## Maths - Year 4

## Calculating 11: Using multiplying facts to solve dividing problems

Key Vocabulary		• Find halves, quarters and eighths of a number or quantity.
Inverse Factor	The reverse or the opposite. A number that divides into another number exactly, e.g. 4 is a factor of 8.	<ul> <li>Record dividing facts and the inverse multiplying facts.</li> <li>Related halving to dividing into 2.</li> <li>Use multiplying facts as a strategy when dividing.</li> <li>Complete calculations accurately using the short written method of dividing.</li> <li>Show understanding of the distributive property of multiplying when using multiplying facts as a strategy for dividing.</li> <li>Use a times table grid square and the distributive property of multiplying to derive dividing facts.</li> <li>Describe part of an array as a fraction of the whole array.</li> <li>Explain links between finding fractions and dividing.</li> <li>Explain remainders in ways that are consistent with the context of the dividing problems.</li> </ul>
Fraction	A part of a whole amount e.g. ⅓	
Remainder	Something that is left over when other parts have been used.	
Grouping/ Sharing	Occurs in dividing when we know an amount and want to find out how many times a different amount will go into it, e.g. 2 goes into 10 five times.	
Mathematical Methods		
- Using a halving strategy with dividing problems in real-life contexts. - Using a halving strategy with dividing problems in real-life contexts. - Using multiplying facts as a strategy for dividing. E.g. $1 \times 8 = 8$ $8 \div 8 = 1$		
2 x 8 = 3 x 8 = 4 x 8 =	16 16 ÷ 8 = 2 24 24 ÷ 8 = 3	$32$ $+ 16$ $\frac{+ 16}{48}$
- Using the	e short written method of dividing.	I         5           4         6         20
- Finding fra	actions of amounts using multiplying a	and dividing facts e.g. $6 \times 4 = 24$ % of $24 = 4$ $4 \times 6 = 24$ % $\times 5 = \frac{5}{4}$ $24 \div 6 = 4$ $24 \div 4 = 6$

