

| | Oucus Overview of Strategies an | u methous – Addition |
|-----------------|---|---|
| | Year 3 | Year 4 |
| Mental Addition | Using place value Count in 100s e.g. Know 475 + 200 as 475, 575, 675 400 + 475 + 200 = 475 + 575 + 575 + 575 + 575 + 575 + 575 + 575 + 500 + 575 + 500 + 575 + 500 + 575 + 500 + 575 + 500 + 575 + 500 + 575 + 500 + 575 + 500 + 575 + 500 + 575 + 500 + 575 + 500 + 575 + 500 + 575 + 500 + 575 + 500 + 575 + 500 + 575 + 500 | 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 40 and 6 + 3 e.g. 746 + 203 as 700 + 200 and 30 and 4 + 7 Counting on Add 2-digit numbers to 2-, 3- and 4-digit numbers by adding the multiple of 10 then the 1s 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 +200 +200 (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 |



| | Year 3 | Year 4 |
|-----------------|--|--|
| Mental Addition | Counting on Add two 2-digit numbers by adding the multiple of 10, then the 1s e.g. $67 + 55$ as $67 + 50$ (117) + 5 = 122 Add near multiples of 10 and 100 e.g. $67 + 39$ e.g. $364 + 199$ Add pairs of 'friendly' 3-digit numbers e.g. $548 + 120$ Count on from 3-digit numbers e.g. $247 + 34$ as $247 + 30$ (277) + 4 = 281 Using number facts Know pairs which total each number to 20 e.g. $7 + 8 = 15$ e.g. $12 + 6 = 18$ Number bonds to 100 e.g. $35 + 65$ e.g. $46 + 54$ e.g. $73 + 27$ Add to the next 10 and the next 100 e.g. $176 + 4 = 180$ e.g. $435 + 65 = 500$ | 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. $463 + 37 = 500$ 7 463 40 463 470 Number bonds to £1 and to the next whole pound e.g. $63p + 37p = £1$ e.g. $£3 \cdot 45 + 55p = £4$ Add to the next whole number e.g. $4 \cdot 6 + 0 \cdot 4$ e.g. $7 \cdot 2 + 0 \cdot 8$ |





| | Year 3 | Year 4 |
|------------------|--|---|
| Written Addition | Year 3Build on partitioning to develop expanded column addition with two 3-digit numbers e.g. 466 + 358 $400 60 6$ $+ \frac{300 50 8}{700 110 14} = 824$ Use expanded column addition where digits in a column add to more than the column value e.g. 466 + 358 $400 60 6$ $300 50 8$ $+ \frac{100 10}{800 20 4}$ Compact column addition with two or more 3-digit numbers or towers of 2-digit numbers | Year 4Build on expanded column addition to develop compact column addition with larger numbers e.g. 1466 + 4868 $1000 400 60 6$ $4000 800 60 8$ $+ 1000 100 10$ $6000 300 30 4$ Compact column addition with larger numbers e.g. 5347 + 2286 + 14955347 2286 $+ 1495$ 121 9128 |
| Wri | e.g. $347 + 286 + 495$ 347 286 + 495 21 1128 Compact column addition with 3- and 4-digit numbers Recognise like fractions that add to 1 - e.g. 1/4 + 3/4 - e.g. 3/5 + 2/5 | Use expanded and compact column addition to add amounts of money Add like fractions e.g. 3/8 + 1/8 + 1/8 |

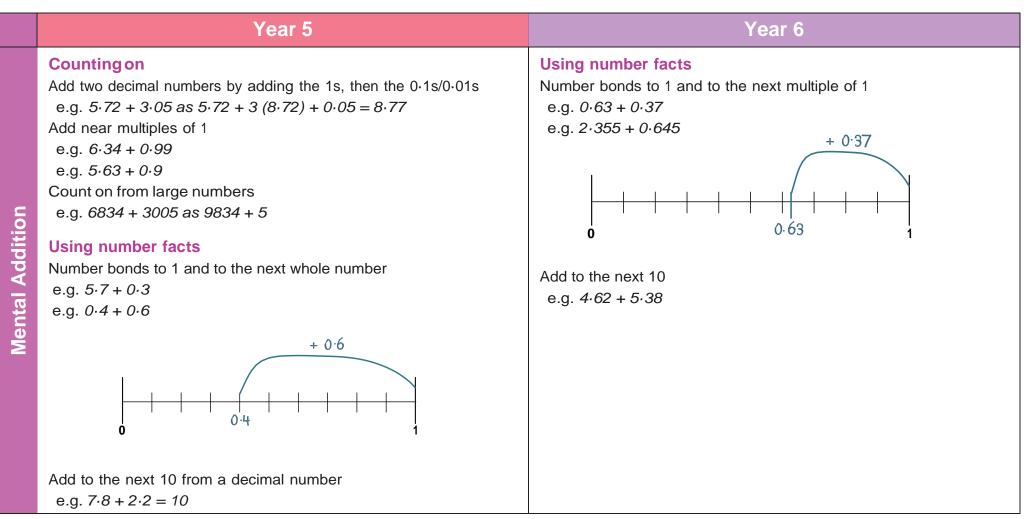
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ALWAYS LEARNING



