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| **Addition** | **Using number facts*** Derive, quickly and without difficulty, number bonds to 1000 **(6A.1)**
* Know by heart number bonds to 100 and use these to derive related facts e.g. *3·46 + 0·54* **(6A.2)**
 | **Mental Calculation*** Add small and large whole numbers where the use of place value or number facts makes the calculation do-able mentally e.g. *34* *000 + 8000*
* Add multiples of powers of 10 and near multiples of the samee.g. *6345 + 199*
* Add two 1-place decimal numbers or two 2-place decimal numbers less than 1 e.g. *2.4 + 5.8 =* e.g. *0·74 + 0·33* **(6A.4)**
* Add a positive number to a negative numbers in a context such as temperature **(6A.3)**
 | **Efficient Written Addition*** Use column addition to add decimal numbers with up to 3 decimal places **(6A.5)**
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| **Subtraction** | **Using Number Facts*** Know by heart/ quickly derive number bonds to 1, 10 and 100 and use these to derive related facts e.g. *10 – 3·65 as 0·35 + 6*
* Derive, quickly and without difficulty, number bonds to 1000 e.g. *1000 – 654 as 46 + 300 in our heads***(6S.1)**
 | **Mental Calculation*** Subtract negative numbers in a context such as temperature where the numbers make sense
* Subtract multiples of powers of 10 and near multiples of the same
 | **Efficient Written Subtraction*** Use column subtraction to subtract decimal numbers with up to 3 decimal places **(6S.3)**
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| **Multiplication** | **Using Number Facts*** Use doubling and halving as mental multiplication strategies, including to multiply by 2, 4, 8, 5, 20, 50 and 25e.g. *28 × 25 is a quarter of 28 × 100 = 700* **(6M.2)**
 | **Doubling and Halving*** Double decimal numbers with up to 2 places using partitioning e.g. *36·73 doubled is double 36 (72) plus double0·73 (1·46)*
 | **Grouping*** Multiply 1- and 2-place decimals by numbers up to and including 10 using place value and partitioning e.g. *3·6 × 4 is 12 + 2·4*  e.g. *2·53 × 3 is 6 + 1·5 + 0·09* **(6M.3)**
* Use rounding in mental multiplication e.g. *34 × 19 as (34 × 20) – 34* **(6M.4)**
 | **Place Value*** Multiply whole numbers and decimals with up to 3 places by 10, 100 or 1000 e.g. *234 × 1000 = 234* *000*  e.g. *0·23 × 1000 = 230*
* Use place value and number facts in mental multiplication e.g. *4000 × 6 = 24* *000* e.g. *0·03 × 6 = 0·18* **(6M.1)**
 | **Short Multiplication*** Use short multiplication to multiply

a 1-digit number by a number with up to 4 d**Long Multiplication*** Use long multiplication to multiply a

2-digit number by a number with up to 4 digits **(6M.5)****Short Multiplication*** Use short multiplication to multiply a 1-digit number by a number with 1 or 2 decimal places, including amounts of money
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| **Division** | **Using Number Facts** * Know by heart all the division facts up to 144 ÷ 12 **(4D.1)**
* Identify common factors, common multiples and primes numbers and use factors in mental division e.g. *438 ÷ 6 is 219 ÷ 3 which is 73*
 | **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)* ***(*6D.3)**

 |  **Place Value** * Divide whole numbers by powers of 10 to give whole number answers or answers with up to 3 decimal places **(6D.1)**
* Divide 1- and 2-place decimals by numbers up to and including 10 using place value e.g. *2·4 ÷ 6 = 0·4* e.g. *0·65 ÷ 5 = 0·13* e.g. *£6·33 ÷ 3 = £2·11* **(6D.2)**
 | **Short Division*** Use short division to divide a number with up to 4 digits by a 1 or 2 digit number **(6D4)**

**Long Division*** Use long division to divide 3-digit and 4-digit numbers by ‘friendly’ 2-digit numbers **(6D.5)**
* Give remainders as whole numbers or as fractions or as decimals **(6D.6)**

* Divide a 1-place or a 2-place decimal number by a number ≤ 12 using multiples of the divisors
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