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