| Year 5 | | | | | | | | | Year 6 | |
|---|--------------|-------|-----|-----|-----|------|-------------|------|--------|---|
| Using place value Count in 0.1s, 0.01s e.g. <i>Know what 0.1 more than 0.51 is</i> | | | | | | | | | | Using place value Count in 0.1s, 0.01s, 0.001s e.g. Know what 0.001 more than 6.725 is Partitioning |
| | 10: | S | 1 | S | | 0·1s | 5 | 0.0 |)1s | e.g. $9.54 + 3.23$ as $9 + 3$, $0.5 + 0.2$ and $0.04 + 0.03$, to give |
| | | | (| C | | 5 | | 1 | 1 | Counting on Add two decimal numbers by adding the 1s, then the 0.1s/0.01s/0.001s |
| Partitionin e.g. 2.4 the totals | - + 5∙8 a | | | | 0.4 | + 0 | •8 a | nd c | oml | e.g. $6 \cdot 314 + 3 \cdot 006$ as $6 \cdot 314 + 3 (9 \cdot 314) + 0 \cdot 006 = 9 \cdot 32$ Add near multiples of 1 e.g. $6 \cdot 345 + 0 \cdot 999$ e.g. $5 \cdot 673 + 0 \cdot 9$ |
| | 0.1 0. | 2 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1 | Count on from large numbers e.g. |
| | | 2 1.3 | _ | | 1.6 | | | 1.9 | | 16 375 + 12 003 as 28 375 + 3 |
| | | 2 2.3 | - | - | | | | | | |
| | | 2 3.3 | | | | - | | 3.9 | | |
| | 4.1 4. | _ | - | - | | - | | | | |
| | | 2 5.3 | | - | | - | - | | | |
| | 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 | 9 | |
| | 9.1 9. | 2 9.3 | 9.4 | 9∙5 | 9.6 | 9.7 | 9.8 | 9.9 | 10 | |







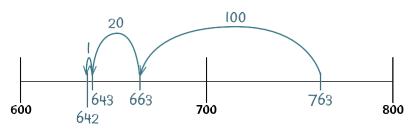
| | Year 5 | Year 6 |
|------------------|--|---|
| Written Addition | Expanded column addition for money leading to compact column addition for adding several amounts of money e.g. £14.64 + £28.78 + £12.26 f14 60p 4p f28 70p 8p + f12 20p 6p f1 10p f55 60p 8p Compact column addition to add pairs of 5-digit 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 e.g. $15.68 + 27.86$ 15.68 + 27.86 11.1 43.54 Add related fractions e.g. 3/4 + 1/8 = 7/8 | Compact column addition for adding several large numbers and decimal numbers with up to 2 decimal places Compact column addition with money e.g. £14.64 + £28.78 + £12.26 $f \mid 4.64$ + £28.78 f \mid 2.26 $i \mid 1 \cdot i \mid f 55.68$ Add unlike fractions, including mixed numbers e.g. $1/4 + 2/3 = 11/12$ e.g. $2 \cdot 1/4 + 1 \cdot 1/3 = 3 \cdot 7/12$ |





| | Year 3 | Year 4 |
|----------------|--|---|
| al Subtraction | Taking away Use place value to subtract e.g. $348 - 300$ e.g. $348 - 40$ e.g. $348 - 8$ 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 348 | Taking away Use place value to subtract e.g. $4748 - 4000$ 4748 4748 4748 4748 50 14748 50 14748 50 14748 50 14748 50 14748 50 14748 50 14748 50 14748 50 14748 50 14748 50 1100000000000000000000000000000000000 |
| Mental | | 7493 - 2020 $90 - 20$ Count back e.g. $6482 - 1301 \text{ as } 6482 - 1000 (5482) - 300 (5182) - 1 = 5181$ Subtract near multiples of 10, 100, 1000 or £1 e.g. $3522 - 1999$ e.g. £ $34.86 - £19.99$ |

Count back in 100s, 10s then 1s e.g. 763 - 121 as 763 - 100 (663) - 20 (643) - 1 = 642

