- I can use negative numbers in context and calculate intervals across zero
- I can round any whole number to a required degree of accuracy
- I can read, write order and compare numbers up to $10,000,000$ and determine the value of each digit
- I can express missing number patterns algebraically
- I can use simple formulae sequences
- I can explore the order of operations using brackets
- I can identify common factors, common multiples and prime numbers, with increasingly large numbers

Addition
6A. - I can use column addition to add decima numbers with up to 3 decimal places
6A. 4 - I can add use mental strategies to add
6A. 3 - I can add positive number to negative numbers

- 6A. 2 - I can use number bonds to 100 to work out related facts (e.g. 3.46+0.54)
- 6A. 1 - I can work out quickly number bonds to 1000
- 6M. 5 - I can use long multiplication to multiply a 2 -digit number by a number with up to 4 -digits
- 6M. 4 - I can multiply mentally by near multiples of

100 (e.g. $67 \times 199$ as ( $67 \times 200$ )-67

- 6M. 3 - I can multiply 2 place decimals by 1 digit numbers using partitioning
-6M.2 - I can use doubling and halving to multiply by $2,4,8,5,20$ and 25
- 6M. 1 - I can use related multiplication facts to multiply 2 place decimals e.g. $0.03 \times 6=0.18$


## Problem Solving

- I can solve a variety of number problems using formulae and algebraic equations
- I can find pairs of numbers that satisfy an equation with two unknowns
- I can express missing number problems algebraically
- I can solve multi-step word problems and investigations involving all 4 operations from a large range of contexts
- I can round and estimate as a means of predicting and checking the order of magnitude of my answers to a decimal calculation
- I consistently check the reasonableness of my answer in all calculations

Position and Direction

- I can predict missing co-ordinates using the properties of shapes (e.g kite, parallelograms)
- I can reflect simple shapes in the axes
- I can draw and translate simple shapes on a 4 quadrant grid
- I can label the axes of a grid in all 4 quadrants and describe a position on the grid


## Division

- 6D.6 - I can express a quotient as a fraction
decimal or rounded according to context
- 6D.5 - I can use long division to divide 3-digit and

4-digit numbers by 'friendly' 2 -digit numbers

- 6D. 4 - I can use short division to divide a number
with upto 4 digits by a 1 -digit or 2-digit number
- 6D.3-I can halve decimal numbers with up to 2 decimal places using partitioning e.g. half of 36.86
- 6D.2 - I can identify common factors to help with mental division e.g. $438 \div 6$ is $219 \div 3$ which is 73
- 6D.1-I can divide 1 and 2 place decimals by 10 and less using know facts e.g. $2.4 \div 6=0.4 ; 0.65$ $\div 5=0.13$; £6.11 $\div 3=£ 2.11$


## Percentages and Ratio

- I can divide a quantity in a given ratio (recognising the proportion as a fraction of the whole)
- I can identify that a problem can be written as a ratio and solve problems using this relationship by scaling up (mulipicalion) or similar shapes
where the scale factor is known or can be found where tecall and use equivalence between - I can recall and use equivalence between ractions, d.e0 mals and $10 \%$ of $£ 5.00$ or $50 \%$ of the team


## Fractions

- I can divide proper fraction
- I can multiply simple pairs of proper fractions and write the answer in its simplest form e.g. $1 / 4 \times 1 / 2$ $=1 / 8$
- I can add and subtract fractions and mixed numbers with different denominators using the dea of equivalence
- I can compare and order any set of fractions, proper or improper, or mixed numbers including hose with different denominators
- can convert between miles and km
- I can recognise when it is possible to use formulae to calculate volume
I can calculate, estimate and compare volume of cubes and cuboids using standard units e.g. cm3 - I can solve problems involving he calculaion and conversion of units of measure using
- I can use, read, write and convert between standard units of measure using decimal notation up to 3 decimal places
- I can calculate the area of parallelograms and triangles
- I can calculate, estimate and compare volumes of cubes and cuboids using standard units


## Statistics

- I can calculate the mean as an average and understand when it is appropriate to find the mean of a set of data
- I can read and interpret linear proportional graphs (e.g. speed)
- I can construct a pie chart
- max assessments: 2
- I can interpret a pie chart

6S.3-I can use efficient written subtraction with numbers with upto 3 decimal places

- 6S.2 - I can use mental strategies to subtract decimal numbers
- 6S.1-I can work out number bonds to 1000 quickly
- I can round answers with a specific degree of accuracy (where this has been specified)
- I can calculate more complex decimal equivalents such as $3 / 8=0.375$
- I can associate a fraction with division and calculate decimal equivalents of common fractions such as halves, quarters and fifths


## Shape

