Key Learning in Mathematics at Half Acres Primary School - Year 4

Number - number and place value Number - addition and subtraction Number - multiplication and division • add and subtract numbers with up to 4 digits using the formal • count in multiples of 6, 7, 9, 25 and 1000 • recall multiplication and division facts for written methods of columnar addition and subtraction where • find 1000 more or less than a given number multiplication tables up to 12×12 • count backwards through zero to include negative numbers • use place value, known and derived facts to multiply appropriate • recognise the place value of each digit in a four-digit number (thousands, • estimate and use inverse operations to check answers to a and divide mentally, including: multiplying by 0 and 1; hundreds, tens, and ones) dividing by 1; multiplying together three numbers calculation • order and compare numbers beyond 1000 • solve addition and subtraction two-step problems in contexts, • recognise and use factor pairs and commutativity in • identify, represent and estimate numbers using different representations deciding which operations and methods to use and why mental calculations • round any number to the nearest 10, 100 or 1000 • multiply two-digit and three-digit numbers by a one-• solve number and practical problems that involve all of the above and with digit number using formal written layout • solve problems involving multiplying and adding, increasingly large positive numbers • read Roman numerals to 100 (I to C) and know that over time, the numeral including using the distributive law to multiply two system changed to include the concept of zero and place value digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects Geometry - properties of shapes • compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Measurement • identify acute and obtuse angles and compare and order angles • convert between different units of measure [for up to two right angles by size example, kilometre to metre; hour to minute] • identify lines of symmetry in 2-D shapes presented in different • measure and calculate the perimeter of a rectilinear orientations figure (including squares) in centimetres and metres • complete a simple symmetric figure with respect to a specific • find the area of rectilinear shapes by counting line of symmetry Number - fractions (including decimals) Geometry - position and direction • estimate, compare and calculate different measures. recognise and show, using diagrams, families of common equivalent fractions • describe positions on a 2-D grid as coordinates in the first including money in pounds and pence • count up and down in hundredths; recognise that hundredths arise when • read, write and convert time between analogue and dividing an object by one hundred and dividing tenths by ten • describe movements between positions as translations of a given digital 12- and 24-hour clocks • solve problems involving increasingly harder fractions to calculate quantities, unit to the left/right and up/down • solve problems involving converting from hours to and fractions to divide quantities, including non-unit fractions where the • plot specified points and draw sides to complete a given polygon minutes; minutes to seconds; years to months; weeks answer is a whole number to days add and subtract fractions with the same denominator • interpret and present discrete and continuous data using • recognise and write decimal equivalents of any number of tenths or appropriate graphical methods, including bar charts and time hundredths • recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ • solve comparison, sum and difference problems using information • find the effect of dividing a one- or two-digit number by 10 and 100, presented in bar charts, pictograms, tables and other graphs identifying the value of the digits in the answer as ones, tenths and • round decimals with one decimal place to the nearest whole number • compare numbers with the same number of decimal places up to two decimal • solve simple measure and money problems involving fractions and decimals to two decimal places