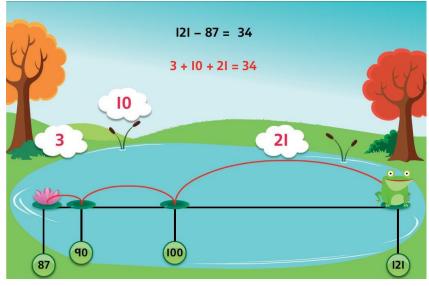


Subtract near multiples of 10 and 100 e.g. 648 – 199 e.g. 86 – 39

Counting up

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

e.g. 121 – 87

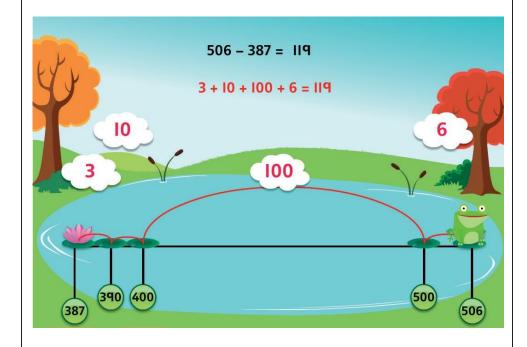


Year 4

Counting up

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

e.g. 506 – 387 e.g. 4000 - 2693



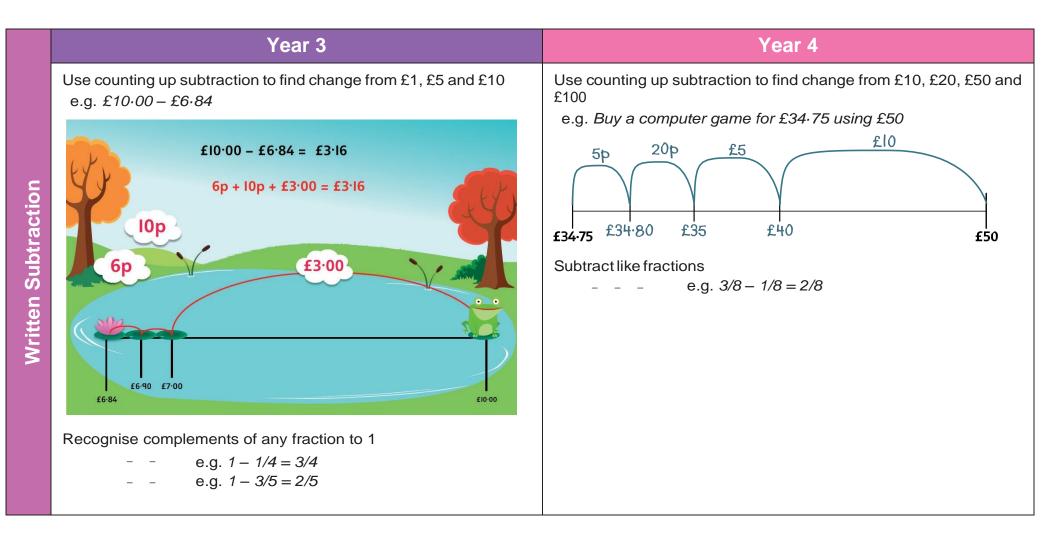
Mental Subtraction





| | Year 3 | Year 4 |
|---------------------|--|--|
| 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) $- 3 = 37$ | Using number facts Number bonds to 10 and 100 and derived facts e.g. $100 - 76 = 24$ o.4 e.g. $1 - 0.6 = 0.4$ o.6 1 Number bonds to £1 and £10 e.g. £1.00 - 86p = 14p e.g. £10.00 - £3.40 = £6.60 |
| Written Subtraction | Develop counting up subtraction e.g. $200 - 167$ | Expanded column subtraction with 3- and 4-digit numbers e.g. $726 - 358$ $ \begin{array}{r} 600 & 10 & 16 \\ 797 & 20 & 8 \\ - 300 & 50 & 8 \\ 300 & 60 & 8 \end{array} $ Begin to develop compact column subtraction e.g. $726 - 358$ $ \begin{array}{r} 6 & 11 & 16 \\ 7 & 2 & 8 \\ - & 3 & 5 & 8 \\ 3 & 6 & 8 \end{array} $ |







