Key Stage 2 Calculation Policy

Overview of Written Methods



Year 5

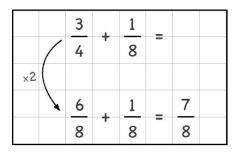
Compact column addition

Compact column addition to add pairs of 5-digit numbers, towers of several larger numbers and decimal numbers with up to 2 decimal places

Fractions

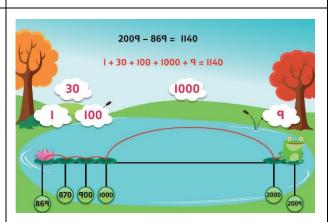
Addition

Add related fractions



Counting up

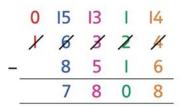
Find a difference between two numbers by counting up from the smaller to the larger



Subtraction

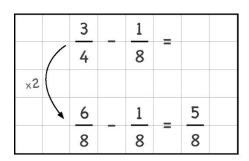
Compact column subtraction

Compact column subtraction for numbers with up to 5 digits



Fractions

Subtract related fractions



Overview of Written Methods

Ladder method

Use ladder method to multiply 3-digit and 4-digit numbers by 1-digit numbers

Short multiplication

Short multiplication of 2-, 3- and 4-digit numbers by 1-digit numbers (tens digits written small for carrying)

	4	3	5	
X			8	
3	4	² 8	40	

Long multiplication

Long multiplication of 2-, 3-and 4-digit numbers by 'teen' numbers (multiplied by ones digit first – as short multiplication)

		4	8	
	×	1	6	
	2	8	48	
+	4	8	0	
	1			
	7	6	8	

Fractions

Multiply fractions by 1-digit numbers

$$\frac{3}{4} \times 6 = \frac{18}{4}$$

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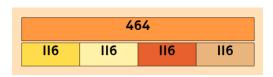
Short division

Short division of 3- and 4-digit numbers by 1-digit numbers, giving remainders as whole numbers or as fractions

	1	2	8
3	3	8	² 4

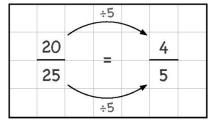
Fractions

Use bar modelling and written methods of division and multiplication to find unit and non-unit fractions of large amounts



$$\frac{1}{4}$$
 of 464 = 116 $\frac{3}{4}$ of 464 = 348

Find equivalent fractions and simplify fractions to their simplest form



Turn improper fractions into mixed numbers and vice versa

7	_	2	1	
3		2	3	

Division