

Year 5 Maths I CANS

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| | Reasoning with large whole integers | | | |
| 1 | I can read, write, order and compare numbers up to one million | | | |
| 2 | I can round numbers within one million to the nearest multiple of powers of ten | | | |
| 3 | I can read Roman numerals up to M | | | |
| | Integer addition and subtraction | | | |
| 1 | I can use rounding to estimate | | | |
| 2 | I can use a range of mental calculation strategies to add and subtract integers | | | |
| 3 | I can illustrate and explain the written method of column addition and subtraction | | | |
| 4 | I can select efficient calculation strategies | | | |
| | Line graphs and timetables | | | |
| 1 | I can complete, read and interpret data presented in line graphs | | | |
| 2 | I can read and interpret timetables including calculating intervals | | | |
| | Multiplication and division | | | |
| 1 | I can identify multiples and factors | | | |
| 2 | I can investigate prime numbers | | | |
| 3 | I can multiply and divide by 10, 100 and 1000 (integers) | | | |
| 4 | I can derive multiplication and division facts | | | |
| 5 | I can illustrate and explain formal multiplication and division strategies such as short and long | | | |
| 6 | I can use a range of mental calculation strategies | | | |
| | Perimeter and area | | | |
| 1 | I can investigate area and perimeter of rectilinear shapes | | | |
| 2 | I can estimate area of non-rectilinear shapes | | | |
| | Fractions and decimals | | | |
| 1 | I can read, write, order and compare decimals | | | |
| 2 | I can round decimals to the nearest whole number | | | |
| 3 | I can represent, identify, name, write, order and compare fractions (including improper and mixed numbers) | | | |
| 4 | I can calculate fractions of amounts | | | |
| | Angles | | | |
| 1 | I can classify, compare and order angles | | | |
| 2 | I can measure and draw angles with a protractor | | | |
| 3 | I can understand and use angle facts to calculate missing angles | | | |
| | Fractions and percentages | | | |
| 1 | I can add and subtract fractions with denominators that are multiples of the same number | | | |
| 2 | I can multiply fractions (and mixed numbers) by a whole number | | | |
| 3 | I can explore percentage, decimal, fractions equivalence | | | |
| | Transformations | | | |
| 1 | I can use coordinates in all four quadrants | | | |
| 2 | I can understand translation and reflection | | | |
| 3 | I can calculate intervals across zero as a context for negative numbers | | | |
| | Converting units of measure | | | |
| 1 | I can convert between metric units of length, mass and capacity and units of time | | | |
| 2 | I can understand and use approximate conversion between imperial and metric | | | |
| | Calculating with whole numbers and decimals | | | |
| 1 | I can use mental strategies to add and subtract involving decimals | | | |
| 2 | I can use formal written strategies to add, subtract and multiply involving decimals | | | |
| 3 | I can multiply and divide by 10, 100 and 1000 involving decimals | | | |
| 4 | I can derive multiplication facts involving decimals | | | |

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| | 2-D and 3-D shape | | | |
| 1 | I can classify 2-D shapes and reason about regular and irregular polygons | | | |
| 2 | I can understand properties of diagonals of quadrilaterals | | | |
| 3 | I can classify 3-D shapes | | | |
| 4 | I can identify 2-D representations of 3-D shapes. | | | |
| | Volume | | | |
| 1 | I can use cube numbers and notation | | | |
| 2 | I can estimate volume | | | |
| 3 | I can convert units of volume | | | |
| | Problem solving | | | |
| 1 | I can understand negative numbers and calculate intervals across zero | | | |
| 2 | I can calculate the mean | | | |
| 3 | I can interpret remainders | | | |
| 4 | I can investigate numbers: consecutive, palindromic, multiples | | | |

Mental Maths (Autumn, Spring and Summer)