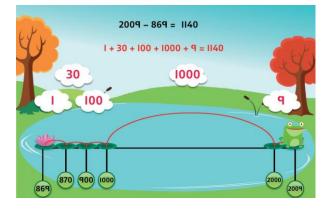


| | Year 5 | Year 6 |
|-------------|---|---|
| | Taking away | Taking away |
| | Use place value to subtract decimals e.g. 4.58 – 0.08 | Use place value to subtract decimals e.g. $7.782 - 0.08$ |
| | e.g. 6·26 – 0·2 | e.g. <i>16</i> ·263 – <i>0</i> ·2 |
| | Take away multiples of powers of 10 | Take away multiples of powers of 10 |
| | e.g. <i>15 672 – 300</i> | e.g. 132 956 – 400 |
| | e.g. 4·82 – 2 e.g. 2·71 – 0·5 | e.g. 686 109 – 40 000 |
| | e.g. 4·68 – 0·02 | e.g. 7·823 – 0·5 |
| | Partitioning or counting back | Partitioning or counting back |
| C | e.g. 3964 – 1051 | e.g. 3964 – 1051 |
| <u>.</u> | e.g. 5·72 – 2·01 | e.g. 5·72 – 2·01 |
| act | Subtract near multiples of 1, 10, 100, 1000, 10 000 or £1 | Subtract near multiples of powers of 10 |
| tra | e.g. <i>86 456 – 9999</i> | e.g. <i>360 078 – 99 998</i> |
| Subtraction | e.g. 3·58 – 1·99 | e.g. <i>12</i> ·831 – 0·99 |
| | Countingup | |
| Aental | Find a difference between two numbers by counting up from the smaller to the larger | |
| \leq | $a = f_{12} = f_{2} = f_{2}$ | |

Counting up

Find a difference between two numbers by counting up from the smaller to the larger e.g. £12·05 - £9·59

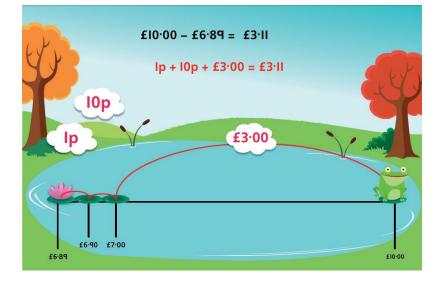
e.g. 2009 – 869





Year 5

Find change using shopkeepers' addition e.g. *Buy a toy for £6.89 using £10.00*

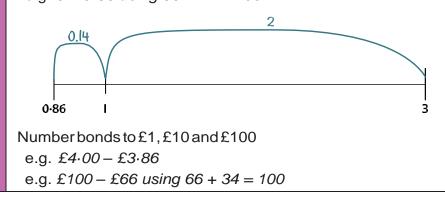


Find a difference between two amounts of money by counting up

Using number facts

Derived facts from number bonds to 10 and 100 e.g. 2 - 0.45 using 45 + 55 = 100

e.g. 3 - 0.86 using 86 + 14 = 100

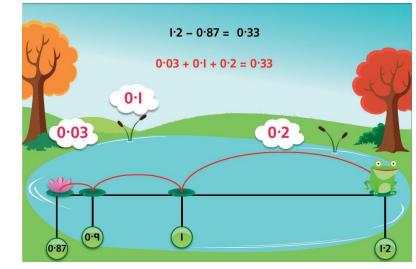


Year 6

Counting up

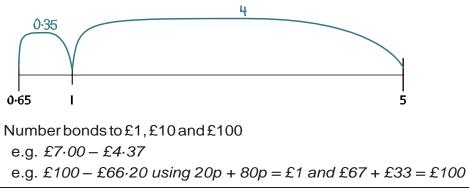
Find a difference between two decimal numbers by counting up from the smaller to the larger

