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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. | * 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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