

# Number: Multiplication and Division

MULTIPLICATION & DIVISION FACTS			
Year 1	Year 2	Year 3	Year 4
Count in multiples of twos, fives and tens (copied from Number and Place Value)	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward (copied from Number and Place Value)	Count from 0 in multiples of 4, 8, 50 and 100 (copied from Number and Place Value)	Count in multiples of 6, 7, 9, 25 and 1000 (copied from Number and Place Value)
	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	Recall multiplication and division facts for multiplication tables up to $12 \times 12$
MENTAL CALCULATION			
		Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods (appears also in Written Methods)	Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers

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	Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot		Recognise and use factor pairs and commutativity in mental calculations (appears also in Properties of Numbers)
WRITTEN CALCULATION			
Year 1	Year 2	Year 3	Year 4
	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals (=) signs	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods (appears also in Mental Methods)	Multiply two-digit and three-digit numbers by a one-digit number using formal written layout
PROPERTIES OF NUMBERS: MULTIPLES, FACTORS, PRIMES, SQUARE AND CUBE NUMBERS			
Year 1	Year 2	Year 3	Year 4
			Recognise and use factor pairs and commutativity in mental calculations (repeated)

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## INVERSE OPERATIONS, ESTIMATING AND CHECKING ANSWERS

		<i>Estimate the answer to a calculation and use inverse operations to check answers (copied from Addition and Subtraction)</i>	<i>Estimate and use inverse operations to check answers to a calculation (copied from Addition and Subtraction)</i>
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PROBLEM SOLVING					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher	Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which $n$ objects are connected to $m$ objects	Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as $n$ objects are connected to $m$ objects	Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes	Solve problems involving addition, subtraction, multiplication and division
				Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	
				Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates	<i>Solve problems involving similar shapes where the scale factor is known or can be found</i> (copied from Ratio and Proportion)