e.g. 1.2 – 0.87

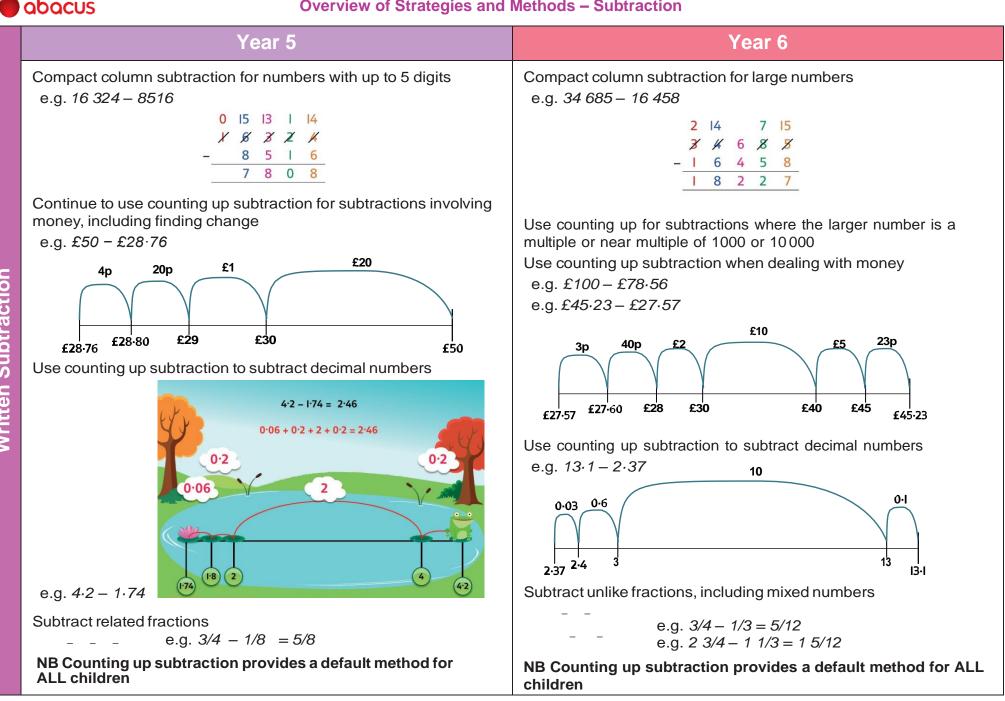


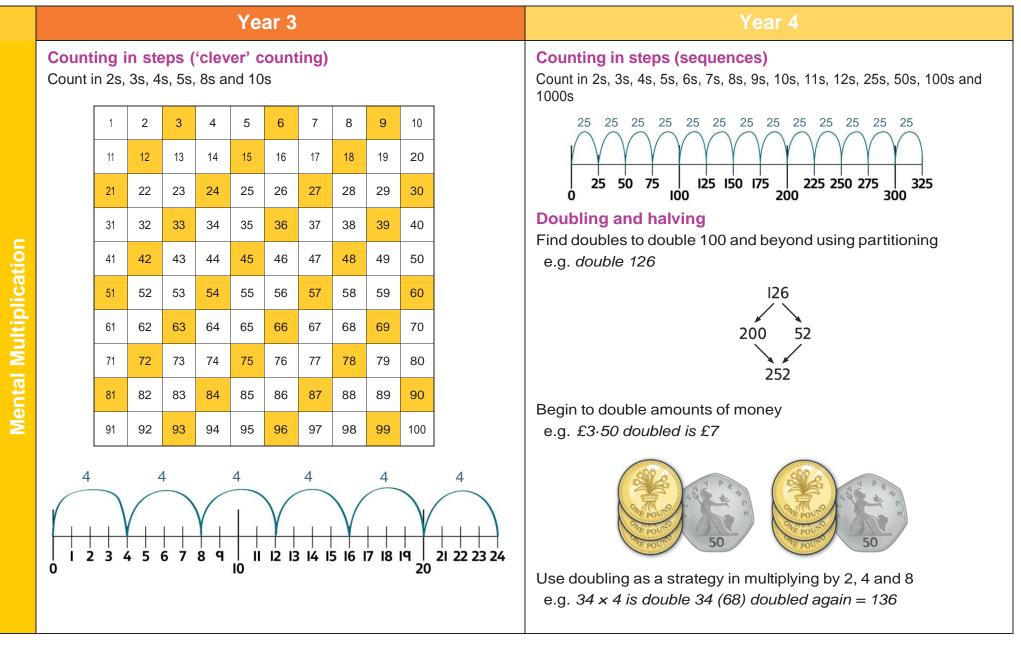
Using number facts

Derived facts from number bonds to 10 and 100 e.g. 0.1 - 0.075 using 75 + 25 = 100e.g. 5 - 0.65 using 65 + 35 = 100









ALWAYS LEARNING

Overview of Strategies and Methods – Multiplication

ALWAYS LEARNING



| | Year 3 | Year 4 |
|------------------------|---|---|
| Written Multiplication | Build on partitioning to develop grid multiplication e.g. 23×4 $\boxed{ x \ 20 \ 3 \ 4 \ 80 \ 12 \ } = 92$ | Use grid multiplication to multiply 3-digit numbers by 1-digit numbers e.g. 253×6 $\boxed{ \times 200 50 3}_{6 1200 300 18} = 1518$ Use a vertical written algorithm (ladder) to multiply 3-digit numbers by 1-digit numbers e.g. 253×6 253×6 $253 \times 6 \times 200$ $3 0 0 \leftarrow 6 \times 200$ $3 0 0 \leftarrow 6 \times 50$ $+ 1 8 \leftarrow 6 \times 3$ $\boxed{1518}$ Use grid multiplication to multiply 2-digit numbers by 2-digit numbers e.g. 16×48 $\boxed{ \times 10 6 \\ 40 400 240 \\ 8 80 48 } = \frac{128}{768}$ |

