

Division Progression Document

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Using concrete objects to solve simple division problems e.g. I have 8 sweets, how many will each person get if I share them between 4 people?	Can recall and use division facts for the 2, 5 and 10 multiplication tables to solve simple problems, demonstrating an understanding of commutativity as necessary e	Recalls and uses division facts for the 3, 4 and 8 multiplication tables.	Recalls division facts for multiplication tables up to $12 \times 12$	Identifies multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.	Divides numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interprets remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.
Recalls most multiplication facts for the 10 times table and uses them to derive most division facts, counting in steps of 10 to answer simple questions.	Writes division statements for simple problems. e.g. make 7 groups from 35 blocks and write $35 \div 5 = 7$	Writes and calculates mathematical statements for 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.	Uses place value, known and derived facts to divide mentally, including: dividing by 1.	Knows and uses the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.	Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.
Recalls and uses halving facts for numbers up to half of 20 and other significant halves such as e.g. half of 100 is.	Can produce the 4 correct variations of an $\div$ number sentence e.g. $35 \div 7 = 5$ , $35 \div 5 = 7$ , $7 = 35 \div 5$ , $5 = 35 \div 7$ .	Solves problems, including missing number problems, involving division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.	Recognises and uses factor pairs and commutativity in mental calculations.	Establishes whether a number up to 100 is prime and recall prime numbers up to 19.	Identifies common factors, common multiples and prime numbers
	Use division facts for the 2s, 5s and 10s to solve simple problems. e.g. share 40 cherries between 10 and write $40 \div 10 = 4$ e.g. Altogether six 5p coins makes 30p.			Divides numbers mentally drawing upon known facts.	Uses their knowledge of the order of operations to carry out calculations involving the four operations.
	Recognises odd and even numbers and explains how you know a particular number is odd or even			Divides numbers up to 4 digits by a one-digit number using the formal written method of short division and interprets remainders appropriately for the context	Uses estimation to check answers to calculations and determines, in the context of a problem, an appropriate degree of accuracy.

	Use knowledge of halves to solve problems e.g. $16 \div 2 = 10$ , $6 \div 2 = 3$ .			Divides whole numbers and those involving decimals by 10, 100 and 1000.	
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				Recognises and uses square numbers and cube numbers, and the notation for squared (2) and cubed (3).	
				Solves problems involving division including using their knowledge of factors and multiples, squares and cubes.	
				Solves problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.	
				Solves problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	