = 240$ and $400 \times 6 = 2400$ Use knowledge of factors and multiples in multiplication e.g. 43×6 is double 43×3 e.g. 28×50 is half of 28×100 (2800) = 1400 Know square numbers and cube numbers	Using number facts Use times-tables facts up to 12×12 in mental multiplication of large numbers or numbers with up to 2 decimal places e.g. $6 \times 4 = 24$ and $0.06 \times 4 = 0.24$
Written Multiplication	Short multiplication of 2-, 3- and 4-digit numbers by I-digit numbers e.g. 435×8 $\begin{array}{r} 435 \\ \times 8 \\ \underline{24} \\ \hline 3480 \end{array}$ Long multiplication of 2-, 3-and 4-digit numbers by 'teen' numbers e.g. 48×16 $\begin{array}{r} 48 \\ \times 16 \\ \hline 480 \\ \underline{28^48} \\ 1 \\ \hline 768 \end{array}$	Short multiplication of 2-, 3- and 4-digit numbers by I-digit numbers e.g. 3743×6 $\begin{array}{r} 3 & 7 & 4 & 3 \\ \times & & 6 \\ & 4 & 2 & 1 \\ \hline & 2 & 2 & 4 & 5 & 8 \end{array}$ Long multiplication of 2-, 3- and 4-digit numbers by 2-digit numbers e.g. 456×38 $\begin{array}{r} 4 & 5 & 6 \\ \times & 3 & 8 \\ \hline & 1 & 3 & 6 & 4 & 8 \\ \hline & 1 & 1 & \hline & 17 & 3 & 2 & 8 \\ \hline \end{array}$

abacus

Overview of Strategies and Methods - Multiplication (Draft)

Year 5

Grid multiplication of numbers with up to 2 decimal places by I-digit numbers

×	1	0.3	0.04	
6	6	1.8	0.24	= 8.04

Multiply fractions by I-digit numbers

e.g.
$$\frac{3}{4} \times 6 = \frac{18}{4} = 4\frac{2}{4} = 4\frac{1}{2}$$













NB Grid multiplication provides a default method for ALL children

Year 6

Short multiplication of decimal numbers using \times 100 and \div 100

e.g.
$$13.72 \times 6$$
 as $(1372 \times 6) \div 100 = 82.32$

Short multiplication of money

Grid multiplication of numbers with up to 2 decimal places by I-digit numbers

e.g.
$$6.76 \times 4$$

×	6	0.7	0.06	
4	24	2.8	0.24	= 27.04

Multiply simple pairs of proper fractions

e.g.
$$\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$$

NB Grid multiplication provides a default method for ALL children

overview of Strategies and Methods - Division (Draft)

	Year 3										Year 4	
	Countin Count in							ng)			70	Counting in steps (sequences) Count in 2s, 3s, 4s, 5s, 6s, 7s, 8s, 9s, 10s, 11s, 12s, 25s, 50s, 100s and 1000s
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		31	32	33	34	35	36	37	38	39	40	0 100 200 500
ion		41	42	43	44	45	46	47	48	49	50	
Mental bivision		51	52	53	54	55	56	57	58	59	60	
١٥		61	62	63	64	65	66	67	68	69	70	
ta	8	71	72	73	74	75	76	77	78	79	80	
πe	l)	81	82	83	84	85	86	87	88	89	90	
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Year 3

Doubling and halving

Find half of even numbers to 100 using partitioning e.g. find half of 48



Use halving as a strategy in dividing by 2 e.g. $36 \div 2$ is half of 36 = 18Find half of odd numbers

Year 4

Doubling and halving

Find half of even numbers to 200 and beyond using partitioning e.g. find half of 258



Begin to halve amounts of money e.g. £9 halved is £4·50







Use halving as a strategy in dividing by 2, 4 and 8 e.g. $164 \div 4$ is half of 164 (82) halved again = 41

Grouping

Recognise that division is not commutative

e.g. 16 ÷ 8 does not equal 8 ÷ 16

Relate division to multiplications 'with holes in'

e.g. $_ \times 5 = 30$ is the same calculation as $30 \div 5 = _$ thus we can count in 5s to find the answer

