

## Year 5 Assessment Framework for Mathematics – Larger Print Version

Standard		Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions, Decimals and Percentages	Measurement	Geometry	Statistics
<b>Greater Depth</b>	16/19: GD(a)	1) Count forwards and backwards in steps of powers of 10 for any given number up to 1,000,000	3) Use rounding to check additions and subtractions  4) Independently solve multi-step problems	6) Find common factors of two numbers <i>9: 1, 3, 9</i> <i>12: 1, 2, 3, 4, 6, 12</i> <i>Common factors of 9 and 12: 1, 3</i>	10) Add and subtract fractions with denominators that are multiples of the same number  11) Use thousandths and relate them to decimal equivalents	14) Use approximate equivalences between metric & imperial units <i>inches, pounds, pints</i>	18) Use properties of rectangles to deduce related facts and find missing lengths and angles	
	10/19: GD(b)	2) Read Roman numerals to 1000(M) and recognise years written in Roman numerals	5) Begin to solve long multiplication with 4 digits by 2 digits  $\begin{array}{r} 5683 \\ \times 24 \\ \hline 22732 \\ +113660 \\ \hline 136392 \end{array}$	7) Use square and cube numbers with correct notation <i>4<sup>2</sup> 2<sup>3</sup></i>	12) Write percentages as fractions of 100 and as decimals  13) Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{5}$ , $\frac{2}{5}$ , $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25	15) Estimate area of irregular shapes  16) Estimate capacity <i>l, ml</i>	19) Distinguish between regular and irregular polygons	
	4/19: GD(c)			8) Solve problems involving any combination of the four operations  9) <u>Recall</u> prime numbers to 19 <i>2, 3, 5, 7, 11, 13, 17, 19</i>		17) Solve measures problems inc. scaling		

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Expected Standard	27/30: Exp(a)	1) Compare numbers to 1,000,000	Use formal written methods to: 5) <b>add 4-digit numbers</b>	10) Identify all factor pairs of a number $48 = 1 \times 48 = 2 \times 24 = 3 \times 16 = 4 \times 12 = 6 \times 8$	15) Order fractions whose denominators are all multiples of the same number	21) Find perimeter of composite rectilinear shapes in cm and m	25) Identify 3D shapes from 2D representations	29) Solve comparison, sum and difference problems using info presented in a line graph
	18/30: Exp(b)	2) Round to 10, 100, 1000, 10,000 and 100,000	6) <b>subtract 4-digit numbers</b>	11) <u>Establish</u> whether a number to 100 is prime	16) Round decimals with 2dp to the nearest whole number and the nearest 1dp $3.68 \rightarrow 3.7$	22) Estimate volume using $1\text{cm}^3$ blocks	26) Draw given angles and measure in degrees	30) Complete, read and interpret info in tables, including timetables
	9/30: Exp(c)	3) Describe number sequences involving fractions and decimals $3, 3\frac{1}{2}, 4, 4\frac{1}{2} \dots$ <i>Rule: add <math>\frac{1}{2}</math></i>	Use mental methods to: 7) <b>add numbers</b> $10,162 + 2300 = 12,462$ 8) <b>subtract numbers</b> $12,462 - 2300 = 10,162$	12) Identify prime factors and composite (non-prime) numbers	17) Order numbers with up to 3dp	23) Solve problems involving converting between units of time	27) Identify angles at a point and 90, 180, 270 and 360 degrees	
		4) Solve number and place value problems	9) Written method for 4 digit x 1 digit $\begin{array}{r} 3657 \\ \times 4 \\ \hline 14628 \end{array}$	13) Use written method to divide 4 digits by 1 digit including remainders	18) Convert between mixed numbers and improper fractions	24) Convert units <i>km and m</i> <i>m and cm</i> <i>cm and mm</i> <i>kg and g</i> <i>l and ml</i>	28) Represent a shape following reflection or translation	
				14) Solve multiplication & division probs inc. scaling by simple fractions and problems involving simple rates	19) Multiply proper fractions and mixed numbers by whole numbers			
					20) Read and write decimal numbers as fractions $0.71 = 71/100$			

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<b>Working Towards</b>	8/10: WT(a)	1) Interpret negative numbers in context	3) Solve multi-step addition and subtraction problems with guidance	4) Multiply and divide whole numbers and numbers to 1dp by 10, 100 and 1000	6) Identify equivalent fractions, represented visually, including tenths and hundredths	8) Find area of rectangles in m <sup>2</sup> and cm <sup>2</sup>	9) Know angles are measured in degrees				
	5/10: WT(b)	2) Count forwards and backwards with positive & negative whole numbers including through zero							5) Use tables knowledge to multiply and divide mentally	7) Add and subtract fractions with the same denominator	10) Estimate and compare acute, obtuse and reflex angles
	2/10: WT(c)										