|  |  |
| --- | --- |
| C:\Users\Us\AppData\Local\Microsoft\Windows\INetCache\IE\EUY1CDQ7\math_symbols[1].jpg **Maths**  **I Can Statements - Band 6** | |
| **Number and Place Value** |  |
| I can read, write, order and compare numbers to at least 10,000,000 (ten million) and say the value of each digit |  |
| I can round any number to a required degree of accuracy |  |
| I can use negative numbers in context when looking at temperature or money; counting in jumps forwards and backwards through 0 |  |
| I can solve number and practical problems that involve ordering and comparing numbers to 10 000 000, rounding to a required degree of accuracy, using negative numbers and calculating intervals across zero |  |
| **Addition and Subtraction** |  |
| I can mentally calculate using a mix of the four operations |  |
| I can solve problems with more than one step and operation and explain why I used them |  |
| I can solve addition and subtraction word and practical problems |  |
| I can use estimation to check answers to calculations and determine an appropriate degree of accuracy. |  |
| **Multiplication and Division** |  |
| I can multiply numbers of up to 4 digits by a two-digit number using a formal written method |  |
| I can divide numbers of up to 4 digits by a two-digit number using a formal written method of long division, showing remainders, fractions or rounding as appropriate |  |
| I can divide numbers of up to 4 digits by a two-digit number using a formal written method of short division, showing remainders, fractions or rounding as appropriate |  |
| I can mentally calculate using a mix of the four operations and increasingly large numbers |  |
| I can identify common factors, multiples and prime numbers |  |
| I can use the order of importance of the four operations when answering questions |  |
| I can solve addition and subtraction multi-step problems, deciding which operations and methods to use and explain why they were suitable |  |
| I can solve problems involving addition, subtraction, multiplication and division |  |
| I can use estimating to check answers and problem solving |  |
| **Fractions** |  |
| I can use common factors and multiples to simplify fractions and express fractions in the same denomination |  |
| I can compare and order fractions including those bigger than 2 |  |
| I can add and subtract fractions with different denominators and mixed numbers |  |
| I can multiply simple pairs of proper fractions, writing the answer in the simplest form such as 1/4 x 1/2 = 1/8 |  |
| I can divide proper fractions by whole numbers such as 1/3 ÷ 2 = 1/6 |  |
| I can link a fraction with division and work out decimal fractions such as 0.378 is 3/8 as a simple fraction |  |
| I can explain the place value of any digit in a number with up to 3 decimal places and multiply or divide these by 10, 100 or 1000 |  |
| I can multiply numbers less than 10 with up to 2 decimal places by whole numbers |  |
| I can use written division methods for numbers with up to two decimal places |  |
| I can solve problems which require answers to be rounded to specified degrees of accuracy |  |
| I can use equivalences between simple fractions, decimals and percentages to help me solve problems |  |
| **Measurement** |  |
| I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to three places if I need to |  |
| I can use, read, write and convert between standard units. I can convert measurement of length, mass, volume and time from a smaller unit to a larger unit and vice versa. I can do this using decimal notation up to the three decimal places |  |
| I can convert between miles and kilometres |  |
| I can recognise that shapes with the same areas can have different perimeters and vice versa |  |
| I can recognise when it is possible to use formulae to find the areas or volumes of shapes |  |
| I can calculate the areas of parallelograms and triangles |  |
| I can calculate, estimate and compare volumes of cubes and cuboids using standard units, including cubic centimetres (cm³),cubic metres (m³). I can extend this to other units <eg> mm³ and km³</eg> |  |
| **Position and Direction** |  |
| I can describe positions in all four quadrants on a full coordinate graph |  |
| I can draw and translate simple shapes on the coordinate plane and reflect these in the axis |  |
| **Properties of Shape** |  |
| I can draw 2-D shapes using dimensions and angles I am given |  |
| I can recognise, describe and build simple 3-D shapes, including making nets |  |
| I can compare and classify geometric shapes based on their properties and sizes. I can also find unknown angles in any triangles, quadrilaterals or regular polygons |  |
| I can illustrate and name parts of circles, including radius, diameter and circumference. I know that the diameter is twice the radius |  |
| I can recognise angles where they meet at a point, are on a straight line or are vertically opposite. I can then find any missing angles |  |
| **Ratio and Proportion** |  |
| I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to three places if I need to |  |
| I can solve problems involving the calculation of percentages. I can also use percentages for comparisons |  |
| I can solve problems involving shapes where the scale factor is known or can be found |  |
| I can solve problems involving unequal sharing and grouping. I can use my knowledge of fractions and multiples to do this |  |
| **Statistics** |  |
| I can interpret and construct pie charts and line graphs. I can use these to solve problems |  |
| I can calculate and interpret the mean as an average |  |
| **Algebra** |  |
| I can use simple formulae |  |
| I can create and describe linear number sequences |  |
| I can record missing number problems algebraically |  |
| I can find pairs of numbers which complete an equation with two unknowns |  |
| I can create a list of possibilities of the combination of two variables |  |