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| | Addition and Subtraction | | | |
| 1 | I can derive/recall sums and differences of decimals, e.g. $6.5 + 2.7$, $7.8 - 1.3$. | | | |
| 2 | I can derive/recall doubles and halves of decimals, e.g. half of 5.6, double 3.4. | | | |
| 3 | I can derive/recall what must be added to any four-digit number to make the next multiple of 1000, e.g. $4087 + \square = 5000$. | | | |
| 4 | I can derive/recall what must be added to a decimal with ones and tenths to make the next whole number, e.g. $7.2 + \square = 8$. | | | |
| 5 | I can add or subtract a pair of two-digit numbers or three-digit multiples of 10 using partitioning when appropriate, e.g. $38 + 86$, $620 - 380$, $350 + 360$. | | | |
| 6 | I can add or subtract a near multiple of 10 or 100 to any two-digit or three-digit number, e.g. $235 + 198$. | | | |
| 7 | I can find the difference between near multiples of 100, e.g. $607 - 588$, or of 1000, e.g. $6070 - 4087$. | | | |
| 8 | I can add or subtract any pairs of decimal fractions each with ones and tenths, e.g. $5.7 + 2.5$, $6.3 - 4.8$. | | | |
| 9 | I can subtract by counting up from the smaller to the larger number, including money. | | | |
| 10 | I can double and adjust e.g. $24 + 23$. | | | |
| 11 | I can use knowledge of place value and related calculations, e.g. $6.3 - 4.8$ using $63 - 48$. | | | |
| 12 | I can count on or back in minutes and hours, bridging through 60 (analogue and digital times). | | | |

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| | Multiplication and Division | | | |
| 1 | I can derive/ recall multiplication facts up to 12×12 . | | | |
| 2 | I can derive/ recall division facts corresponding to tables up to 12×12 , and the related unit fractions, e.g. $7 \times 9 = 63$ so one-ninth of 63 is 7 and one-seventh of 63 is 9. | | | |
| 3 | I can derive/ recall percentage equivalents of one-half, one-quarter, three-quarters, tenths and hundredths. | | | |
| 4 | I can derive/ recall factor pairs to 100. | | | |
| 5 | I can multiply and divide two-digit numbers by 4 or 8 using repeated doubling or halving, e.g. 26×4 , $96 \div 8$ using repeated doubling or halving. | | | |
| 6 | I can multiply two-digit numbers by 5 or 20 by forming an equivalent calculation, e.g. to multiply by 5, multiply by 10, then halve; to multiply by 20, double, then multiply by 10. | | | |
| 7 | I can multiply by 25 or 50, e.g. when multiplying by 50 multiply by 100 and divide by 2. | | | |
| 8 | I can double three-digit multiples of 10 to 500, e.g. 380×2 , and find the corresponding halves, e.g. $760 \div 2$. | | | |
| 9 | I can find the remainder after dividing a two-digit number by a single-digit number, e.g. $27 \div 4 = 6 \text{ R } 3$ using knowledge of division facts. | | | |
| 10 | I can multiply and divide whole numbers and decimals by 10, 100 or 1000, e.g. 4.3×10 , 0.75×100 , $25 \div 10$, $673 \div 100$, $74 \div 100$. | | | |
| 11 | I can multiply pairs of multiples of 10, e.g. 60×30 , and a multiple of 100 by a single digit number, e.g. 900×8 . | | | |
| 12 | I can divide a multiple of 10 by a single-digit number (whole number answers) e.g. $80 \div 4$, $270 \div 3$. | | | |
| 13 | I can find fractions of whole numbers or quantities, e.g. $\frac{2}{3}$ of 27, $\frac{4}{5}$ of 70 kg. | | | |
| 14 | I can find 50%, 25% or 10% of whole numbers or quantities, e.g. 25% of 20 kg, 10% of £80. | | | |
| 15 | I can find factor pairs for numbers to 100, e.g. 30 has the factor pairs 1×30 , 2×15 , 3×10 and 5×6 . | | | |