Year 3



Divide multiples of IO by I-digit numbers

e.g.
$$240 \div 8 = 30$$

Begin to use subtraction of multiples of IO of the divisor to divide numbers above the IOth multiple

e.g.
$$52 \div 4$$
 is 10×4 (40) and 3×4 (12) = 13

Grouping

Use multiples of I0 times the divisor to divide by I-digit numbers above the tables facts

e.g. $45 \div 3$ as 10×3 (30) and 5×3 (15)

Divide multiples of I00 by I-digit numbers using division facts e.g. $3200 \div 8 = 400$

	Year 3	Year 4
Mental pivision	Using number facts Know half of even numbers to 40 Know half of multiples of 10 to 200 e.g. half of 170 is 85 Know ×2, ×3, ×4, ×5, ×8, ×10 division facts	Using number facts Know times-tables up to I2 × I2 and all related division facts
Written bivision	Perform divisions just above the 10th multiple using written jottings, understanding how to give a remainder as a whole number Use division facts to find unit and simple non-unit fractions of amounts within the times-tables e.g. $\frac{3}{4}$ of 48 is 3 × (48 ÷ 8) = 36	Use a written version of a mental method to divide 2- and 3-digit numbers by I-digit numbers e.g. $86 \div 3$ as 20×3 (60) and 8×3 (24), remainder 2 $ \begin{array}{c} 8 \ 6 \div 3 = \\ \hline $

Doubling and halving

Halve amounts of money using partitioning e.g. half of £14·84 is half of £14 (£7) plus half of 84p (42p)

Year 5



Use doubling and halving as a strategy in dividing by 2, 4, 8, 5 and 20 e.g. $II5 \div 5$ as double II5 (230) $\div I0 = 23$

Grouping

Divide numbers by 10, 100, 1000 to obtain decimal answers with up to 3 decimal places

e.g.
$$340 \div 100 = 3.4$$

Use the 10th, 20th, 30th ... multiple of the divisor to divide 'friendly' 2- and 3-digit numbers by 1-digit numbers

Doubling and halving

Halve decimal numbers with up to 2 places using partitioning e.g. half of 36·86 is half of 36 (18) plus half of 0·86 (0·43)

Year 6



Use doubling and halving as strategies in mental division

Grouping

Use the 10th, 20th, 30th, ... or 100th, 200th, 300th ... multiples of the divisor to divide large numbers

e.g. 378 \div 9 as 40 \times 9 (360) and 2 \times 9 (18), remainder 2

3 7 8 ÷ 9 =

Use tests for divisibility

e.g. 135 divides by 3, as I + 3 + 5 = 9 and 9 is in the $\times 3$ table

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written pivision

Using number facts

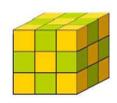
Use division facts from the times-tables up to 12×12 to divide multiples of powers of IO of the divisor

Year 5

e.g. 3600 ÷ 9 using 36 ÷ 9

Know square numbers and cube numbers





Using number facts

Use division facts from the times-tables up to 12×12 to divide decimal numbers by I-digit numbers

Year 6

e.g.
$$1.17 \div 3$$
 is $\frac{1}{100}$ of $117 \div 3$ (39)

Know tests of divisibility for numbers divisible by 2, 3, 4, 5, 9, 10 and 25

Use a written version of a mental strategy to divide 3-digit numbers by I-digit numbers

e.g. $326 \div 6$ as 50×6 (300) and 4×6 (24), remainder 2

Short division of 3- and 4-digit numbers by I-digit numbers e.q. 139 ÷ 3

Long division of 3- and 4-digit numbers by 2-digit numbers e.g. 4176 ÷ 13

$$300 + 20 + I, r 3$$
13 $\boxed{4176}$

$$-3900
276
$$-260
\boxed{16}$$

$$-13
\boxed{3}$$$$



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	Year 5	Year 6
bivision	Short division of 3- and 4-digit numbers by I-digit numbers e.g. <i>I39</i> ÷ 3 4 6 r I 3 1 3 9	Give remainders as whole numbers, fractions or decimals Use place value to divide I- and 2-place decimals by numbers \leq 12 e.g. $3.65 \div 5$ as $(365 \div 5) \div 100 = 0.73$ Divide proper fractions by whole numbers
written	Give remainders as whole numbers or as fractions Find unit and non-unit fractions of large amounts e.g. $\frac{3}{5}$ of 265 is 3 × (265 ÷ 5) = 159 Turn improper fractions into mixed numbers and vice versa	