

<u>Multiplication and Division</u>



Foundation Stage	<u>Year l</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
	Solve one-step problems involving multiplication and division, by calculating the answer using pictorial representations Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects and pictorial representations with the support of the teacher Solve one-step problems involving multiplication and division, by calculating the answer using arrays with the support of the teacher	Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot 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 packs por the 3, 4 and 8 multiplication tables	Recall multiplication and division pacts for multiplication tables up to 12 × 12 (facts for 6,7,9,11,12 are new) Use place value, known and derived pacts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers Recognise and use factor pairs and commutativity in mental calculations	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 recognise and use square numbers and cube numbers, and the notation for squared () and cubed (3) multiply and divide numbers mentally drawing upon known facts multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	Use their knowledge of the order of operations to carry out calculations involving the four operations identify common factors, common multiples and prime numbers Perform mental calculations, including with mixed operations and large numbers
		Calculate mathematical statements por multiplication and division within the multiplication tables and write them using the multiplication	Wrike and calculake makhemakical stakemenks for mulkiplicakion and division using khe mulkiplicakion kables khak khey know, including for kwo-digik numbers kimes one-digik	Multiply two-digit and three-digit numbers by a one-digit number using formal written layout	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers	mulkiply mulki-digik numbers up ko 4 digiks by a two-digik whole number using khe pormal wriken mekhod op long mulkiplicakion





		1	T	1	1
	(×), division (÷) and equals (=)	numbers, using mental and			divide numbers up to 4 digits by a
	signs	progressing to formal written			two-digit whole number using the
		methods		divide numbers up to 4 digits by a	formal written method of long
				one-digit number using the formal	division, and interpret remainders
				written method of short division	as whole number remainders,
				and interpret remainders	fractions, or by rounding, as
				appropriately for the context	appropriate for the context
				appropriately per me comess	appropriate for the seman
					divide numbers up to 4 digits by a
					two-digit number using the formal
Calus arablems is also discontinuo		Calua arablama in aludina misaina	Calua analdana ianaluina anulkialuina	solve problems involving	written method of short division
Solve problems, including doubling,	Solve problems involving	Solve problems, including missing	Solve problems involving multiplying	multiplication and division	
halving and sharing.	multiplication and division, using	number problems, involving multiplication and division,	and adding, including using the	1	where appropriate, interpreting
	materials, arrays, repeated		distributive law to multiply two digit	including using their knowledge of	remainders according to the
	addition, mental methods, and	including positive integer scaling	numbers by one digit, integer	factors and multiples, squares and	context
	multiplication and division facts,	problems and correspondence	scaling problems and harder	cubes	l
	including problems in contexts.	problems in which n objects are	correspondence problems such as n		Use estimation to check answers to
		connected to m objects.	objects are connected to m objects.	solve problems involving addition,	calculations and determine, in the
				subtraction, multiplication and	context of a problem, an
				division and a combination of	appropriate degree of accuracy.
				these, including understanding the	
				meaning of the equals sign	Solve addition and subtraction
					multi-step problems in contexts,
				solve problems involving	deciding which operations and
				multiplication and division,	methods to use and why
				including scaling by simple	Ĭ
				fractions and problems involving	Solve problems involving addition,
				simple rates.	subtraction, multiplication and
				'	division