Overview of Strategies and Methods – Multiplication

| | Year 5 | Year 6 |
|-----------------------|--|---|
| Mental Multiplication | Doubling and halving Double amounts of money using partitioning e.g. double £6.73 f_{12} f_{12} f_{1} .46 f_{13} .46 Use doubling and halving as a strategy in multiplying by 2, 4, 8, 5 and 20 e.g. 58 × 5 is half of 58 × 10 (580) = 290 Grouping Multiply whole numbers and decimals by 10, 100, 1000 e.g. $3 \cdot 4 \times 100 = 340$ Use partitioning to multiply 'friendly' 2- and 3-digit numbers by 1-digit numbers e.g. 402×6 as 400×6 (2400) and 2×6 (12) = 2412 402×6 2400 	 12 2412 Use partitioning to multiply decimal numbers by 1-digit numbers e.g. $4 \cdot 5 \times 3$ as 4×3 (12) and $0 \cdot 5 \times 3$ (1-5) = 13 \cdot 5 Multiply near multiples by rounding e.g. 32×29 as $(32 \times 30) - 32 = 928$ | Doubling and halving Double decimal numbers with up to 2 places using partitioning e.g. double 36.73 72 1.46 73.46 Use doubling and halving as strategies in mental multiplication Grouping Use partitioning as a strategy in mental multiplication, as appropriate e.g. 3060×4 as 3000×4 (12 000) and 60×4 (240) = 12 240 e.g. 8.4×8 as 8×8 (64) and 0.4×8 (3.2) = 67.2 Use factors in mental multiplication e.g. 421×6 as 421×3 (1263) doubled = 2526 e.g. 3.42×5 as half of $3.42 \times 10 = 17.1$ Multiply decimal numbers using near multiples by rounding e.g. 4.3×19 as $(4.3 \times 20) - 4.3 = 81.7$ |

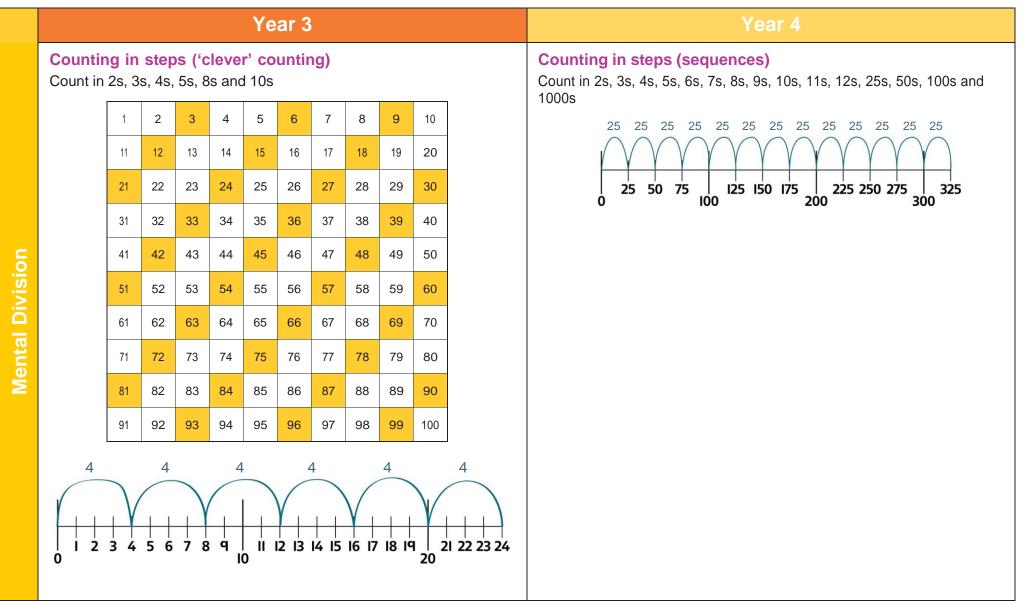


| | Year 5 | Year 6 |
|------------------------------|---|---|
| Mental Multiplication | Using number facts Use times-tables facts up to 12×12 to multiply multiples of 10/100 of the multiplier e.g. $4 \times 6 = 24$ so $40 \times 6 = 240$ and $400 \times 6 = 2400$ Use knowledge of factors and multiples 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 | 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 1-digit numbers e.g. 435×8 4 3 5 $\times 8$ 2 4 3 4 8 0 Long multiplication of 2-, 3-and 4-digit numbers by 'teen' numbers e.g. 48×16 4 8 $\times 16$ 4 8 0 $2 8^{4}8$ 1 7 6 8 | Short multiplication of 2-, 3- and 4-digit numbers by 1-digit numbers e.g. 3743×6 3743×6 421 22458 Long multiplication of 2-, 3- and 4-digit numbers by 2-digit numbers 456×38 $13^{1}6^{1}80$ $36^{4}4^{4}8$ 11 17328 |

