## Learning Wall Mathematics

| [KEY] I can solve problems including scaling by simple fractions and problems involving simple rates. | I know whether a number up to 100 is prime and recall prime numbers up to 19. |  | [KEY] I can add and subtract larger numbers in my head. |  | I round numbers to check the accuracy of my solution. |  | I can multiply 4 digit numbers by a one- or two-digit number using a written method, including long multiplication for two-digit numbers. |  | [KEY] I can compare and order fractions whose denominators are all multiples of the same number. |  |
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|  | I multiply and divide numbers mentally drawing upon my times table knowledge and other number facts. | I can round any number up to 1000000 to the nearest 10, 100, 1000, 10 000 and 100000. |  | [KEY] I can read, write, order and compare numbers to at least 1000 000 and know the value of each digit. |  | I can solve number problems and practical problems that involve numbers up to 1000000, negative numbers, rounding or jumping in steps. |  | I can divide 4 digit numbers by a one-digit number using the written method of short division and find the remainder. |  |  |
| I can multiply and divide whole numbers and those involving decimals by 10,100 and 1000. | I can re numerals to recognise y Roman | Roman 000 (M) and rs written in umerals. | I count forwards or backwards in steps 10, 100, 1000, 10000 or 100000 for any given number up to 1000000. |  | [KEY] I can use negative numbers in my work and can count backwards and forwards to and from negative numbers. |  | [KEY] I can add and subtract whole numbers with more than 4 digits using written methods such as column addition and subtraction. |  | I know what square numbers and cube numbers are, including the notation for squared <br> (2) and cubed (3). |  |
|  | [KEY] I can solve multiplication and division problems using my knowledge of factors and multiples, squares and cubes. | [KEY] I can identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. |  | I can solve addition and subtraction multi-step problems, deciding which operations and methods to use and why. |  | I know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. |  | I can solve more difficult problems involving addition, subtraction, multiplication and division and a combination of these. |  |  |
| [KEY] I can draw a given angle (such as $47^{\circ}$ ), and then measure them in degrees $\left({ }^{\circ}\right)$. | I can change metric units to become imperial units such as inches, pounds and pints. |  | [KEY] I can read, write, order and compare numbers with up to three decimal places. |  | I can solve problems involving numbers with up to three decimal places. |  | [KEY] I can calculate the perimeter of multi-shape shapes in centimetres and metres. |  | I know one whole turn - or a set of angles all around a point - measure a total of $360^{\circ}$. |  |

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|  |  |  |  |  |  |  |  |  | [KEY] I can find the information I need from a timetable or large table of data. |  |
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| [KEY] I can calculate the area of rectangles in square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes. |  | I use diagrams and some fraction tools to multiply proper fractions (7/10) and mixed numbers (17/10) by whole numbers. |  | I can nam equivalent f given fractio these in (including hundr | and write actions of a , and show drawing enths and dths). | [KEY] I can read and write decimal numbers as fractions [for example, 0.71 $=71 / 100$ ]. |  | I can estimate volume [for example, using 1 cm 3 blocks to build cuboids] and capacity [for example, using water]. |  |  |
| I can convert between the units of time. | I know what thousandths are and how to use them with tenths, hundredths and decimals. |  | I know what mixed numbers and improper fractions are and I can convert from one to the other [for example,$2 / 5+4 / 5=6 / 5=1 \quad 1 / 5] .$ |  | I can add and subtract fractions with the same denominator and denominators that are multiples of the same number. |  | I can round decimals with two decimal places to the nearest whole number and to one decimal place. |  | I can solve more difficult problems which involve units of measurement, decimal numbers and scales. |  |
| I can Identify 3-D shapes, including cubes and other cuboids, from 2-D drawings. |  | [KEY] I work on problems which require knowing percentage and decimal equivalents of $1 / 2,1 / 4,1 / 5$, $2 / 5,4 / 5$ and those fractions with a denominator of a multiple of 10 or 25 . |  | I know what the per cent symbol is (\%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal. |  | [KEY] I c between diff metric $m$ example, k metre; cen metre; cen millimetre kilogram; litre | n convert rent units of asure (for ometre and imetre and imetre and gram and and millilitre). | I know that angles are measured in degrees and I can estimate and compare acute, obtuse and reflex angles. |  |  |
| [KEY] I know regular shapes have equal sides and angles and irregular shapes do not have equal sides and angles. | I know that a straight line - or angles that add up to a straight line - measure $180^{\circ}$. |  | I can reflect or translate a shape on a grid. |  | I can solve problems using a line graph to find the answers. |  | I can identify multiples of $90^{\circ}$ (right angles). |  | I can find the missing lengths and angles of a rectangle. |  |

