• Add several numbers of increasing complexity using columnar addition.

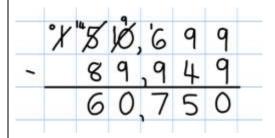
	2	3			6	
		9	٠	0	8	0
	5	9		7	7	0
+		1		3	0	0
	9	3	•	5	1	1
	2	١		2		

	8	١,	0	5	9
		3	6	6	8
	1	5.	3	0	1
+	2	0.	5	5	1
١	2	0	5	7	9
	1	J	1	١	

# **National Curriculum requirements:**

Add whole numbers with more than 4 digits, using the formal written method of columnar addition.

• Continue with compact columnar subtraction, including subtraction of decimals.



·Y	10	'5	1.0	3K	4	9	kg
					8	0	ka
	6	9	100	3	3	9	kg
	. <i>y</i>					36.08	1/10/15 · 1/4/1 9 36 · 08 0 69 · 339

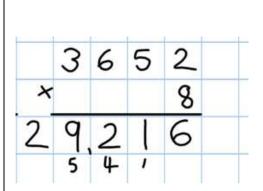
• Use estimation to check answers to calculations and to determine, in the context of a problem, levels of accuracy.

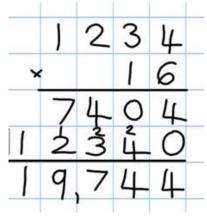
## **National Curriculum requirements:**

Subtract numbers with more than 4 digits.

# Y6

- Recall and use multiplication tables up to 12x12 (Including multiplying by 0 and 1).
- Continue to practise short multiplication.
- Continue to practise long multiplication.





- Multiply decimals using the grid method and progressing on to short multiplication.
- Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.

### Video clips:

Moving from grid method to a compact method

Reinforcing rapid times table recall

**Demonstration of long multiplication** 

## **National Curriculum requirements:**

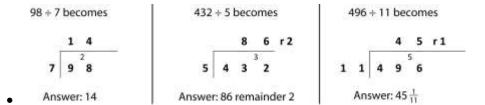
Multiply up to 4 digits by 2 digits using the formal written method of long multiplication.

Multiply numbers by 10,100, 1000 giving answers up to 3 decimal places.

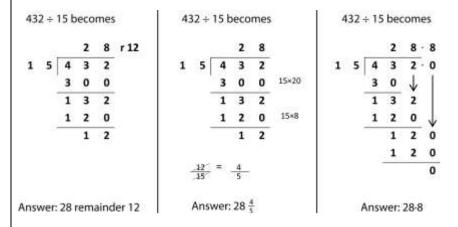
# **Key Stage 2 – Division**

# **Y6**

- Consolidate short division.
- Children should be able to interpret remainders as whole number remainders, fractions or by rounding, as appropriate for the context.



• Introduce long division.



**N.B:** The above examples are taken from the National Curriculum for Mathematics appendix.

## **National Curriculum requirements:**

Divide numbers up to 4 digits by a 2 digit number using the formal written method of short division where appropriate.

Divide up to 4 digits by a 2 digits whole number using the formal written method of long division.

# Calculation: Fractions

#### **ADDITION AND SUBTRACTION**

#### YEAR 6

Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions

## MULTIPICATION AND DIVISION

Multiply simple pairs of proper fractions, writing the answer in its simplest form e.g.  $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ 

Multiply one-digit numbers with up to two decimal places by whole numbers

Divide proper fractions by whole numbers

e.g.  $1/3 \div 2 = 1/6$