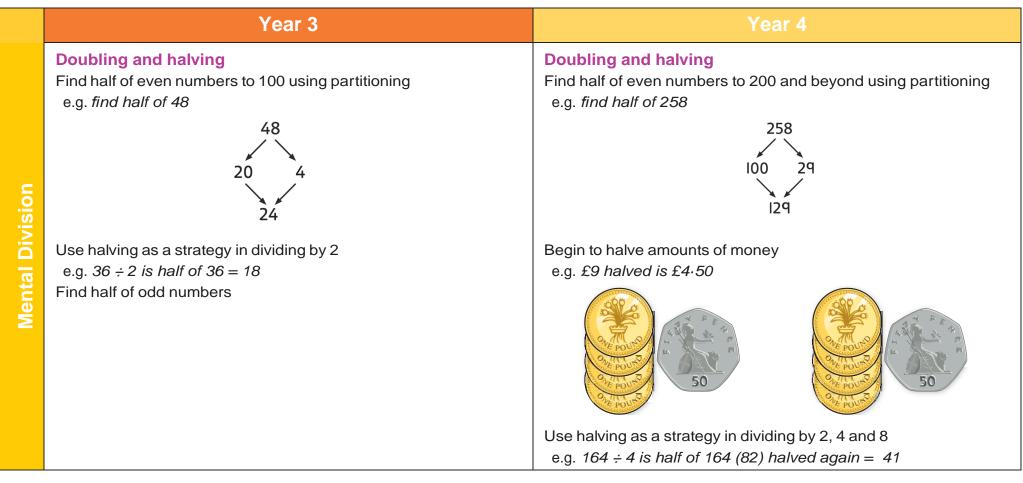


| | Year 5 | | | | | | Year 6 | | | | | |
|-------------------|---|---------|---|-----|------|---|--|-----|------|------|---------|--|
| en Multiplication | Grid multiplication of numbers with up to 2 decimal places by 1- digit numbers e.g. $1 \cdot 34 \times 6$ | | | | | Short multiplication of decimal numbers using × 100 and \div 100 e.g. 13.72×6 as $(1372 \times 6) \div 100 = 82.32$ Short multiplication of money | | | | | | |
| | | × 0.3 | | 0.3 | 0.04 | | e.g. $\pounds 13.72 \times 6$ $\pounds 1 3.7 2$ | | | | | |
| | | 6 | 6 | ۱.8 | 0.24 | = 8.04 | × 6 | | | | | |
| | Multiply fractions by 1-digit numbers e.g. $3/4 \times 6 = 18/4 = 42/4 = 41/2$ | | | | | $\begin{array}{c} \underline{ \pounds \ 8 \ 2 \ .3 \ 2 } \\ \hline \\ Grid multiplication of numbers with up to 2 decimal places by 1- digit numbers \\ e.g. \ 6.76 \times 4 \end{array}$ | | | | | | |
| Written | | | | | | × | 6 | 0.7 | 0.06 | | | |
| Ň | NB Grid multiplication provides a default method for ALL children | | | | | | 4 | 24 | 2.8 | 0.24 | = 27.04 | |
| | | | | | | Multiply simple pairs of proper fractions e.g. 1/2 × 1/4 = 1/8 NB Grid multiplication provides a default method for ALL children | | | | | | |









ALWAYS LEARNING



| | Year 3 | Year 4 |
|------------------------|---|---|
| Mental Division | Grouping Recognise that division is not commutative e.g. $16 \div 8$ does not equal $8 \div 16$ Relate division to multiplications 'with holes in' e.g. $_ x 5 = 30$ is the same calculation as $30 \div 5 = _$ thus we can count in 5s to find the answer $\int e^{-1} $ | Grouping Use multiples of 10 times the divisor to divide by 1-digit numbers above the tables facts e.g. $45 \div 3 as 10 \times 3 (30) and 5 \times 3 (15)$ $45 \div 3 =$ $above = 10 \times 3 = 45 + 5 + 3 = 15$ $10 \times 3 = 30$ 15 Divide multiples of 100 by 1-digit numbers using division facts e.g. $3200 \div 8 = 400$ |
| | Divide multiples of 10 by 1-digit numbers e.g. $240 \div 8 = 30$ | |
| | Begin to use subtraction of multiples of 10 of the divisor to divide numbers above the 10th multiple e.g. $52 \div 4$ is 10×4 (40) and 3×4 (12) = 13 | |



