

Year 6

Addition

Compact column addition

Compact column addition to add pairs of 7-digit numbers and decimal numbers with up to 2 decimal places.

	O	Tth	Hth
	0	5	7
+	0	4	3
	1	0	0
	1	1	

Fractions

Add related and unrelated fractions, including mixed numbers.

	$\frac{3}{4}$	+	$\frac{1}{8}$	=		
$\times 2$	$\frac{6}{8}$	+	$\frac{1}{8}$	=	$\frac{7}{8}$	

Subtraction

Compact column subtraction

Compact column subtraction for numbers with up to 7 digits, including decimals up to thousandths.

	O	Tth	Hth	Thth
	1 2	9 0	9 0	1 0
-	0	2	9	6
	1	7	0	4

Fractions

Subtract related and unrelated fractions, including mixed numbers.

	$\frac{3}{4}$	-	$\frac{1}{8}$	=		
$\times 2$	$\frac{6}{8}$	-	$\frac{1}{8}$	=	$\frac{5}{8}$	



Multiplication

Column multiplication

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

	H	T	O
	4	3	5
x			8
3	4	² 8	⁴ 0

		H	T	O	
			4	8	
		x	1	6	
		2	8	⁸	
	+	4	8	0	
		7	6	8	
		1			

3				18
4	x	6	=	4

Fractions

Multiply fractions by 1-digit numbers, including mixed numbers.

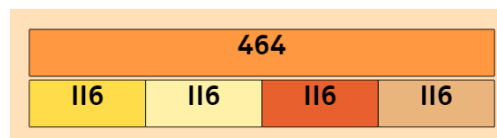
Short division

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

	1	2	8	$\frac{1}{3}$
3	3	8	² 5	

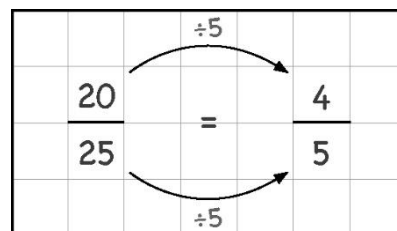
Fractions

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



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

Find equivalent fractions and simplify fractions to their simplest form.



Convert improper fractions into mixed numbers and vice versa.

$\frac{7}{3}$	=	2	$\frac{1}{3}$	
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