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| **Objectives**  | **Autumn** | **Spring** | **Summer** |
| * Count forwards and backwards in steps of power 10 for any given number up to 1,000,000.
* Recognise and use thousandths and relate them to tenths, hundreds and decimal equivalents.
* Recognise mixed numbers and improper fractions and convert from one to the other.
* Read and write decimal numbers as fractions, for example, 0.47 = 47/100.
* Recognise the per cent symbol (%) and understand per cent relates to number of parts per hundred
* Write percentages as a fraction with denominator hundred, and as a decimal fraction.
* Compare and add fractions whose denominators are all multiples of the same number
* Multiply and divide numbers mentally drawing upon known facts up to 12 x 12.
* Round any number to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000
* Round decimals with 2dp to the nearest whole number and to 1decimal place.
* Recognise and use square numbers and cube numbers and the notation for squared (²) and cubed (³).
* Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
* Multiply number up to 4-digit by a 1 or 2-digit number using formal written methods, including long multiplication for 2-digit numbers.
* Divide numbers up to 4-digits by 1-digit numbers.
* Solve problems involving multiplication and division where large numbers are used by decomposing them into factors
* Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why; solve problems involving 3 decimal places and problems which require knowledge of percentages and decimal equivalents.
* Know angles are measured in degrees: estimate and compare acute; obtuse and reflex angles.
* Draw given angles and measure them in degrees (º).
* Convert between different units of metric measures and estimate volume and capacity.
* Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.
* Calculate and compare the area of squares and rectangles including using standard units (cm² and m²).
* Solve comparison, sum and difference problems using information presented in a line graph.
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