| | Year 3 | Year 4 |
|------------------|--|---|
| Mental Division | Using number facts Know half of even numbers to 40 Know half of multiples of 10 to 200 e.g. <i>half of 170 is 85</i> Know x2, x3, x4, x5, x8, x10 division facts | x 1 2 3 4 5 6 7 8 9 10 11 12 1 1 2 3 4 5 6 7 8 9 10 11 12 2 2 4 6 8 10 12 14 16 18 20 11 24 3 3 6 9 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 9 9 18 27 36 45 54 63 70 68 108 10 10 20 30 40 50 60 70 80 90 100 99 120 11 11 22 33 44 55 66 77 88 99 110 121 132 12 12 24 36 48 60 72 84 96 108 120 132 144 |
| Written Division | 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. $3/4$ of 48 is $3 \times (48 \div 4) = 36$ | Use a written version of a mental method to divide 2- and 3-digit numbers by 1-digit numbers e.g. $86 \div 3 as 20 \times 3$ (60) and 8×3 (24), remainder 2 $86 \div 3 =$ $3 \times 3 = 86$ $2 \times 3 = 60$ $2 \times 3 = 60$ $2 \times 3 = 24$ $2 \times 3 = 2$ |



| | Year 5 | Year 6 | | | | |
|-----------------|---|---|--|--|--|--|
| | Doubling and halving Halve amounts of money using partitioning e.g. <i>half of £14.84 is half of £14 (£7) plus half of 84p (42p)</i> £I4.84 | Doubling and halving Halve decimal numbers with up to 2 places using partitioning e.g. <i>half of 36.86 is half of 36 (18) plus half of 0.86 (0.43)</i> | | | | |
| | f7 42p f7·42 | 36·86 18 0·43 18·43 | | | | |
| Mental Division | L7.42 Use doubling and halving as a strategy in dividing by 2, 4, 8, 5 and 20 e.g. 115 ÷ 5 as double 115 (230) ÷ 10 = 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 e.g. $186 \div 6$ as 30×6 (180) and 1×6 (6) I $86 \div 6 = $ $30 \times 6 = 186$ $186 \div 6 = 31$ $30 \times 6 = 180$ 6 $1 \times 6 = 6$ 0 31 | 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. $378 \neq 9$ as 40×9 (360) and 2×9 (18), remainder 2 $378 \neq 9 = $ $378 \neq 9 = $ $378 \neq 9 = $ $378 \neq 9 = $ $2 \times 9 = 378$ $378 \neq 9 = $ $40 \times 9 = 360$ 18 $2 \times 9 = 18$ $2 \times 9 = 18$ $378 \oplus 9 = $ 42 Use tests for divisibility e.g. 135 divides by 3, as $1 + 3 + 5 = 9$ and 9 is in the x3 table | | | | |



| | Year 5 | Year 6 |
|------------------------|--|---|
| Mental Division | Using number factsUse division facts from the times-tables up to 12×12 to divide multiples of powers of 10 of the divisore.g. $3600 \div 9$ using $36 \div 9$ Know square numbers and cube numbers | Use division facts from the times-tables up to 12×12 to divide decimal numbers by 1-digit numbers e.g. $1 \cdot 17 \div 3$ is $1/100$ of $117 \div 3$ (39) Know tests of divisibility for numbers divisible by 2, 3, 4, 5, 9, 10 and 25 |
| Written Division | Use a written version of a mental strategy to divide 3-digit numbers e.g. $326 \div 6$ as 50×6 (300) and 4×6 (24), remainder 2 $326 \div 6 = $ $326 \div 6 = $ $326 \div 6 = $ $326 \div 6 = $ $50 \times 6 = 300$ 26 $4 \times 6 = 24$ 2 54 | Short division of 3- and 4-digit numbers by 1-digit numbers e.g. $139 \div 3$ $4 \ 6 \ r \ 1$ $3 \ 1 \ 3 \ 9$ Long division of 3- and 4-digit numbers by 2-digit numbers e.g. $4176 \div 13$ $300 + 20 + 1, r \ 3$ $13 \ 4176 \ -3900 \ 276 \ -260 \ 16 \ -13 \ 3$ |



| | Year 5 | Year 6 |
|----------|--|---|
| Division | Short division of 3- and 4-digit numbers by 1-digit numbers e.g. $139 \div 3$ $\begin{array}{r}4 & 6 & r & 1\\\hline3 & 1 & 3 & 19\end{array}$ | Give remainders as whole numbers, fractions or decimals Use place value to divide 1- and 2-place decimals by numbers ≤ 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. $3/5$ of 265 is $3 \times (265 \div 5) = 159$ Turn improper fractions into mixed numbers and vice versa | |